

# TOSHIBA



## HOME

Air Conditioners for Your Home



## ESTIA

Cost-Effective Heating:  
Air-to-Water Heat Pumps



## LIGHT BUSINESS BUSINESS

Air Conditioning Solutions  
for Business and Industry



## CHILLERS

Chillers and Heat Pumps  
for Business and Industry

# TOSHIBA PRODUCT CATALOG 2023/24

Air conditioning systems &  
heat pumps



# GENERAL TERMS AND CONDITIONS

## 1. General

Business transactions conducted by AIR-COND International GmbH, Haushamer Straße 2, 8054 Graz-Seiersberg, Austria, FN 568043h (hereinafter referred to as "AIR-COND", "we" or "us") shall be governed exclusively by the following General Terms and Conditions of Business and the purchase conditions individually agreed with our customers on a case-by-case basis. Our contractual partners are hereinafter each referred to as "Buyer". Contractual provisions deviating from these General Terms and Conditions of Business or supplementing these General Terms and Conditions of Business, in particular our Buyers' general terms and conditions of business or of purchase, shall be deemed an integral part of the contract only insofar as their validity is expressly confirmed by us in writing.

## 2. Order, Change of Order

a) Orders shall only be accepted by us if they contain clear information regarding the desired collection or delivery date (i.e., at least specification of the calendar week).  
b) Orders shall only be deemed to have been accepted by us if they have been confirmed by us in writing, by means of an order confirmation, or if delivery has been carried out. Any verbal or telephone orders or order amendments must be confirmed in writing.  
c) It shall be the responsibility of the Buyer to check the order confirmation for correctness immediately after receipt. In the absence of an immediate objection, a delivery in accordance with the order confirmation shall be deemed to constitute fulfillment of the contract.  
d) We reserve the right to cancel the order and to charge cancellation fees as stated in Item 2.e), should the ordered goods fail to be collected within 6 weeks from the collection date stated in the order confirmation, or if the delivery is not carried out for a period of 6 weeks after the delivery date stated in the order confirmation for reasons attributable to the Buyer. Any resulting claims for damages shall not be assertable against us.  
e) A complete or partial cancellation or amendment of an order by the Buyer shall only be permissible with our written confirmation and shall entitle us to charge the Buyer a (cancellation or amendment) fee in the amount of 10% of the net order value, in addition to the services already rendered and costs already incurred.

## 3. Pricing

a) Prices are based on the respective effective price list. We reserve the right to amend prices during the year.  
b) Prices are quoted net of any taxes, fees or duties in the stipulated currency and include standard packaging.  
c) The prices of goods collected by the Buyer, shall be ex ramp of our warehouse, though exclude loading. For deliveries, prices shall be free of delivery costs (from a net invoice value of EUR 850.00).  
d.) Special requests, such as expedited or a special mode of delivery, special packaging, etc. can be accommodated, but any associated additional costs shall be borne by the Buyer. Packaging shall not be returnable.  
e) We reserve the right to adjust our prices, even for existing orders, should supplier prices on which an order is based change, in particular due to exchange rate fluctuations and / or changes in customs duties, taxes and freight costs.

## 4. Terms of Payment

a) In the absence of other agreements, our terms of payment shall be based on the individual purchase conditions.  
b) We reserve the right to submit invoices exclusively by e-mail. Should a conveyance by post be desired, we must be notified of this separately in writing.  
c) In the event of default in payment on the part of the Buyer, we shall be entitled to exercise a right of retention for all further performance arising from the business relationship until the default in question has been rectified, and to demand payment in advance for all orders not yet fulfilled.  
d) In the event of default, the Buyer shall pay interest on the overdue amount at a per annum rate of 9.2 percentage points above the base lending rate. The entitlement to claim greater default damages shall remain unaffected by this provision.

## 5. Delivery

a) Delivery times specified by us shall be only approximate and non-binding. We shall, nonetheless, endeavor to comply with the appointed delivery dates. No claim shall exist for compliance with a specific delivery time. Delays in delivery shall, consequently, not give rise to claims for damages in particular, nor entitle the Buyer to terminate the contract.  
b) Claims for contractual penalties on the part of the Buyer shall not be accepted by us under any circumstances.  
c) Unless otherwise agreed, partial deliveries shall be permissible.  
d) Incoterms are valid in the 2020 version.  
e) Failing provision to us of specific instructions, delivery shall be made to the address known to us. Unless instructed otherwise by the Buyer, the choice of transport route and means of transport shall be made to the best of our discretion and without liability for the cheapest and fastest shipment.  
f) Goods shall be stored at the expense and risk of the Buyer should their delivery be delayed at the request or due to the fault of the Buyer.  
g) No costs arising from incorrect deliveries shall be assertable against us.

## 6. Acceptance of goods, transfer of risk, transport damages

a) When goods are collected by the Buyer, unless agreed otherwise the associated risk shall pass to the Buyer as soon as the goods have vacated the ramp on which they were readied for said collection. Loading risks are, thereby, assumed by the Buyer. For deliveries, risk shall pass to the Buyer upon acceptance of the goods.  
b) It shall be the Buyer's responsibility to check the provided goods in respect of their conformity with the order confirmation and for damage. Any damage to the packaging or to the goods themselves must be recorded on the delivery note and immediately reported to the shipping company and to us. The Buyer shall be obliged to notify us in a timely manner using the form available online for this purpose, of any defects that were concealed by the packaging, though no later than 7 days after the collection / delivery date, or 10 days after the collection / delivery date if the Buyer is located outside Austria, failing which the insurance claim / liability shall lapse. We shall not be held liable for any damages, shortfalls etc. claimed at a later date. A non-timely complaint as defined above shall result in the loss of all claims arising from a possible defective or erroneous delivery.  
c) We shall be entitled to charge the Buyer for any costs incurred by us due to default in acceptance, in particular the costs of storage.  
d) If a carrier is granted a storage permit, the risk of loss of and damage to the goods shall pass to the Buyer upon storage of the goods at the specified location as instructed. We shall not be liable for any damage or defects occurring thereafter.

## 7. Returns

a) Return and exchange shipments of goods shall require our express written consent.  
b) A return of duly delivered goods for credit shall only be accepted within a period of 2 months from the invoice date, in the original packaging and in their original condition.  
c) The goods shall be returned to a location to be stipulated by us at the expense and risk of the Buyer.  
d) In the case that goods are returned, the sales price shall be refunded in the form of credits, with a deduction of 15% processing costs from the net invoice amount.  
e) Goods returned contrary to agreement shall be rejected by us and returned to the Buyer at the latter's expense and risk.

## 8. Retention of title

Goods delivered or otherwise surrendered by us shall remain in our ownership until full payment has been made.

## 9. Material guarantee and Warranty

a) We grant a material guarantee to our purchasers, though not to third parties, in accordance with the following provisions. Said material guarantee under warranty law comprises exclusively the promise that our goods will remain free of defects for a period of 36 months from the date of their delivery. Claims under said material guarantee must be asserted by the Buyer within 2 months from the date of discovery of the defect by submitting a fully completed guarantee claim form and, if requested, by returning the defective part at the Buyer's own expense.  
b) A material guarantee of 12 months from the date of delivery shall apply to spare parts, in the absence of more favourable legal regulations benefitting the Buyer.  
c) The material guarantee solely covers the provision of spare parts. It does not include compensation for other claims, in particular those arising from recall, installation and removal costs, transport costs, labour costs, refrigerants or travel costs.  
d) Our material guarantee is subject to the conditions of proper installation by a specialist company in accordance with TOSHIBA installation guidelines, compliance with TOSHIBA operating conditions, correct sizing, as well as regular maintenance in accordance with TOSHIBA maintenance instructions. Failure to comply with these conditions shall void any material guarantee.  
e) For VRF products, an extended material guarantee is granted for a period of 60 months from delivery, subject to completion and submission to AIR-COND of a commissioning protocol within a period of 36 months from delivery, though no later than 2 months after product commissioning. The granting of said extended material guarantee shall be separately confirmed by us by in the form of a certificate.  
f) An extended 60-month material guarantee is granted for ESTIA compressors from delivery.  
g) Guarantee claims can only be submitted online ([www.toshiba-aircondition.com](http://www.toshiba-aircondition.com)) in the AIR-COND partner area using the form provided for this purpose.  
h) Goods shall be treated as movable property for the purposes of statutory warranty claims even if installed within a building. The Buyer shall notify us of any defects immediately, in detail and in writing. § 933b ABGB and § 924 sentence 2 ABGB shall not apply to our contractual relationship with the Buyer.

## 10. Proof of export

a) In case of transport of the goods from Austria to other EU member states, the Buyer undertakes to send us by mail or e-mail the provided form "statement of delivery" filled out and signed within 10 days after collection of the goods. In addition, we reserve the right to request further proof of transport, if this has not already been provided at the time of collection of the goods, as follows: in the event of collection by the Buyer's own truck by means of a "Declaration regarding the transport of goods from one EU member state to another" in accordance with Article 7 VAT Act together with a copy of the identity card of the person collecting the goods and a power of attorney to collect the goods, or in the event of collection by a commissioned forwarding agent by means of proof of dispatch (e.g. consignment note). Failure to comply with these stipulations shall result in the Buyer being charged 20% VAT.  
b) In case of transport of the goods from Austria to non-EU member states, the Buyer furthermore undertakes to send us within 10 days following goods collection a proof of export (in particular by providing a "Certificate of export of the goods from the EU") by mail. Failure to comply with these stipulations shall result in the Buyer being charged 20% VAT, customs costs as well as customs penalties.

## 11. Claims for damages

We shall, in all cases, only be liable for damages in the event of intent or gross negligence. In the case of minor negligence, we shall only be liable for personal injury. All claims for damages shall, in any event, become time-barred within 6 months from the date on which the Buyer became aware of the damage and the damaging party.  
We shall not be liable for indirect damage, loss of profit, loss of interest, failure to realize savings, consequential and pecuniary damage, damage arising from third-party claims, or for the loss of data and programs and their recovery. The Buyer shall indemnify and hold us harmless against product liability claims of third parties if the relevant basis for the claim (in particular due to the representation of the goods) was created by its conduct or that of its contractual partners. A product liability recourse on the part of the Buyer against us is excluded; the Buyer shall directly address the manufacturer of the defective goods, whose identity we will disclose upon request.  
Should, in any case whatsoever, a contractual penalty has been agreed upon individually to our detriment, said penalty shall be subject to judicial moderation. The assertion by the Buyer of any damages in excess of a contractual penalty shall, in any case, be excluded.

## 12. Set-off

An offsetting by the Buyer of counterclaims of any kind whatsoever against our claims shall be excluded.

## 13. Place of jurisdiction and choice of law

The exclusive jurisdiction of the Regional Court for Civil Law Matters Graz is, hereby agreed for the resolution of all disputes arising from a contract between us and the Buyer – including those relating to its validity or invalidity. Said contract shall be governed exclusively by the laws of the Republic of Austria, excluding conflict of law rules and the provisions of the UN Convention on Contracts for the International Sale of Goods.

**Issue: March 2023**

**Validity of the price list: 1 April 2023 to 31 March 2024**

**The general terms and conditions of AIR-COND International GmbH apply.**

Subject to change without prior notice. All information, type designations and illustrations are subject to change, printing and typesetting errors. For detailed product information please consult the data sheets which are available on our website: [www.toshiba-aircondition.com](http://www.toshiba-aircondition.com). Technical document for specialist retailers



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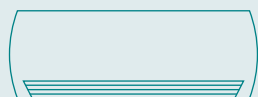


A COMFORTABLE CLIMATE  
IN YOUR HOME

# OVERVIEW OF HOME INDOOR UNITS

- › Top design and high efficiency up to A+++
- › Indoor units in different designs for all applications
- › Different air filter technologies cover all needs

## HIGH-WALL UNITS



### SEIYA

Sizes: 7, 10, 13, 16, 18, 24

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### SHORAI Edge

Sizes: 7, 10, 13, 16, 18, 22, 24

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### SHORAI Edge Black & White

Sizes: 7, 10, 13, 16, 18, 22, 24

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### HAORI

Sizes: 10, 13, 16

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### DAISEIKAI 9

Sizes: 10, 13, 16

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## CONSOLE UNITS

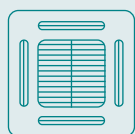


### Console

Sizes: 10, 13, 18

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## CASSETTE UNITS

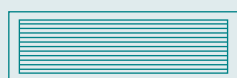


### 60x60 slim cassette

Sizes: 10, 13, 16

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## DUCT UNITS



### Duct unit

Sizes: 10, 13, 16, 22, 24

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# PRODUCT OVERVIEW

		DAISEIKAI 9	SEIYA	SHORAI EDGE	SHORAI EDGE BLACK & WHITE	HAORI	CONSOLE	DUCT UNIT	60x60 SLIM CASSETTE
Type	SINGLE-split usage								
	MULTI-split usage								
Functions	Cooling	●	●	●	●	●	●	●	●
	Heating	●	●	●	●	●	●	●	●
Technology	R32 refrigerant	●	●	●	●	●	●	●	●
	Hybrid inverter control	●	●	●	●	●	●	●	●
	Rotary compressor		07 – 18	07/10/13/16	07/10/13/16	●	10/13		
	Twin-rotary compressor	●	24	18/22/24	18/22/24		18	●	●
Air quality	Self-cleaning function	●	●	●	●	●	●	●	●
	Dust filter	●	●	●	●	●	●	○	●
	IAQ filter	○	○	○	○	○	●		
	Active carbon-catechin filter	○	○	○	○	○	○		
	Ultra pure filter	○	○	●	●	●	○		
	Ultra fresh filter	○	●	○	○	○	○		
	Plasma filter / ionizer	●							
	Ozone air purifier / ionizer					●			
Features	HI POWER	●	●	●	●	●	●	●	●
	Auto diagnostics	●	●	●	●	●	●	●	●
	Eco mode	●	●	●	●	●	●	●	
	Quiet mode	●	●	●	●	●	●	●	●
	Silent mode	●	●	●	●	●	●		
	Comfort sleep	●	●	●	●		●	●	●
	Power selection	●		●	●	●			
	Floor mode						●		
	Preset mode	●	●	●	●		●	●	●
	One-touch mode							●	
	TOSHIBA WiFi	○	○	○	●	●	○		
	Weekly timer	●	○	●	○	○	●	○	○
	Timer		●			●		●	●
	Automatic restart	●	●	●	●	●	●	●	●
	8°C frost protection	●	●	●	●	●	●		
	Fireplace mode	●		●	●	●	●		
	Swing mode	●	●	●	●	●	●		●
	3D airflow	●		18/22/24	18/22/24	●			
Presence sensor								○	

● Standard ○ Optional



# HAORI

Design without limits.



## SEIYA / Set



- BASIC Line compact inverter
- A++ for cooling & heating
- Dust filter and ultra fresh filter
- Optional WiFi module: can be integrated into indoor unit
- Energy monitoring: for single-split systems & multi NEXT



SEIYA

INDOOR UNIT OUTDOOR UNIT			RAS-B07E2KVG-E RAS-07E2AVG-E	RAS-B10E2KVG-E RAS-10E2AVG-E	RAS-B13E2KVG-E RAS-13E2AVG-E	RAS-B16E2KVG-E RAS-16E2AVG-E	RAS-18E2KVG-E RAS-18E2AVG-E	RAS-24E2KVG-E RAS-24E2AVG-E
Cooling capacity	kW	❄	2,00	2,50	3,30	4,20	5,00	6,50
Cooling range (min.-max.)	kW	❄	0,76 - 2,60	0,80 - 3,00	1,20 - 3,60	1,40 - 4,70	1,45 - 5,50	1,70 - 7,20
Power consumption (min./nom./max.)	kW	❄	0,20/0,53/ 0,83	0,20/0,70/ 1,00	0,25/1,10/ 1,25	0,34/1,27/ 1,60	0,34/1,50/ 1,80	0,41/2,25/ 2,60
Energy efficiency EER	W/W	❄	3,77	3,57	3,00	3,31	3,33	2,89
Energy efficiency SEER		❄	6,90	7,00	7,00	7,00	7,00	6,90
Energy efficiency class		❄	A++	A++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW	❄	2,50	3,20	3,60	5,00	5,40	7,00
Heating range (min.-max.)	kW	❄	0,82 - 3,30	0,95 - 3,90	0,97 - 4,50	1,30 - 6,00	1,35 - 6,00	1,50 - 8,10
Power consumption (min./nom./max.)	kW	❄	0,16/0,64/ 0,94	0,18/0,86/ 1,11	0,18/0,92/ 1,25	0,24/1,34/ 1,70	0,26/1,50/ 1,80	0,29/2,10/ 2,55
Energy efficiency COP	W/W	❄	3,91	3,72	3,91	3,73	3,60	3,33
Energy efficiency SCOP		❄	4,60	4,60	4,60	4,60	4,40	4,30
Energy efficiency class		❄	A++	A++	A++	A++	A+	A+
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A		10	10	10	10	16	16
<b>Set price</b>	<b>€</b>		<b>1.210,-</b>	<b>1.305,-</b>	<b>1.415,-</b>	<b>1.840,-</b>	<b>2.195,-</b>	<b>2.670,-</b>

INDOOR UNIT			RAS-B07E2KVG-E	RAS-B10E2KVG-E	RAS-B13E2KVG-E	RAS-B16E2KVG-E	RAS-18E2KVG-E	RAS-24E2KVG-E
Airflow	m³/h		500	510	560	760	840	1070
Sound pressure level (low/med/high)	dB(A)	❄	19/-/38	19/-/39	20/-/41	21/-/43	26/-/47	29/-/48
Sound pressure level (low/med/high)	dB(A)	❄	19/-/38	20/-/39	20/-/42	22/-/43	26/-/48	29/-/48
Dimensions (HxWxD)	mm		288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
Weight	kg		9	9	9	9	9	15
<b>Price</b>	<b>€</b>		<b>410,-</b>	<b>415,-</b>	<b>420,-</b>	<b>445,-</b>	<b>535,-</b>	<b>655,-</b>

OUTDOOR UNIT			RAS-07E2AVG-E	RAS-10E2AVG-E	RAS-13E2AVG-E	RAS-16E2AVG-E	RAS-18E2AVG-E	RAS-24E2AVG-E
Sound pressure level (low/med/high)	dB(A)	❄	--/--/47	--/--/47	--/--/48	--/--/50	--/--/50	--/--/54
Sound pressure level (low/med/high)	dB(A)	❄	--/--/49	--/--/49	--/--/49	--/--/51	--/--/51	--/--/54
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2	2	2	2
Pipe length (max.)	m		15	15	15	20	20	20
Height difference (max.)	m		15	15	15	15	15	15
Compressor type			Rotary	Rotary	Rotary	Rotary	Rotary	Twin Rotary
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,34	0,49	0,54	0,68	0,93	1,18
Dimensions (HxWxD)	mm		530 x 660 x 240	530 x 660 x 240	530 x 660 x 240	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg		21	22	22	30	34	38
<b>Price</b>	<b>€</b>		<b>800,-</b>	<b>890,-</b>	<b>995,-</b>	<b>1.395,-</b>	<b>1.660,-</b>	<b>2.015,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RB-RXS33-E</b>	Infrared remote control including weekly timer and 8°C frost protection function		<b>110,-</b>
<b>RB-RXS34-E</b>	HAORI design infrared remote control, black, with magnetic holder		<b>125,-</b>
<b>RB-N105S-G</b>	TOSHIBA Home AC control - wireless WiFi control / Seiya, Shorai Edge, Daiseikai 9		<b>120,-</b>
<b>818F0036</b>	IAQ filter strips		<b>49,-</b>
<b>818F0023</b>	Active carbon-catechin filter strips		<b>31,-</b>
<b>818F0072</b>	Ultra-Fresh filter strips		<b>36,-</b>
<b>TCB-IFCB5-PE</b>	External on/off PCB, window contact module		<b>75,-</b>
<b>TCB-PX100-PE</b>	Casing for outdoor installation of window contact module for high-wall units		<b>50,-</b>



# SHORAI Edge / Set



- > HIGH Line allrounder with Careflow
- > A+++ for cooling & heating
- > Dust filter and ultra pure filter
- > WiFi module can be integrated into the indoor unit



HOME / RAS

INDOOR UNIT			RAS-B07J2KVSG-E	RAS-B10J2KVSG-E	RAS-B13J2KVSG-E	RAS-B16J2KVSG-E	RAS-18J2KVSG-E	RAS-B22J2KVSG-E	RAS-B24J2KVSG-E
OUTDOOR UNIT			RAS-07J2AVSG-E	RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E	RAS-22J2AVSG-E	RAS-24J2AVSG-E
Cooling capacity	kW	❄️	2,00	2,50	3,50	4,60	5,00	6,10	7,00
Cooling range (min.-max.)	kW	❄️	0,89 - 2,90	0,89 - 3,20	1,00 - 4,10	1,20 - 5,30	1,20 - 6,00	1,39 - 6,70	1,70 - 7,70
Power consumption (min./nom./max.)	kW	❄️	0,19/0,39/ 0,67	0,19/0,54/ 0,79	0,25/0,90/ 1,12	0,34/1,35/ 1,72	0,35/1,42/ 2,00	0,36/1,99/ 2,20	0,38/2,25/ 2,55
Energy efficiency EER	W/W	❄️	5,13	4,63	3,89	3,41	3,52	3,07	3,11
Energy efficiency SEER		❄️	8,50	8,60	8,60	7,80	7,80	7,30	6,30
Energy efficiency class		❄️	A+++	A+++	A+++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄️	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW	🔥	2,50	3,20	4,20	5,50	6,00	7,00	8,00
Heating range (min.-max.)	kW	🔥	0,90 - 3,60	0,90 - 4,80	1,00 - 5,30	1,10 - 6,50	1,10 - 6,50	1,15 - 7,50	1,70 - 8,80
Power consumption (min./nom./max.)	kW	🔥	0,16/0,50/ 0,80	0,16/0,70/ 1,23	0,20/1,08/ 1,55	0,24/1,52/ 1,90	0,25/1,59/ 1,75	0,26/1,88/ 2,10	0,29/2,35/ 2,75
Energy efficiency COP	W/W	🔥	5,00	4,57	3,89	3,62	3,77	3,72	3,40
Energy efficiency SCOP		🔥	5,10	5,10	5,10	4,60	4,60	4,60	4,10
Energy efficiency class		🔥	A+++	A+++	A+++	A++	A++	A++	A+
Outdoor temperature operating range (min.-max.)	°C	🔥	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A		10	10	10	10	16	16	16
<b>Set price</b>	<b>€</b>		<b>1.450,-</b>	<b>1.510,-</b>	<b>1.755,-</b>	<b>2.065,-</b>	<b>2.375,-</b>	<b>2.725,-</b>	<b>3.165,-</b>

INDOOR UNIT			RAS-B07J2KVSG-E	RAS-B10J2KVSG-E	RAS-B13J2KVSG-E	RAS-B16J2KVSG-E	RAS-18J2KVSG-E	RAS-B22J2KVSG-E	RAS-B24J2KVSG-E
Airflow	m³/h		660	312-660	342-732	360-768	990	1032	1122
Sound pressure level (low/med/high)	dB(A)	❄️	19/22/40	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	28/35/47
Sound pressure level (low/med/high)	dB(A)	🔥	19/23/40	19/23/40	19/23/43	22/26/44	26/31/44	27/34/46	28/35/48
Dimensions (HxWxD)	mm		293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245
Weight	kg		10	10	10	10	14	14	14
<b>Price</b>	<b>€</b>		<b>565,-</b>	<b>570,-</b>	<b>615,-</b>	<b>645,-</b>	<b>665,-</b>	<b>765,-</b>	<b>890,-</b>

OUTDOOR UNIT			RAS-07J2AVSG-E	RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E	RAS-22J2AVSG-E	RAS-24J2AVSG-E
Sound pressure level (low/med/high)	dB(A)	❄️	36/43/44	37/43/44	39/45/46	40/47/48	42/47/48	43/48/49	43/49/50
Sound pressure level (low/med/high)	dB(A)	🔥	38/44/46	39/45/46	43/46/48	43/49/50	44/49/50	46/50/51	46/52/52
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2	2	2	2	2
Pipe length (max.)	m		20	20	20	20	20	20	25
Height difference (max.)	m		12	12	12	12	12	12	15
Compressor type			Rotary	Rotary	Rotary	Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,55	0,55	0,80	0,80	1,10	1,10	1,14
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300
Weight	kg		26	26	30	33	34	34	42
<b>Price</b>	<b>€</b>		<b>885,-</b>	<b>940,-</b>	<b>1.140,-</b>	<b>1.420,-</b>	<b>1.710,-</b>	<b>1.960,-</b>	<b>2.275,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RB-N105S-G</b>	TOSHIBA Home AC control - wireless WiFi control / Seiya, Shorai Edge, Daiseikai 9		<b>120,-</b>
<b>818F0036</b>	IAQ filter strips		<b>49,-</b>
<b>818F0023</b>	Active carbon-catechin filter strips		<b>31,-</b>
<b>818F0072</b>	Ultra-Fresh filter strips		<b>36,-</b>
<b>TCB-IFCB5-PE</b>	External on/off PCB, window contact module		<b>75,-</b>
<b>TCB-PX100-PE</b>	Casing for outdoor installation of window contact module for high-wall units		<b>50,-</b>

Product change from E to E1 during the year. You will find all the control options on page 29.

## SHORAI Edge Black &amp; White / Set



- HIGH Line allrounder with design and function update
- Choice of design: BLACK or WHITE indoor unit
- High efficiency: Energy class A+++ / Clean air: dust filter & ultra pure filter
- APP control: WiFi module integrated as standard
- Transparent power consumption: Energy monitoring: for single-split systems & multi NEXT



INDOOR UNIT WHITE			RAS-B07G3KVS-G-E	RAS-B10G3KVS-G-E	RAS-B13G3KVS-G-E	RAS-B16G3KVS-G-E	RAS-B18G3KVS-G-E	RAS-B22G3KVS-G-E	RAS-B24G3KVS-G-E
OUTDOOR UNIT			RAS-07J2AVSG-E1	RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E1	RAS-22J2AVSG-E1	RAS-24J2AVSG-E1
INDOOR UNIT BLACK			RAS-B07G3KVSGB-E	RAS-B10G3KVSGB-E	RAS-B13G3KVSGB-E	RAS-B16G3KVSGB-E	RAS-B18G3KVSGB-E	RAS-B22G3KVSGB-E	RAS-B24G3KVSGB-E
OUTDOOR UNIT			RAS-07J2AVSG-E1	RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E1	RAS-22J2AVSG-E1	RAS-24J2AVSG-E1
Cooling capacity	kW ❄️		2,00	2,50	3,50	4,60	5,00	6,10	7,00
Cooling range (min.-max.)	kW ❄️		0,89 - 2,90	0,89 - 3,20	1,00 - 4,10	1,20 - 5,30	1,20 - 6,00	1,39 - 6,70	1,70 - 7,70
Power consumption (min./nom./max.)	kW ❄️		0,19/0,39/ 0,67	0,19/0,54/ 0,79	0,25/0,90/ 1,12	0,34/1,35/ 1,72	0,35/1,42/ 2,00	0,36/1,99/ 2,20	0,38/2,25/ 2,55
Energy efficiency EER	W/W ❄️		5,13	4,63	3,89	3,41	3,52	3,07	3,11
Energy efficiency SEER	❄️		8,50	8,60	8,60	7,80	7,80	7,30	6,30
Energy efficiency class	❄️		A+++	A+++	A+++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C ❄️		-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46	-15/+46
Heating capacity	kW 🔥		2,50	3,20	4,20	5,50	6,00	7,00	8,00
Heating range (min.-max.)	kW 🔥		0,90 - 3,60	0,90 - 4,80	1,00 - 5,30	1,10 - 6,50	1,10 - 6,50	1,15 - 7,50	1,70 - 8,80
Power consumption (min./nom./max.)	kW 🔥		0,16/0,50/ 0,80	0,16/0,70/ 1,23	0,20/1,08/ 1,55	0,24/1,52/ 1,90	0,25/1,59/ 1,75	0,26/1,88/ 2,10	0,29/2,35/ 2,75
Energy efficiency COP	W/W 🔥		5,00	4,57	3,89	3,62	3,77	3,72	3,40
Energy efficiency SCOP	🔥		5,10	5,10	5,10	4,60	4,60	4,60	4,10
Energy efficiency class	🔥		A+++	A+++	A+++	A++	A++	A++	A+
Outdoor temperature operating range (min.-max.)	°C 🔥		-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A		10	10	10	10	16	16	16
<b>Set price WHITE</b>	€		<b>1.605,-</b>	<b>1.650,-</b>	<b>1.900,-</b>	<b>2.240,-</b>	<b>2.610,-</b>	<b>2.990,-</b>	<b>3.480,-</b>
<b>Set price BLACK</b>	€		<b>1.690,-</b>	<b>1.735,-</b>	<b>1.990,-</b>	<b>2.360,-</b>	<b>2.745,-</b>	<b>3.140,-</b>	<b>3.670,-</b>

INDOOR UNIT WHITE			RAS-B07G3KVS-G-E	RAS-B10G3KVS-G-E	RAS-B13G3KVS-G-E	RAS-B16G3KVS-G-E	RAS-B18G3KVS-G-E	RAS-B22G3KVS-G-E	RAS-B24G3KVS-G-E
INDOOR UNIT BLACK			RAS-B07G3KVSGB-E	RAS-B10G3KVSGB-E	RAS-B13G3KVSGB-E	RAS-B16G3KVSGB-E	RAS-B18G3KVSGB-E	RAS-B22G3KVSGB-E	RAS-B24G3KVSGB-E
Airflow	m³/h		312-660	312-660	342-732	360-768	990	1032	1122
Sound pressure level (low/med/high)	dB(A) ❄️		19/22/40	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	28/35/47
Sound pressure level (low/med/high)	dB(A) 🔥		19/23/40	19/-/40	19/23/43	22/26/44	26/31/44	27/34/46	28/35/48
Dimensions (HxWxD)	mm		293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245
Weight	kg		10	10	10	10	14	14	14
<b>Price WHITE</b>	€		<b>705,-</b>	<b>710,-</b>	<b>760,-</b>	<b>820,-</b>	<b>865,-</b>	<b>990,-</b>	<b>1.160,-</b>
<b>Price BLACK</b>	€		<b>790,-</b>	<b>795,-</b>	<b>850,-</b>	<b>940,-</b>	<b>1.000,-</b>	<b>1.140,-</b>	<b>1.350,-</b>

OUTDOOR UNIT			RAS-07J2AVSG-E1	RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-16J2AVSG-E1	RAS-18J2AVSG-E1	RAS-22J2AVSG-E1	RAS-24J2AVSG-E1
Sound pressure level (low/med/high)	dB(A) ❄️		36/43/44	36/43/44	39/45/46	40/47/48	42/47/48	43/48/49	43/49/50
Sound pressure level (low/med/high)	dB(A) 🔥		38/44/46	38/44/46	43/46/48	43/49/50	44/49/50	46/50/51	46/52/52
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2	2	2	2	2
Pipe length (max.)	m		20	20	20	20	20	20	25
Height difference (max.)	m		12	12	12	12	12	12	15
Compressor type			Rotary	Rotary	Rotary	Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,55	0,55	0,80	0,80	1,10	1,10	1,14
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300
Weight	kg		26	26	30	33	34	34	42
<b>Price WHITE</b>	€		<b>900,-</b>	<b>940,-</b>	<b>1.140,-</b>	<b>1.420,-</b>	<b>1.745,-</b>	<b>2.000,-</b>	<b>2.320,-</b>
<b>Price BLACK</b>	€		<b>900,-</b>	<b>940,-</b>	<b>1.140,-</b>	<b>1.420,-</b>	<b>1.745,-</b>	<b>2.000,-</b>	<b>2.320,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>818F0036</b>	IAQ filter strips		<b>49,-</b>
<b>818F0023</b>	Active carbon-catechin filter strips		<b>31,-</b>
<b>818F0072</b>	Ultra-Fresh filter strips		<b>36,-</b>
<b>TCB-IFCB5-PE</b>	External on/off PCB, window contact module		<b>75,-</b>
<b>TCB-PX100-PE</b>	Casing for outdoor installation of window contact module for high-wall units		<b>50,-</b>







## HAORI / Set



- › DESIGN Line with innovative textile cover
- › A+++ for cooling & heating
- › Dust filter, ozone air purifier, and ultra pure filter
- › WiFi module integrated as standard
- › Energy monitoring: for single-split systems & multi NEXT



INDOOR UNIT		RAS-B10N4KVRG-E		RAS-B13N4KVRG-E		RAS-B16N4KVRG-E	
OUTDOOR UNIT		RAS-10J2AVSG-E1		RAS-13J2AVSG-E1		RAS-16J2AVSG-E1	
Cooling capacity	kW ❄️	2,50		3,50		4,60	
Cooling range (min.-max.)	kW ❄️	0,89 - 3,20		1,00 - 4,10		1,20 - 5,30	
Power consumption (min./nom./max.)	kW ❄️	0,19/0,54/0,79		0,25/0,80/1,12		0,34/1,35/1,72	
Energy efficiency EER	W/W ❄️	4,63		4,38		3,41	
Energy efficiency SEER	❄️	8,60		8,70		7,80	
Energy efficiency class	❄️	A+++		A+++		A++	
Outdoor temperature operating range (min.-max.)	°C ❄️	-15/+46		-15/+46		-15/+46	
Heating capacity	kW ❄️	3,20		4,20		5,50	
Heating range (min.-max.)	kW ❄️	0,90 - 4,70		1,00 - 5,30		1,10 - 6,30	
Power consumption (min./nom./max.)	kW ❄️	0,18/0,74/1,23		0,20/1,08/1,55		0,30/1,52/1,90	
Energy efficiency COP	W/W ❄️	4,32		3,89		3,62	
Energy efficiency SCOP	❄️	5,10		5,10		4,60	
Energy efficiency class	❄️	A+++		A+++		A++	
Outdoor temperature operating range (min.-max.)	°C ❄️	-15/+24		-15/+24		-15/+24	
Power supply	V/Ph+N/Hz	220-240/1/50		220-240/1/50		220-240/1/50	
Recommended fusing	A	10		10		10	
<b>Set price</b>	€	<b>1.835,-</b>		<b>2.115,-</b>		<b>2.455,-</b>	

INDOOR UNIT		RAS-B10N4KVRG-E		RAS-B13N4KVRG-E		RAS-B16N4KVRG-E	
Airflow	m³/h	300-600		320-670		340-730	
Sound pressure level (low/med/high)	dB(A) ❄️	19/-/41		19/-/43		21/-/45	
Sound pressure level (low/med/high)	dB(A) ❄️	19/-/41		19/-/43		22/-/45	
Dimensions (HxWxD)	mm	300 x 987 x 210		300 x 987 x 210		300 x 987 x 210	
Weight	kg	11		11		12	
<b>Price</b>	€	<b>895,-</b>		<b>975,-</b>		<b>1.035,-</b>	

OUTDOOR UNIT		RAS-10J2AVSG-E1		RAS-13J2AVSG-E1		RAS-16J2AVSG-E1	
Sound pressure level (low/med/high)	dB(A) ❄️	44		46		48	
Sound pressure level (low/med/high)	dB(A) ❄️	46		48		50	
Suction gas pipe diameter	mm (inch)	9,5 (3/8)		9,5 (3/8)		12,7 (½)	
Liquid pipe diameter	mm (inch)	6,3 (¼)		6,3 (¼)		6,3 (¼)	
Pipe length (min.)	m	2		2		2	
Pipe length (max.)	m	20		20		20	
Height difference (max.)	m	12		12		12	
Compressor type		Rotary		Rotary		Rotary	
Refrigerant		R32		R32		R32	
Refrigerant charge	kg	0,55		0,80		0,80	
Dimensions (HxWxD)	mm	550 x 780 x 290		550 x 780 x 290		550 x 780 x 290	
Weight	kg	26		30		33	
<b>Price</b>	€	<b>940,-</b>		<b>1.140,-</b>		<b>1.420,-</b>	

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	HAORI design infrared remote control, black, with magnetic holder	✓	
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function		110,-
RB-I4101-E	Fabric cover Dark Gray enclosed	✓	
RB-I4102-E	Fabric cover Light Gray enclosed	✓	
RB-I4103-E	Fabric cover Bluish Gray		130,-
RB-I4104-E	Fabric cover Gray Beige		130,-
RB-I4105-E	Fabric cover Dark Brown		130,-
RB-I4106-E	Fabric cover Emerald Blue		130,-
818F0050	Ultra-pure 2.5 filter strips	✓	
818F0023	Active carbon-catechin filter strips		31,-
818F0036	IAQ filter strips		49,-
818F0072	Ultra-Fresh filter strips		36,-
TCB-IFCB5-PE	External on/off PCB, window contact module		75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units		50,-

# DAISEIKAI 9 / Set



- > PREMIUM line with 3D airflow
- > A+++ for cooling & heating
- > Dust filter, plasma filter with ionizer
- > WiFi module can be integrated into the indoor unit



DAISEIKAI

HOME / RAS

INDOOR UNIT OUTDOOR UNIT			RAS-10PKVPG-E RAS-10PAVPG-E	RAS-13PKVPG-E RAS-13PAVPG-E	RAS-16PKVPG-E RAS-16PAVPG-E
Cooling capacity	kW	❄️	2,50	3,50	4,50
Cooling range (min.-max.)	kW	❄️	0,80 - 3,50	0,90 - 4,10	0,90 - 5,10
Power consumption (min./nom./max.)	kW	❄️	0,15/0,45/0,82	0,18/0,75/1,00	0,18/1,08/1,38
Energy efficiency EER	W/W	❄️	5,56	4,67	4,17
Energy efficiency SEER		❄️	10,60	9,50	8,50
Energy efficiency class		❄️	A+++	A+++	A+++
Outdoor temperature operating range (min.-max.)	°C	❄️	-15/+46	-15/+46	-15/+46
Heating capacity	kW	🔥	3,20	4,00	4,50
Heating range (min.-max.)	kW	🔥	0,70 - 5,80	0,80 - 6,30	0,80 - 6,80
Power consumption (min./nom./max.)	kW	🔥	0,15/0,60/1,55	0,17/0,80/2,00	0,17/1,37/2,05
Energy efficiency COP	W/W	🔥	5,33	5,00	4,01
Energy efficiency SCOP		🔥	5,20	5,10	4,60
Energy efficiency class		🔥	A+++	A+++	A++
Outdoor temperature operating range (min.-max.)	°C	🔥	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A		10	10	13
<b>Set price</b>	<b>€</b>		<b>2.200,-</b>	<b>2.425,-</b>	<b>3.090,-</b>

INDOOR UNIT			RAS-10PKVPG-E	RAS-13PKVPG-E	RAS-16PKVPG-E
Airflow	m³/h		690	710	730
Sound pressure level (low/med/high)	dB(A)	❄️	20/33/44	20/34/45	22/35/46
Sound pressure level (low/med/high)	dB(A)	🔥	20/33/44	20/34/45	22/35/46
Dimensions (HxWxD)	mm		293 x 851 x 270	293 x 851 x 270	293 x 851 x 270
Weight	kg		14	14	14
<b>Price</b>	<b>€</b>		<b>780,-</b>	<b>820,-</b>	<b>935,-</b>

OUTDOOR UNIT			RAS-10PAVPG-E	RAS-13PAVPG-E	RAS-16PAVPG-E
Sound pressure level (low/med/high)	dB(A)	❄️	46	48	49
Sound pressure level (low/med/high)	dB(A)	🔥	47	50	50
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2
Pipe length (max.)	m		25	25	25
Height difference (max.)	m		10	10	10
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		1,00	1,00	1,00
Dimensions (HxWxD)	mm		630 x 800 x 300	630 x 800 x 300	630 x 800 x 300
Weight	kg		43	43	43
<b>Price</b>	<b>€</b>		<b>1.420,-</b>	<b>1.605,-</b>	<b>2.155,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RB-N105S-G</b>	TOSHIBA Home AC control - wireless WiFi control / Seiya, Shorai Edge, Daiseikai 9		<b>120,-</b>
<b>818F0023</b>	Active carbon-catechin filter strips		<b>31,-</b>
<b>818F0036</b>	IAQ filter strips		<b>49,-</b>
<b>818F0072</b>	Ultra-Fresh filter strips		<b>36,-</b>
<b>TCB-IFCB5-PE</b>	External on/off PCB, window contact module		<b>75,-</b>
<b>TCB-PX100-PE</b>	Casing for outdoor installation of window contact module for high-wall units		<b>50,-</b>

You will find all the control options on page 29.

# Console / Set



- › Bi-flow console with variable air outlet
- › A++ for cooling and heating – with floor heating effect
- › Large-area dust filter and IAQ filter
- › Prepared for optional leak detection



INDOOR UNIT OUTDOOR UNIT			RAS-B10J2FVG-E RAS-10J2AVSG-E1	RAS-B13J2FVG-E RAS-13J2AVSG-E1	RAS-B18J2FVG-E RAS-18J2AVSG-E
Cooling capacity	kW	❄	2,50	3,50	5,00
Cooling range (min.-max.)	kW	❄	0,95 - 3,20	1,05 - 4,10	1,20 - 5,60
Power consumption (min./nom./max.)	kW	❄	0,21/0,59/0,90	0,27/0,87/1,20	0,34/1,68/2,00
Energy efficiency EER	W/W	❄	4,24	4,02	2,98
Energy efficiency SEER		❄	7,20	7,00	6,80
Energy efficiency class		❄	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	❄	-15/+46	-15/+46	-15/+46
Heating capacity	kW	🔥	3,20	4,20	6,00
Heating range (min.-max.)	kW	🔥	0,85 - 4,40	1,00 - 5,00	1,30 - 6,30
Power consumption (min./nom./max.)	kW	🔥	0,18/0,82/1,25	0,22/1,27/1,55	0,31/2,05/2,20
Energy efficiency COP	W/W	🔥	3,90	3,31	2,93
Energy efficiency SCOP		🔥	4,70	4,70	4,60
Energy efficiency class		🔥	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C	🔥	-15/+24	-15/+24	-15/+24
Power supply	V/Ph+N/Hz		220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A		10	10	16
<b>Set price</b>	<b>€</b>		<b>2.125,-</b>	<b>2.435,-</b>	<b>3.270,-</b>

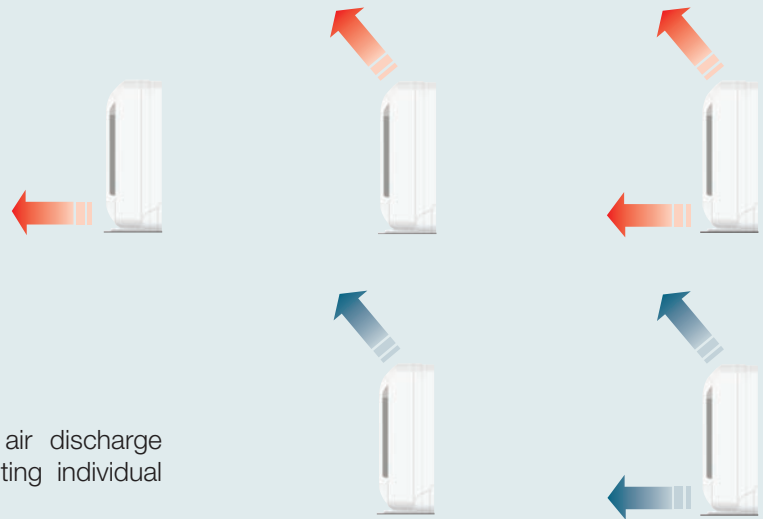
INDOOR UNIT			RAS-B10J2FVG-E	RAS-B13J2FVG-E	RAS-B18J2FVG-E
Airflow	m³/h		258-492	288-552	366-600
Sound pressure level (low/med/high)	dB(A)	❄	23/-/39	24/-/40	31/46
Sound pressure level (low/med/high)	dB(A)	🔥	23/-/39	24/-/40	31/47
Dimensions (HxWxD)	mm		600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
Weight	kg		16	16	16
<b>Price</b>	<b>€</b>		<b>1.185,-</b>	<b>1.295,-</b>	<b>1.560,-</b>

OUTDOOR UNIT			RAS-10J2AVSG-E1	RAS-13J2AVSG-E1	RAS-18J2AVSG-E
Sound pressure level (low/med/high)	dB(A)	❄	-/-/44	-/-/46	49
Sound pressure level (low/med/high)	dB(A)	🔥	-/-/46	-/-/48	51
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	12,7 (½)
Liquid pipe diameter	mm (inch)		6,3 (¼)	6,3 (¼)	6,3 (¼)
Pipe length (min.)	m		2	2	2
Pipe length (max.)	m		20	20	20
Height difference (max.)	m		12	12	12
Compressor type			Rotary	Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		0,55	0,80	1,10
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg		26	30	34
<b>Price</b>	<b>€</b>		<b>940,-</b>	<b>1.140,-</b>	<b>1.710,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RB-RXS33-E</b>	Infrared remote control including weekly timer and 8°C frost protection function		<b>110,-</b>
<b>RB-N106S-G</b>	TOSHIBA Home AC Control - WiFi control with cable / Seiya, console		<b>125,-</b>
<b>818F0023</b>	Active carbon-catechin filter strips		<b>31,-</b>
<b>818F0036</b>	IAQ filter strips		<b>49,-</b>
<b>818F0072</b>	Ultra-Fresh filter strips		<b>36,-</b>
<b>RB-I301-E</b>	Leak detection sensor for J2FVG-E model type consoles		<b>270,-</b>
<b>TCB-IFCB5-PE</b>	External on/off PCB, window contact module		<b>75,-</b>
<b>TCB-PX100-PE</b>	Casing for outdoor installation of window contact module for high-wall units		<b>50,-</b>

Product change from E to E1 during the year. You will find all the control options on page 29.





Many different settings for the air discharge direction are possible, thus meeting individual requirements.



# INVERTER MULTI-SYSTEMS: Indoor units

## SEIYA



- › BASIC Line compact inverter
- › Dust filter and ultra fresh filter
- › Optional WiFi module: can be integrated into indoor unit



INDOOR UNIT			RAS-B07E2KVG-E	RAS-B10E2KVG-E	RAS-B13E2KVG-E	RAS-B16E2KVG-E	RAS-B18E2KVG-E	RAS-B24E2KVG-E
Cooling capacity	kW	❄️	2,00	2,50	3,30	4,20	5,00	6,50
Sound pressure level (low/med/high)	dB(A)	❄️	19/--/38	19/--/39	20/--/41	21/--/43	26/--/47	29/--/48
Heating capacity	kW	🔥	2,50	3,20	3,60	5,00	5,40	7,00
Sound pressure level (low/med/high)	dB(A)	🔥	19/--/38	20/--/39	20/--/42	22/--/43	26/--/48	29/--/48
Airflow	m³/h		500	510	560	760	840	1070
Dimensions (HxWxD)	mm		288 x 770 x 225	288 x 770 x 225	288 x 770 x 225	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
Weight	kg		9	9	9	9	9	15
Price	€		<b>410,-</b>	<b>415,-</b>	<b>420,-</b>	<b>445,-</b>	<b>TBC</b>	<b>TBC</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

Size 18 + 24 available from Fall 2023  
You will find the accessories on page 29.

## SHORAI Edge



- › HIGH Line allrounder with Careflow
- › Dust filter and ultra pure filter
- › WiFi module can be integrated into the indoor unit



INDOOR UNIT			RAS-B07J2KVSG-E	RAS-B10J2KVSG-E	RAS-B13J2KVSG-E	RAS-B16J2KVSG-E	RAS-B22J2KVSG-E	RAS-B24J2KVSG-E
Cooling capacity	kW	❄️	2,00	2,50	3,50	4,60	6,10	7,00
Sound pressure level (low/med/high)	dB(A)	❄️	19/22/40	19/22/40	19/23/43	21/25/44	27/34/45	28/35/47
Heating capacity	kW	🔥	2,50	3,20	4,20	5,50	7,00	8,00
Sound pressure level (low/med/high)	dB(A)	🔥	19/23/40	19/23/40	19/23/43	22/26/44	27/34/46	28/35/48
Airflow	m³/h		660	660	732	750	1032	1122
Dimensions (HxWxD)	mm		293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245
Weight	kg		10	10	10	10	14	14
Price	€		<b>565,-</b>	<b>570,-</b>	<b>615,-</b>	<b>645,-</b>	<b>765,-</b>	<b>890,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find the accessories on page 29.

## SHORAI Edge Black &amp; White



- › HIGH Line allrounder with design and function update
- › Choice of design: BLACK or WHITE indoor unit
- › High efficiency: Energy class A+++ / Clean air: dust filter & ultra pure filter
- › APP control: WiFi module integrated as standard



INDOOR UNIT WHITE			RAS-B07G3KVSG-E	RAS-B10G3KVSG-E	RAS-B13G3KVSG-E	RAS-B16G3KVSG-E	RAS-B18G3KVSG-E	RAS-B22G3KVSG-E	RAS-B24G3KVSG-E
INDOOR UNIT BLACK			RAS-B07G3KVSGB-E	RAS-B10G3KVSGB-E	RAS-B13G3KVSGB-E	RAS-B16G3KVSGB-E	RAS-B18G3KVSGB-E	RAS-B22G3KVSGB-E	RAS-B24G3KVSGB-E
Cooling capacity	kW	❄️	2,00	2,50	3,50	4,60	5,00	6,10	7,00
Sound pressure level (low/med/high)	dB(A)	❄️	19/22/40	19/22/40	19/23/43	21/25/44	26/31/44	27/34/45	28/35/47
Heating capacity	kW	🔥	2,50	3,20	4,20	5,50	6,00	7,00	8,00
Sound pressure level (low/med/high)	dB(A)	🔥	19/23/40	19/23/40	19/23/43	22/26/44	26/31/44	27/34/46	28/35/48
Airflow	m³/h		660	660	732	750	990	1032	1122
Dimensions (HxWxD)	mm		293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	293 x 800 x 226	320 x 1053 x 245	320 x 1053 x 245	320 x 1053 x 245
Weight	kg		10	10	10	10	14	14	14
Price WHITE	€		705,-	710,-	760,-	820,-	865,-	990,-	1.160,-
Price BLACK	€		790,-	795,-	850,-	940,-	1.000,-	1.140,-	1.350,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find the accessories on page 29.

## HAORI



- › Design unit with innovative textile cover
- › Dust filter, ozone air purifier, and ultra pure filter
- › WiFi module integrated as standard



INDOOR UNIT			RAS-B10N4KVRG-E	RAS-B13N4KVRG-E	RAS-B16N4KVRG-E
Cooling capacity	kW	❄️	2,50	3,50	4,60
Sound pressure level (low/med/high)	dB(A)	❄️	19/-/41	19/-/43	21/-/45
Heating capacity	kW	🔥	3,20	4,20	5,50
Sound pressure level (low/med/high)	dB(A)	🔥	19/-/41	19/-/43	22/-/45
Airflow	m³/h		300/610	320/670	360/730
Dimensions (HxWxD)	mm		300 x 987 x 210	300 x 987 x 210	300 x 987 x 210
Weight	kg		11	11	12
Price	€		895,-	975,-	1.035,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	HAORI design infrared remote control, black, with magnetic holder	✓	
RB-I4101-E	Fabric cover Dark Gray enclosed	✓	
RB-I4102-E	Fabric cover Light Gray enclosed	✓	
RB-I4103-E	Fabric cover Bluish Gray		130,-
RB-I4104-E	Fabric cover Gray Beige		130,-
RB-I4105-E	Fabric cover Dark Brown		130,-
RB-I4106-E	Fabric cover Emerald Blue		130,-

You will find the accessories on page 29.



## DAISEIKAI 9



- › Premium model with 3D airflow
- › Dust filter, plasma filter with ionizer
- › WiFi module can be integrated into the indoor unit



**DAISEIKAI**



INDOOR UNIT			RAS-M10PKVPG-E	RAS-M13PKVPG-E	RAS-M16PKVPG-E
Cooling capacity	kW		2,50	3,50	4,50
Sound pressure level (low/med/high)	dB(A)		20/42	20/43	23/44
Heating capacity	kW		3,20	4,00	4,50
Sound pressure level (low/med/high)	dB(A)		20/44	20/44	23/45
Airflow	m³/h		726	726	642
Dimensions (HxWxD)	mm		293 x 851 x 270	293 x 851 x 270	293 x 851 x 270
Weight	kg		14	14	14
<b>Price</b>	<b>€</b>		<b>780,-</b>	<b>820,-</b>	<b>935,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find the accessories on page 29.

## Console



- › Bi-flow console with variable air outlet
- › Large-area dust filter and IAQ filter
- › Prepared for optional leak detection



INDOOR UNIT			RAS-B10J2FVG-E	RAS-B13J2FVG-E	RAS-B18J2FVG-E
Cooling capacity	kW		2,50	3,50	5,00
Sound pressure level (low/med/high)	dB(A)		26/32/39	27/33/40	34/40/46
Heating capacity	kW		3,20	4,20	6,00
Sound pressure level (low/med/high)	dB(A)		26/32/39	27/33/40	34/40/47
Airflow	m³/h		258/492	270/528	366/600
Dimensions (HxWxD)	mm		600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
Weight	kg		16	16	16
<b>Price</b>	<b>€</b>		<b>1.185,-</b>	<b>1.295,-</b>	<b>1.560,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find the accessories on page 29.

## 60x60 slim cassette



- › Euro-grid cassette with 360° air distribution & presence sensor option
- › Slim design panel with individual airflow patterns
- › Large-area dust filter
  - › Accessories required: remote control + panel



INDOOR UNIT		RAS-M10U2MUVG-E	RAS-M13U2MUVG-E	RAS-M16U2MUVG-E
Cooling capacity	kW ❄️	2,70	3,70	4,50
Sound pressure level (low/med/high)	dB(A) ❄️	30/-/37	33/-/39	33/-/41
Heating capacity	kW ❄️	4,00	5,00	5,50
Sound pressure level (low/med/high)	dB(A) ❄️	30/-/37	32/-/39	32/-/41
Airflow	m³/h	590/430	620/430	680/450
Dimensions (HxWxD)	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
Weight	kg	15	15	15
Panel dimensions (HxWxD)	mm	16 x 620 x 620	16 x 620 x 620	16 x 620 x 620
Panel weight	kg	3	3	3
<b>Price</b>	<b>€</b>	<b>1.215,-</b>	<b>1.285,-</b>	<b>1.325,-</b>

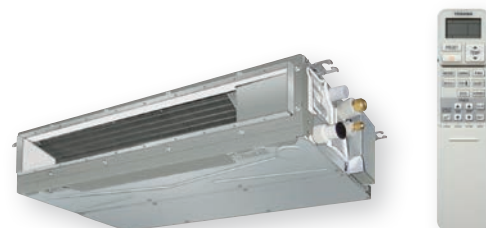
ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-UM21PG(W)-E</b>	Panel for 60x60 slim cassette	<b>440,-</b>
<b>RBC-AXU31UM-E</b>	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	<b>180,-</b>
<b>RB-RWS21-E</b>	Wired remote control with weekly timer	<b>330,-</b>

You will find the accessories on page 29.

## Duct unit



- › Minimal installation height of just 210 mm
- › External static pressure adjustable up to 45 Pa
- › Drain pump included



INDOOR UNIT		RAS-M10U2DVG-E	RAS-M13U2DVG-E	RAS-M16U2DVG-E	RAS-M22U2DVG-E	RAS-M24U2DVG-E
Cooling capacity	kW ❄️	2,70	3,70	4,50	6,00	7,00
Sound pressure level (low/med/high)	dB(A) ❄️	27/35	27/37	24/35	32/38	33/39
Heating capacity	kW ❄️	4,00	5,00	5,50	7,00	8,00
Sound pressure level (low/med/high)	dB(A) ❄️	27/35	27/37	25/35	32/38	33/39
Airflow	m³/h	570	610	780	1000	1060
External static pressure	Pa	10/20/ 35/45	10/20/ 35/45	10/20/ 35/45	10/20/ 35/45	10/20/ 35/45
Dimensions (HxWxD)	mm	210 x 700 x 450	210 x 700 x 450	210 x 900 x 450	210 x 1100 x 450	210 x 1100 x 450
Weight	kg	16	16	19	22	22
<b>Price</b>	<b>€</b>	<b>1.405,-</b>	<b>1.440,-</b>	<b>1.540,-</b>	<b>1.785,-</b>	<b>1.810,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RB-RWS21-E</b>	Wired remote control with weekly timer		<b>330,-</b>

You will find the accessories on page 29.

# INVERTER MULTI-SYSTEMS: Outdoor units



## Multi-split NEXT



- › The new generation of multi outdoor units
- › Up to 5 indoor units can be connected
- › Energy efficiency up to A<sup>+++</sup>, depending on combination
- › Supports energy monitoring for SEIYA, HAORI, and SHORAI EDGE BLACK & WHITE



RAS-2M14G3AVG-E

RAS-2M18G3AVG-E  
RAS-3M18G3AVG-ERAS-3M26G3AVG-E  
RAS-4M27G3AVG-E  
RAS-5M34G3AVG-E

		2-ROOM MULTISPLIT		3-ROOM MULTISPLIT		4-ROOM MULTISPLIT	5-ROOM MULTISPLIT
OUTDOOR UNIT		RAS-2M14G3AVG-E	RAS-2M18G3AVG-E	RAS-3M18G3AVG-E	RAS-3M26G3AVG-E	RAS-4M27G3AVG-E	RAS-5M34G3AVG-E
Cooling capacity	kW ❄️	4,00	5,20	5,20	7,00	8,00	10,00
Cooling range (min.-max.)	kW ❄️	1,50 - 4,90	1,60 - 6,50	2,00 - 7,50	2,00 - 9,00	2,00 - 10,00	2,50 - 11,50
Power consumption (min./nom./max.)	kW ❄️	0,85	1,20	1,00	1,75	1,90	2,60
Energy efficiency EER	W/W ❄️	4,71	4,33	5,20	4,00	4,21	3,85
Energy efficiency SEER	W/W ❄️	8,70	8,70	8,60	8,50	8,30	7,20
Energy efficiency class	❄️	A+++	A+++	A+++	A+++	A++	A++
Outdoor temperature operating range (min.-max.)	°C ❄️	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46
Heating capacity	kW ❄️	4,40	5,60	6,80	8,70	9,00	12,00
Outdoor temperature operating range (min.-max.)	°C ❄️	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24	-15/+24
Power consumption (min./nom./max.)	kW ❄️	0,90	1,14	1,45	2,00	1,90	2,80
Energy efficiency COP	W/W ❄️	4,89	4,91	4,69	4,35	4,74	4,29
Energy efficiency SCOP	W/W ❄️	4,80	4,80	4,80	4,60	4,50	4,30
Energy efficiency class	❄️	A++	A++	A++	A++	A++	A++
Heating range (min.-max.)	kW ❄️	1,00 - 5,20	1,30 - 8,20	1,90 - 8,30	2,00 - 11,50	2,00 - 12,00	2,20 - 14,20
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A	16	16	16	20	20	20
Sound pressure level (low/med/high)	dB(A) ❄️	49	48	48	50	50	54
Sound pressure level (low/med/high)	dB(A) ❄️	52	50	52	52	52	54
Pipe length (max.)	m	30	30	50	70	70	80
Pipe length/indoor unit (min.)	m	-	-	-	-	-	-
Pipe length/indoor unit (max.)	m	20	20	25	25	25	25
Height difference (max.)	m	10	10	10	15	15	15
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,95	1,20	1,25	1,90	2,05	2,39
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 800 x 300	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
Weight	kg	35	43	44	72	72	78
Price	€	<b>1.850,-</b>	<b>1.990,-</b>	<b>2.760,-</b>	<b>3.190,-</b>	<b>3.500,-</b>	<b>4.000,-</b>

\* available from Summer 2023



# Multi-split



RAS-2M14U2AVG-E  
RAS-2M18U2AVG-E  
RAS-3M18U2AVG-E



RAS-3M26U2AVG-E  
RAS-4M27U2AVG-E  
RAS-5M34U2AVG-E

		2-ROOM MULTISPLIT		3-ROOM MULTISPLIT		4-ROOM MULTISPLIT	5-ROOM MULTISPLIT
OUTDOOR UNIT		RAS-2M14U2AVG-E	RAS-2M18U2AVG-E	RAS-3M18U2AVG-E	RAS-3M26U2AVG-E	RAS-4M27U2AVG-E	RAS-5M34U2AVG-E
Cooling capacity	kW ❄️	4,00	5,20	5,20	7,50	8,00	10,00
Cooling range (min. -max.)	kW ❄️	1,60 - 4,90	1,70 - 6,20	2,40 - 6,50	4,10 - 9,00	4,20 - 9,30	3,70 - 11,00
Power consumption (min./nom./max.)	kW ❄️	0,92	1,34	1,17	2,00	2,29	2,98
Energy efficiency EER	W/W ❄️	4,35	3,88	4,44	3,75	3,50	3,36
Energy efficiency SEER	❄️	6,73	6,90	6,80	6,19	6,11	6,31
Energy efficiency class	❄️	A++	A++	A++	A++	A++	A++
Outdoor temperature operating range (min. -max.)	°C ❄️	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46	-10/+46
Heating capacity	kW ❄️	4,40	5,60	6,80	9,00	9,00	12,00
Outdoor temperature operating range (min. -max.)	°C ❄️	-20/+24	-20/+24	-20/+24	-15/+24	-15/+24	-15/+24
Power consumption (min./nom./max.)	kW ❄️	0,89	1,19	1,58	2,20	1,93	2,83
Energy efficiency COP	W/W ❄️	4,94	4,71	4,30	4,09	4,67	4,24
Energy efficiency SCOP	❄️	4,60	4,60	4,60	4,44	4,26	4,08
Energy efficiency class	❄️	A++	A++	A++	A++	A++	A+
Heating range (min. -max.)	kW ❄️	1,30 - 5,20	1,30 - 7,50	1,90 - 8,00	2,00 - 11,20	2,90 - 11,70	2,70 - 14,00
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A	16	16	16	20	20	20
Sound pressure level (low/med/high)	dB(A) ❄️	45	47	47	48	48	52
Sound pressure level (low/med/high)	dB(A) ❄️	46	50	50	49	49	55
Pipe length (max.)	m	30	30	50	70	70	80
Pipe length/indoor unit (min.)	m	2	2	2	3	3	3
Pipe length/indoor unit (max.)	m	20	20	25	25	25	25
Height difference (max.)	m	10	10	10	15	15	15
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	1,02	1,02	1,05	1,92	1,92	2,39
Dimensions (HxWxD)	mm	630 x 800 x 300	630 x 800 x 300	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320	890 x 900 x 320
Weight	kg	43	45	46	72	72	78
<b>Price</b>	€	<b>1.775,-</b>	<b>1.860,-</b>	<b>2.530,-</b>	<b>2.960,-</b>	<b>3.415,-</b>	<b>3.945,-</b>

## Table of inverter multi-system combinations

OUTDOOR UNIT	RAS-2M14U2AVG-E	RAS-2M18U2AVG-E	RAS-3M18U2AVG-E	RAS-3M26U2AVG-E			
	RAS-2M14G3AVG-E	RAS-2M18G3AVG-E	RAS-3M18G3AVG-E	RAS-3M26G3AVG-E			
1 unit *	07 10 13	07 10 13 16	07 10 13 16	07 10 13 16 18 22 24			
2 units	10+07 10+10 13+07 13+10 13+13	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 16+16	07+07 10+07 10+10 13+07 13+10 13+13 16+07 16+10 16+13 18+07 18+10 18+13		18+16 18+18 22+07 22+10 22+13 22+16 22+18 24+07 24+10 24+13 24+16 24+18	
3 units			07+07+07 10+07+07 10+10+07 10+10+10 13+07+07 13+10+07 13+10+10 13+13+07 13+13+10 16+07+07 16+10+10 16+13+07	07+07+07 10+07+07 10+10+07 10+10+10 13+07+07 13+10+07 13+10+10 13+13+07 13+13+10 16+07+07 16+10+07 16+10+10	16+13+07 16+13+10 16+16+07 16+16+10 16+16+13 16+16+16 18+07+07 18+10+07 18+10+10 18+07+13 18+13+10 18+13+13	18+16+07 18+16+10 18+16+13 18+16+16 22+07+07 22+10+07 22+10+10 22+07+13 22+13+10 22+13+13 22+16+07 22+16+10 22+16+13	22+16+16 24+07+07 24+10+07 24+10+10 24+13+07 24+13+10 24+13+13 24+16+07 24+16+10 24+16+13
4 units							
5 units							

\* 1 unit for cooling mode only





## Outdoor Units Quick View

TYPE	Pipe length (min.)	Pipe length (max.)	Pre-charged up to	Height difference (max.)	Pipe length/indoor unit (max.)	Suction gas pipe diameter	Liquid pipe diameter	Refrigerant charge	Added refrigerant charge
	m	m	m	m	m	mm (inch)	mm (inch)	kg	g/m
<b>SEIYA</b>									
RAS-07E2AVG-E	2	15	15	15	-	9,5 (3/8)	6,3 (1/4)	0,34	20
RAS-10E2AVG-E	2	15	15	15	-	9,5 (3/8)	6,3 (1/4)	0,49	20
RAS-13E2AVG-E	2	15	15	15	-	9,5 (3/8)	6,3 (1/4)	0,54	20
RAS-16E2AVG-E	2	20	15	15	-	12,7 (1/2)	6,3 (1/4)	0,68	20
RAS-18E2AVG-E	2	20	15	15	-	12,7 (1/2)	6,3 (1/4)	0,93	20
RAS-24E2AVG-E	2	20	15	15	-	12,7 (1/2)	6,3 (1/4)	1,18	20
<b>HAORI + SHORAI EDGE + CONSOLE</b>									
RAS-07J2AVSG-E1	2	20	15	12	-	9,5 (3/8)	6,3 (1/4)	0,55	20
RAS-10J2AVSG-E1	2	20	15	12	-	9,5 (3/8)	6,3 (1/4)	0,55	20
RAS-13J2AVSG-E1	2	20	15	12	-	9,5 (3/8)	6,3 (1/4)	0,80	20
RAS-16J2AVSG-E1	2	20	15	12	-	12,7 (1/2)	6,3 (1/4)	0,80	20
RAS-18J2AVSG-E1	2	20	15	12	-	12,7 (1/2)	6,3 (1/4)	1,10	20
RAS-22J2AVSG-E1	2	20	15	12	-	12,7 (1/2)	6,3 (1/4)	1,10	20
RAS-24J2AVSG-E1	2	25	15	15	-	12,7 (1/2)	6,3 (1/4)	1,14	20
<b>DAISEIKAI 9</b>									
RAS-10PAVPG-E	2	25	15	12	-	9,5 (3/8)	6,3 (1/4)	1,00	20
RAS-13PAVPG-E	2	25	15	12	-	9,5 (3/8)	6,3 (1/4)	1,00	20
RAS-16PAVPG-E	2	25	15	12	-	12,7 (1/2)	6,3 (1/4)	1,00	20
<b>MULTI-SPLIT</b>									
RAS-2M14U2AVG-E	2	30	30	10	20	2x 9,5 (3/8)	2x 6,3 (1/4)	1,02	20
RAS-2M18U2AVG-E	2	30	30	10	20	2x 9,5 (3/8)	2x 6,3 (1/4)	1,02	20
RAS-3M18U2AVG-E	2	50	50	10	25	2x 9,5 (3/8), 1x 12,7 (1/2)	3x 6,3 (1/4)	1,05	20
RAS-3M26U2AVG-E	3	70	40	15	25	1x 9,5 (3/8), 2x 12,7 (1/2)	3x 6,3 (1/4)	1,92	20
RAS-4M27U2AVG-E	3	70	40	15	25	2x 9,5 (3/8), 2x 12,7 (1/2)	4x 6,3 (1/4)	1,92	20
RAS-5M34U2AVG-E	3	80	40	15	25	3x 9,5 (3/8), 2x 12,7 (1/2)	5x 6,3 (1/4)	2,39	20
<b>MULTI-SPLIT NEXT</b>									
RAS-2M14G3AVG-E	2	30	30	10	20	2x 9,5 (3/8)	2x 6,3 (1/4)	0,95	20
RAS-2M18G3AVG-E	2	30	30	10	20	2x 9,5 (3/8)	2x 6,3 (1/4)	1,20	20
RAS-3M18G3AVG-E	2	50	50	10	25	2x 9,5 (3/8), 1x 12,7 (1/2)	3x 6,3 (1/4)	1,25	20
RAS-3M26G3AVG-E	2	70	40	15	25	1x 9,5 (3/8), 2x 12,7 (1/2)	3x 6,3 (1/4)	1,90	20
RAS-4M27G3AVG-E	3	70	40	15	25	2x 9,5 (3/8), 2x 12,7 (1/2)	4x 6,3 (1/4)	2,05	20
RAS-5M34G3AVG-E	3	80	40	15	25	3x 9,5 (3/8), 2x 12,7 (1/2)	5x 6,3 (1/4)	2,39	20

## Current Consumption + Fusing

TYPE	Current consumption (max.)	Current consumption (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW ❄️	kW ⚡	A	V/Ph+N/Hz		
<b>SEIYA</b>								
RAS-07E2AVG-E	5,40	3,30	0,20/0,53/0,83	0,16/0,64/0,94	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-10E2AVG-E	7,20	4,30	0,20/0,70/1,00	0,18/0,86/1,11	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13E2AVG-E	7,40	5,38	0,25/1,10/1,25	0,18/0,92/1,25	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16E2AVG-E	9,00	6,34	0,34/1,27/1,60	0,24/1,34/1,70	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18E2AVG-E	9,25	-	0,34/1,50/1,80	0,26/1,50/1,80	16	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-24E2AVG-E	-	-	0,41/2,25/2,60	0,29/2,10/2,55	16	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
<b>HAORI + SHORAI EDGE + CONSOLE</b>								
RAS-07J2AVSG-E1	4,50	-	0,19/0,39/0,67	0,16/0,50/0,80	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-10J2AVSG-E1	6,75	2,45	0,19/0,54/0,79	0,16/0,70/1,23	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13J2AVSG-E1	7,50	3,89	0,25/0,90/1,12	0,20/1,08/1,55	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16J2AVSG-E1	9,50	5,61	0,34/1,35/1,72	0,24/1,52/1,90	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-18J2AVSG-E1	9,50	-	0,35/1,42/2,00	0,25/1,59/1,75	16	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-22J2AVSG-E1	10,50	-	0,36/1,99/2,20	0,26/1,88/2,10	16	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-24J2AVSG-E1	12,50	-	0,38/2,25/2,55	0,29/2,35/2,75	16	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
<b>DAISEIKAI 9</b>								
RAS-10PAVPG-E	8,50	3,12	0,15/0,45/0,82	0,15/0,60/1,55	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-13PAVPG-E	9,95	3,39	0,18/0,75/1,00	0,17/0,80/2,00	10	220-240/1/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAS-16PAVPG-E	10,45	5,63	0,18/1,08/1,38	0,17/1,37/2,05	16	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
<b>MULTI-SPLIT</b>								
RAS-2M14U2AVG-E	4,55	4,35	0,92	0,89	16	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-2M18U2AVG-E	6,43	6,15	1,34	1,19	16	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-3M18U2AVG-E	7,54	7,22	1,17	1,58	16	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-3M26U2AVG-E	10,53	10,07	2,00	2,20	20	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-4M27U2AVG-E	10,94	10,46	2,29	1,93	20	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-5M34U2AVG-E	14,26	13,65	2,98	2,83	20	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
<b>MULTI-SPLIT NEXT</b>								
RAS-2M14G3AVG-E	10,50	-	0,85	0,90	16	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-2M18G3AVG-E	11,50	-	1,20	1,14	16	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-3M18G3AVG-E	11,90	-	1,00	1,45	16	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-3M26G3AVG-E	-	-	1,75	2,00	20	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-4M27G3AVG-E	-	-	1,90	1,90	20	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAS-5M34G3AVG-E	-	-	2,60	2,80	20	220-240/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5

# Sound Power Level / Sound Pressure

TYPE	Sound power level		Sound pressure level (low/med/high)	
	dB(A) ❄️	dB(A) 🔥	dB(A) ❄️	dB(A) 🔥
<b>SEIYA</b>				
RAS-07E2AVG-E	60	62	--/--/47	--/--/49
RAS-10E2AVG-E	60	62	--/--/47	--/--/49
RAS-13E2AVG-E	61	62	--/--/48	--/--/49
RAS-16E2AVG-E	63	64	--/--/50	--/--/51
RAS-18E2AVG-E	63	64	--/--/50	--/--/51
RAS-24E2AVG-E	67	67	--/--/54	--/--/54
<b>HAORI + SHORAI EDGE + CONSOLE</b>				
RAS-07J2AVSG-E1	57	59	36/43/44	38/44/46
RAS-10J2AVSG-E1	57	59	37/43/44	39/45/46
RAS-13J2AVSG-E1	59	61	39/45/46	43/46/48
RAS-16J2AVSG-E1	61	63	40/47/48	43/49/50
RAS-18J2AVSG-E1	61	63	42/47/48	44/49/50
RAS-22J2AVSG-E1	62	64	43/48/49	46/50/51
RAS-24J2AVSG-E1	63	65	43/49/50	46/52/52
<b>DAISEIKAI 9</b>				
RAS-10PAVPG-E	61	62	46	47
RAS-13PAVPG-E	63	65	48	50
RAS-16PAVPG-E	64	65	49	50
<b>MULTI-SPLIT</b>				
RAS-2M14U2AVG-E	58	59	45	46
RAS-2M18U2AVG-E	60	63	47	50
RAS-3M18U2AVG-E	60	63	47	50
RAS-3M26U2AVG-E	63	64	48	49
RAS-4M27U2AVG-E	63	64	48	49
RAS-5M34U2AVG-E	66	68	52	55
<b>MULTI-SPLIT NEXT</b>				
RAS-2M14G3AVG-E	59	65	49	52
RAS-2M18G3AVG-E	61	63	48	50
RAS-3M18G3AVG-E	61	65	48	52
RAS-3M26G3AVG-E	63	65	50	52
RAS-4M27G3AVG-E	63	62	50	52
RAS-5M34G3AVG-E	67	67	54	54



Container home for Austrian Armed Forces, Ferlach, Gebrüder Tertsche KG







## RAS Accessories



## High-wall unit

ACCESSORIES	DESCRIPTION	PRICE €
818F0023	Active carbon-catechin filter strips	31,-
818F0036	IAQ filter strips	49,-
818F0072	Ultra-Fresh filter strips	36,-
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function	110,-
RB-RXS34-E	HAORI design infrared remote control, black, with magnetic holder	125,-
RB-N105S-G	TOSHIBA Home AC control - wireless WiFi control / Seiya, Shorai Edge, Daiseikai 9	120,-
RB-N106S-G	TOSHIBA Home AC Control - WiFi control with cable / Seiya, console	125,-
TCB-IFCB5-PE	External on/off PCB, window contact module	75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units	50,-

## Console

ACCESSORIES	DESCRIPTION	PRICE €
818F0023	Active carbon-catechin filter strips	31,-
818F0036	IAQ filter strips	49,-
RB-I301-E	Leak detection sensor for J2FVG-E model type consoles	270,-
RB-RXS33-E	Infrared remote control including weekly timer and 8°C frost protection function	110,-
RB-N106S-G	TOSHIBA Home AC Control - WiFi control with cable / Seiya, console	125,-
TCB-IFCB5-PE	External on/off PCB, window contact module	75,-
TCB-PX100-PE	Casing for outdoor installation of window contact module for high-wall units	50,-

## 60x60 Slim cassette

ACCESSORIES	DESCRIPTION	PRICE €
RBC-UM21PG(W)-E	Panel for 60x60 slim cassette	440,-
RB-RWS21-E	Wired remote control with weekly timer	330,-
RBC-AXU31UM-E	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	180,-
TCB-SIR41UM-E	Occupancy sensor kit for installation in 60x60 slim cassette	130,-
AP-IR-WIFI-1	WiFi module to control all functions of an indoor unit using an app on a cell phone	380,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-
TCB-IFCB5-PE	External on/off PCB, window contact module	75,-

## Duct unit

ACCESSORIES	DESCRIPTION	PRICE €
RB-RWS21-E	Wired remote control with weekly timer	330,-
AP-IR-WIFI-1	WiFi module to control all functions of an indoor unit using an app on a cell phone	380,-
TCB-DUCX10M	Extension cable for infrared receiver kit 10 m	105,-
TCB-DUC-AF1	Air filter for model sizes 10 + 13	260,-
TCB-DUC-AF2	Air filter for model size 16	295,-
TCB-DUC-AF3	Air filter for model sizes 22 + 24	315,-
TCB-IFCB5-PE	External on/off PCB, window contact module	75,-

# RAS Control Options

	TYPE / DESCRIPTION	PRICE €
	<p><b>RB-RXS33-E</b> Infrared remote control including weekly timer and 8°C frost protection function</p> <ul style="list-style-type: none"> <li>• for single + multi</li> <li>• Comfort functions: Weekly timer, one touch, eco mode, comfort sleep, Hi Power, power select, 8°C frost protection</li> </ul>	110,-
	<p><b>RB-RXS34-E</b> HAORI design infrared remote control, black, with magnetic holder</p>	125,-
	<p><b>RB-RWS21-E</b> Wired remote control with weekly timer</p> <ul style="list-style-type: none"> <li>• with large backlit display</li> <li>• for RAS cassette and duct units</li> <li>• Comfort functions: Weekly timer, quiet mode, eco mode, HI POWER</li> </ul>	330,-
	<p><b>TCB-IFCB5-PE</b> External on/off PCB, window contact module</p> <ul style="list-style-type: none"> <li>• Potential-free contact for on/off and window contact input.</li> <li>• Remote ON/OFF function</li> </ul>	75,-
<p><b>TCB-PX100-PE</b> Casing for outdoor installation of window contact module for high-wall units</p>	50,-	
	<p><b>RBC-Combi Control</b> Module to control the main functions via SMS or an app (SIM card required)</p> <ul style="list-style-type: none"> <li>• To control the main functions such as on/off, operating mode, temperature and fan speed, plus alarms in the event of a power blackout or when temperature is too high/too low</li> <li>• Compatible with all indoor units that have a standard infrared remote control</li> <li>• Free app for iOS or Android</li> </ul>	635,-
	<p><b>AP-IR-WIFI-1</b> WiFi module to control all functions of an indoor unit using an app on a cell phone</p> <ul style="list-style-type: none"> <li>• Temperature and humidity alarm configurable</li> <li>• Compatible with all indoor units that have a standard infrared remote control</li> <li>• WLAN and internet access required</li> <li>• Free app for iOS or Android</li> <li>• Not a stock item - lead time on request</li> <li>• for cassette + duct unit only</li> </ul>	380,-
	<p><b>RB-N105S-G</b> TOSHIBA Home AC control - wireless WiFi control / Seiya, Shorai Edge, Daiseikai 9</p> <ul style="list-style-type: none"> <li>• WLAN and internet access required</li> <li>• TOSHIBA cloud, free app for iOS or Android</li> <li>• Voice Control via Google Assistant/Amazon Alexa</li> </ul>	120,-
	<p><b>RB-N106S-G</b> TOSHIBA Home AC Control - WiFi control with cable / Seiya, console</p> <ul style="list-style-type: none"> <li>• WLAN and internet access required</li> <li>• TOSHIBA cloud; free app for iOS or Android</li> <li>• Voice Control via Google Assistant/Amazon Alexa</li> </ul>	125,-
	<p><b>TCB-SSRL011UUP-E</b> Interface for incorporating RAS indoor units into central control systems and BMS systems.</p> <ul style="list-style-type: none"> <li>• For the 1:1 integration of an RAS indoor unit into a VRF control system</li> <li>• Control of the standard indoor unit functions with current BMS/central remote controllers</li> <li>• Control of all indoor unit functions with BMS/central remote controllers produced from 08/22 or later</li> <li>• Compatible with TCC and TU2C link system bus (Uj or U3/U4)</li> <li>• Compatible with SEIYA, HAORI, SHORAI, DAISEIKAI9, CONSOLE indoor units (UART)</li> </ul>	240,-







EFFICIENT HEATING  
WITH AN AIR-TO-WATER  
HEAT PUMP



# ESTIA – AIR-TO-WATER HEAT PUMP

- › Low investment, installation costs, and operating costs
- › Reliable heating to -25°C outdoor air temperature

## OUTDOOR UNITS

### Compact, Standard & HI POWER

The compressor raises the temperature of the outdoor air to a higher level and transfers the energy thereby obtained to the Hydrobox.

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## HYDROBOX

### Compact, Standard & HI POWER

In the Hydrobox, the heat is transferred with minimal heat loss to the heating system via a plate heat exchanger.

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## ALL-IN-ONE INDOOR UNIT

The all-in-one indoor unit brings together the Hydrobox and hot water tank into a single unit with a minimal footprint.

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## REMOTE CONTROL

The control panel is located on the Hydrobox and controls all the functions. There is an optional external room remote control with temperature sensor available.

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## HOT WATER TANK

This is where the hot water is stored before use. The insulated tank is made from stainless steel, which minimizes heat losses and is very durable.

Page 51

# ESTiA

# ESTIA 4 kW Hydrobox / Set

- › Set consisting of outdoor unit and Hydrobox Compact
- › A+++ in heating mode
- › Supply water temperature up to +55°C
- › Heating operation down to -20°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



## Hydrobox Compact

		1-phase	
OUTDOOR UNIT		HWT-401HW-E	
Heating capacity @ A+7/W+35 (nom.)	kW	☀	4,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	4,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,79 - 7,25
Sound power level	dB(A)	☀	59
Sound power level	dB(A)	❄	60
Sound power level (night operation)	dB(A)	☀	54
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,20
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,45
Energy efficiency class		☀	A+++
COP			4,30
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-230/1/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300
<b>Price</b>	<b>€</b>		<b>2.090,-</b>

INDOOR UNIT		HWT-601XWHM3W-E	HWT-601XWHT6W-E
Supply water temperature (min.-max.)	°C	☀	20/55
Supply water temperature (min.-max.)	°C	❄	7/25
Backup heater, capacity	kW		3
Water flow rate (min.)	m³/h		0,66
Water pump, discharge head (max.)	m		7,2
Sound power level	dB(A)	☀	40
Sound power level	dB(A)	❄	40
Dimensions (HxWxD)	mm		720 x 450 x 235
<b>Price</b>	<b>€</b>		<b>3.915,-</b>
			<b>4.080,-</b>



# ESTIA 4 kW AIO / Set

- › Set consisting of outdoor unit and all-in-one indoor unit
- › A+++ in heating mode
- › Supply water temperature up to +55°C
- › Heating operation down to -20°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



**All-in-One**

**1-phase**

<b>OUTDOOR UNIT</b>		<b>HWT-401HW-E</b>
Heating capacity @ A+7/W+35 (nom.)	kW	4,00
Cooling capacity @ A+35/W+7 (nom.)	kW	4,00
Heating range @A+7/W+35 (min. – max.)	kW	0,79 - 7,25
Sound power level	dB(A)  /	59 / 60
Sound power level (night operation)	dB(A)	54
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	5,20
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	3,45
Energy efficiency class		A+++
COP		4,30
Outdoor temperature operating range (min.-max.)	°C	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz	220-230/1/50
Recommended fusing	A	16
Refrigerant		R32
Dimensions (HxWxD)	mm	630 x 800 x 300
<b>Price</b>	<b>€</b>	<b>2.090,-</b>

**1 zone**

<b>INDOOR UNIT</b>		<b>HWT-602S21SM3W-E</b>	<b>HWT-602S21ST6W-E</b>
Tank volume	l	210	210
Supply water temperature (min.-max.)	°C	20/55	20/55
Supply water temperature (min.-max.)	°C	7/25	7/25
Backup heater, capacity	kW	3	6
Water flow rate (min.)	m³/h	0,66	0,66
Water pump, discharge head (max.)	m	7,2	7,2
Sound power level	dB(A)  /	40 / 40	40 / 40
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670
<b>Price</b>	<b>€</b>	<b>9.260,-</b>	<b>9.325,-</b>

# ESTIA 6 kW Hydrobox / Set

- › Set consisting of outdoor unit and Hydrobox Compact
- › A+++ in heating mode
- › Supply water temperature up to +55°C
- › Heating operation down to -20°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



## Hydrobox Compact

		1-phase	
OUTDOOR UNIT		HWT-601HW-E	
Heating capacity @ A+7/W+35 (nom.)	kW	☀	6,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	5,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	0,80 - 7,25
Sound power level	dB(A)	☀ / ❄	62 / 61
Sound power level (night operation)	dB(A)	☀	58
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,30
Energy efficiency class		☀	A+++
COP			4,30
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-230/1/50
Recommended fusing	A		16
Refrigerant			R32
Dimensions (HxWxD)	mm		630 x 800 x 300
<b>Price</b>	€		<b>2.325,-</b>

INDOOR UNIT		HWT-601XWHM3W-E	HWT-601XWHT6W-E
Supply water temperature (min.-max.)	°C	☀	20/55
Supply water temperature (min.-max.)	°C	❄	7/25
Backup heater, capacity	kW		3
Water flow rate (min.)	m³/h		0,66
Water pump, discharge head (max.)	m		7,2
Sound power level	dB(A)	☀ / ❄	40 / 40
Dimensions (HxWxD)	mm		725 x 450 x 235
<b>Price</b>	€		<b>3.915,-</b>
			<b>4.080,-</b>





## ESTIA 6 kW AIO / Set

- › Set consisting of outdoor unit and all-in-one indoor unit
- › A+++ in heating mode
- › Supply water temperature up to +55°C
- › Heating operation down to -20°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



**All-in-One  
1-phase**

OUTDOOR UNIT		HWT-601HW-E
Heating capacity @ A+7/W+35 (nom.)	kW	6,00
Cooling capacity @ A+35/W+7 (nom.)	kW	5,00
Heating range @A+7/W+35 (min. – max.)	kW	0,80 - 7,25
Sound power level	dB(A)  /	62 / 61
Sound power level (night operation)	dB(A)	58
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	3,30
Energy efficiency class		A+++
COP		4,30
Outdoor temperature operating range (min.-max.)	°C	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz	220-230/1/50
Recommended fusing	A	16
Refrigerant		R32
Dimensions (HxWxD)	mm	630 x 800 x 300
<b>Price</b>	<b>€</b>	<b>2.325,-</b>

**1 zone**

INDOOR UNIT		HWT-602S21SM3W-E	HWT-602S21ST6W-E
Tank volume	l	210	210
Supply water temperature (min.-max.)	°C	20/55	20/55
Supply water temperature (min.-max.)	°C	7/25	7/25
Backup heater, capacity	kW	3	6
Water flow rate (min.)	m³/h	0,66	0,66
Water pump, discharge head (max.)	m	7,2	7,2
Sound power level	dB(A)  /	40 / 40	40 / 40
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670
<b>Price</b>	<b>€</b>	<b>9.260,-</b>	<b>9.325,-</b>

# ESTIA 8 kW Hydrobox / Set

- › Set consisting of outdoor unit and Hydrobox Compact
- › A+++ in heating mode
- › Supply water temperature up to +65°C
- › Heating operation down to -25°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



ESTIA

			Hydrobox Compact	Hydrobox Compact
			1-phase	3-phase
OUTDOOR UNIT			HWT-801HW-E	HWT-801H8W-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀	8,00	8,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	6,00	6,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 11,90	-
Sound power level	dB(A)	☀ / ❄	63 / 62	61 / 61
Sound power level (night operation)	dB(A)	☀	58	-
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	5,19	5,06
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,20	2,87
Energy efficiency class		☀	A+++	A+++
COP			4,40	-
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-230/1/50	380-415/3+N/50
Recommended fusing	A		20	-
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
<b>Price</b>	€		<b>4.090,-</b>	<b>5.550,-</b>

INDOOR UNIT			HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		6	9	6	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	40 / 40	40 / 40	40 / 40
Dimensions (HxWxD)	mm		720 x 450 x 235	720 x 450 x 235	725 x 450 x 235	725 x 450 x 235
<b>Price</b>	€		<b>4.620,-</b>	<b>4.850,-</b>	<b>4.620,-</b>	<b>4.850,-</b>



## ESTIA 8 kW AIO / Set

- › Set consisting of outdoor unit and all-in-one indoor unit
- › A+++ in heating mode
- › Supply water temperature up to +65°C
- › Heating operation down to -25°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



OUTDOOR UNIT	All-in-One 1-phase		All-in-One 3-phase	
	HWT-801HW-E		HWT-801H8W-E	
Heating capacity @ A+7/W+35 (nom.)	kW	☀	8,00	8,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	-	6,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 11,90	-
Sound power level	dB(A)	☀ / ❄	63 / 62	61 / 61
Sound power level (night operation)	dB(A)	☀	58	-
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	-	5,06
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	-	2,87
Energy efficiency class		☀	A+++	A+++
COP			-	-
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-230/1/50	380-415/3+N/50
Recommended fusing	A		20	-
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
<b>Price</b>	€		<b>4.090,-</b>	<b>5.550,-</b>

INDOOR UNIT	1 zone		2 zones	
	HWT-1102S21ST9W-E		HWT-1102S21MT9W-E	
Tank volume	l	210	210	210
Supply water temperature (min.-max.)	°C	☀	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25
Backup heater, capacity	kW	9	9	9
Water flow rate (min.)	m³/h	0,78	0,78	0,78
Water pump, discharge head (max.)	m	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	45 / 45
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
<b>Price</b>	€	<b>9.455,-</b>	<b>10.620,-</b>	<b>10.620,-</b>

# ESTIA 11 kW

## Hydrobox / Set

- › Set consisting of outdoor unit and Hydrobox Compact, Standard or Hi Power
- › A+++ in heating mode (Compact), A++ (Standard & Hi Power)
- › Supply water temperature up to +65°C (Compact), +55°C (Standard), +60°C (Hi Power)
- › Heating operation down to -25°C (Compact & Hi Power), -20°C (Standard)
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V (Compact)
- › Comfort control, optionally via Modbus, KNX (Standard & Hi Power)



			Hydrobox Compact 1-phase	Hydrobox Compact 3-phase	Hydrobox Standard 3-phase	Hydrobox Hi Power 3-phase
			HWT-1101HW-E	HWT-1101H8W-E	HWS-1105H8-E	HWS-P1105H8R-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀	11,00	11,00	11,20	11,20
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	8,00	8,00	10,00	10,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 13,24	-	2,69 - 14,73	2,21 - 18,00
Sound power level	dB(A)	☀/❄	64 / 62	61 / 61	64 / 66	64 / 66
Sound power level (night operation)	dB(A)	☀	62	-	61	61
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60	4,74	4,80	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,80	2,62	3,07	3,00
Energy efficiency class		☀	A+++	A+++	A++	A+++
COP			4,30	-	4,42	0,00
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25	-20 / +43	-25 / +43
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43	+15 / +43	+15 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-230/1/50	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		20	-	3 x 16	3 x 16
Refrigerant			R32	R32	R410A	R410A
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320
<b>Price</b>	€		<b>4.580,-</b>	<b>6.790,-</b>	<b>4.540,-</b>	<b>5.795,-</b>

INDOOR UNIT			HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWS-1405XWHT9-E	HWS-P1105XWHT6-E	HWS-P1105XWHT9-E
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65	20/55	20/60	20/60
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		6	9	6	9	9	6	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78	1,05	1,05	1,05
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2	8,8	8,8	8,8
Sound power level	dB(A)	☀/❄	40 / 40	40 / 40	40 / 40	40 / 40	43 / 43	43 / 43	43 / 43
Dimensions (HxWxD)	mm		725 x 450 x 235	725 x 450 x 235	725 x 450 x 235	725 x 450 x 235	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
<b>Price</b>	€		<b>4.620,-</b>	<b>4.850,-</b>	<b>4.620,-</b>	<b>4.850,-</b>	<b>5.735,-</b>	<b>5.615,-</b>	<b>5.735,-</b>





# ESTIA 11 kW

## AIO / Set

- › Set consisting of outdoor unit and all-in-one indoor unit
- › A+++ in heating mode
- › Supply water temperature up to +65°C
- › Heating operation down to -25°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V


**ESTIA**

			All-in-One 1-phase	All-in-One 3-phase
OUTDOOR UNIT			HWT-1101HW-E	HWT-1101H8W-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀	11,00	11,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	-	8,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	1,01 - 13,24	-
Sound power level	dB(A)	☀ / ❄	64 / 62	61 / 61
Sound power level (night operation)	dB(A)	☀	62	-
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	-	4,74
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	-	2,62
Energy efficiency class		☀	A+++	A+++
COP			-	-
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-230/1/50	380-415/3+N/50
Recommended fusing	A		20	-
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
<b>Price</b>	<b>€</b>		<b>4.580,-</b>	<b>6.790,-</b>

			1 zone	2 zones	1 zone	2 zones
INDOOR UNIT			HWT-1102S21ST9W-E	HWT-1102S21MT9W-E	HWT-1102S21ST9W-E	HWT-1102S21MT9W-E
Tank volume	l		210	210	210	210
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		9	9	9	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	40 / 40	40 / 40	40 / 40	40 / 40
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
<b>Price</b>	<b>€</b>		<b>9.455,-</b>	<b>10.620,-</b>	<b>9.455,-</b>	<b>10.620,-</b>

# ESTIA 14 kW Hydrobox / Set

- › Set consisting of outdoor unit and Hydrobox Compact, Standard or Hi Power
- › A+++ in heating mode (Compact), A++ (Standard & Hi Power)
- › Supply water temperature up to +65°C (Compact), +55°C (Standard), +60°C (Hi Power)
- › Heating operation down to -25°C (Compact & Hi Power), -20°C (Standard)
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V (Compact)
- › Comfort control, optionally via Modbus, KNX (Standard & Hi Power)



		Hydrobox Compact		Hydrobox Standard	Hydrobox Standard	Hydrobox Hi Power
		1-phase	3-phase	1-phase	3-phase	3-phase
OUTDOOR UNIT		HWT-1401HW-E	HWT-1401H8W-E	HWS-1405H-E	HWS-1405H8-E	HWS-P1405H8R-E
Heating capacity @ A+7/W+35 (nom.)	kW	14,00	14,00	14,00	14,00	14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	10,00	10,00	11,00	11,00	11,00
Heating range @A+7/W+35 (min. – max.)	kW	-	-	2,92 - 16,74	2,48 - 14,81	2,21 - 21,10
Sound power level	dB(A)	70 / 70	62 / 63	68 / 68	68 / 68	68 / 68
Sound power level (night operation)	dB(A)	62	-	61	61	61
Energy efficiency COP @ A+7/W+35 (nom.)	WW	4,60	4,60	4,50	4,44	4,44
Energy efficiency EER @ A+35/W+7 (nom.)	WW	2,45	2,45	2,89	2,89	2,82
Energy efficiency class		A+++	A+++	A++	A++	A++
COP		-	-	4,03	4,23	0,00
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25	-20 / +43	-20 / +43	-25 / +43
Outdoor temperature operating range (min.-max.)	°C	+10 / +43	+10 / +43	+15 / +43	+15 / +43	+15 / +43
Outdoor unit power supply	V/Ph+N/Hz	220-230/1/50	380-415/3+N/50	220-230/1/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	20	-	25	3 x 16	3 x 16
Refrigerant		R32	R32	R410A	R410A	R410A
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Price	€	5.800,-	7.380,-	4.780,-	4.980,-	6.090,-

INDOOR UNIT		HWT-1401XWHT9W-E		HWS-1405XWHT6-E	HWS-1405XWHT9-E	HWS-1405XWHT6-E	HWS-1405XWHT9-E	HWS-P1105XWHT6-E	HWS-P1105XWHT9-E
Supply water temperature (min.-max.)	°C	20/65	20/65	20/55	20/55	20/55	20/55	20/60	20/60
Supply water temperature (min.-max.)	°C	7/25	7/25	7/25	7/25	7/25	7/25	7/25	7/25
Backup heater, capacity	kW	9	9	6	9	6	9	6	9
Water flow rate (min.)	m³/h	0,78	0,78	1,05	1,05	1,05	1,05	1,05	1,05
Water pump, discharge head (max.)	m	7,2	7,2	8,8	8,8	8,8	8,8	8,8	8,8
Sound power level	dB(A)	40 / 40	40 / 40	43 / 43	43 / 43	43 / 43	43 / 43	43 / 43	43 / 43
Dimensions (HxWxD)	mm	725 x 450 x 235	725 x 450 x 235	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
Price	€	5.450,-	5.450,-	5.615,-	5.735,-	5.615,-	5.735,-	5.615,-	5.735,-



# ESTIA 14 kW AIO / Set



- > Set consisting of outdoor unit and all-in-one indoor unit
- > A+++ in heating mode
- > Supply water temperature up to +65°C
- > Heating operation down to -25°C
- > Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V



ESTIA

			All-in-One 1-phase HWT-1401HW-E	All-in-One 3-phase HWT-1401H8W-E
<b>OUTDOOR UNIT</b>				
Heating capacity @ A+7/W+35 (nom.)	kW	☀	14,00	14,00
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	10,00	10,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	-	-
Sound power level	dB(A)	☀ / ❄	70 / 70	62 / 63
Sound power level (night operation)	dB(A)	☀	62	-
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,60	4,60
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,45	2,45
Energy efficiency class		☀	A+++	A+++
COP			-	-
Outdoor temperature operating range (min.-max.)	°C	☀	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43	+10 / +43
Outdoor unit power supply	V/Ph+N/Hz		220-230/1/50	380-415/3+N/50
Recommended fusing	A		20	-
Refrigerant			R32	R32
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370
<b>Price</b>	€		<b>5.800,-</b>	<b>7.380,-</b>

			1 zone HWT-1402S21ST9W-E	2 zones HWT-1402S21MT9W-E	1 zone HWT-1402S21ST9W-E	2 zones HWT-1402S21MT9W-E
<b>INDOOR UNIT</b>						
Tank volume	l		210	210	210	210
Supply water temperature (min.-max.)	°C	☀	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	❄	7/25	7/25	7/25	7/25
Backup heater, capacity	kW		9	9	9	9
Water flow rate (min.)	m³/h		0,78	0,78	0,78	0,78
Water pump, discharge head (max.)	m		7,2	7,2	7,2	7,2
Sound power level	dB(A)	☀ / ❄	- / -	- / -	- / -	- / -
Dimensions (HxWxD)	mm		1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
<b>Price</b>	€		<b>9.990,-</b>	<b>11.100,-</b>	<b>9.990,-</b>	<b>11.100,-</b>

# ESTIA 16 kW Hydrobox / Set

- › Set consisting of outdoor unit and Hydrobox Standard
- › A++ in heating mode
- › Supply water temperature up to +55°C
- › Heating operation down to -20°C
- › Comfort control, optionally via Modbus, KNX



## Hydrobox Standard

OUTDOOR UNIT		3-phase
		HWS-1605H8-E
Heating capacity @ A+7/W+35 (nom.)	kW	16,00
Cooling capacity @ A+35/W+7 (nom.)	kW	13,00
Heating range @A+7/W+35 (min. - max.)	kW	2,52 - 17,43
Sound power level	dB(A)  /	69 / 69
Sound power level (night operation)	dB(A)	61
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,30
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,71
Energy efficiency class		A++
COP		4,10
Outdoor temperature operating range (min.-max.)	°C	-20 / +43
Outdoor temperature operating range (min.-max.)	°C	+15 / +43
Outdoor unit power supply	V/Ph+N/Hz	380-415/3+N/50
Recommended fusing	A	3 x 16
Refrigerant		R410A
Dimensions (HxWxD)	mm	1340 x 900 x 320
<b>Price</b>	<b>€</b>	<b>5.980,-</b>

INDOOR UNIT		HWS-1405XWHT9-E
Supply water temperature (min.-max.)	°C	20/55
Supply water temperature (min.-max.)	°C	7/25
Backup heater, capacity	kW	9
Water flow rate (min.)	m³/h	1,05
Water pump, discharge head (max.)	m	8,8
Sound power level	dB(A)  /	43 / 43
Dimensions (HxWxD)	mm	925 x 525 x 355
<b>Price</b>	<b>€</b>	<b>5.735,-</b>







## ESTIA Warranty

TOSHIBA represents outstanding quality, as demonstrated by the excellent levels of efficiency. For the ESTIA, TOSHIBA offers a 5-year warranty for the unit's key component – the compressor.

### 5-YEAR COMPRESSOR WARRANTY

You automatically receive a 5-year warranty on the ESTIA compressor.

### EXTENDED WARRANTY

An extended warranty of 4 or 5 years is also possible for all other components.

**5** years  
warranty  
compressors

ESTIA



# ESTIA 4 kW outdoor unit

- › Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- › Compact & efficient – very quiet in silent mode / night operation mode
- › A+++ in heating mode
- › Supply water temperature up to +55°C
- › Heating operation down to -20°C



OUTDOOR UNIT			Compact - 1-phase
			HWT-401HW-E
Heating capacity @ A+7/W+35 (nom.)	kW	❄️	4,00
Heating range @A+7/W+35 (min. – max.)	kW	❄️	0,79 - 7,25
Power consumption @ A+7/W+35 (nom.)	kW	❄️	0,77
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	❄️	5,20
Heating capacity @ A+2/W+35 (max.)	kW	❄️	6,42
Power consumption @ A+2/W+35 (max.)	kW	❄️	1,52
Energy efficiency COP @ A+2/W+35 (max.)	W/W	❄️	4,22
Heating capacity @ A-7/W+35 (max.)	W/W	❄️	4,80
Energy efficiency class		❄️	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄️	4,00
Power consumption @ A+35/W+7 (nom.)	kW	❄️	1,16
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄️	3,45
Energy efficiency class		❄️	-
COP			4,30
Power supply	V/Ph+N/Hz		220-230/1/50
Running current (max.)	A		14,60
Starting current	A		Softstart
Recommended fusing	A		16
Outdoor temperature operating range (min.-max.)	°C	❄️	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄️	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (¼)
Suction gas pipe diameter	mm (inch)		12,7 (½)
Pipe length (min.)	m		5
Pipe length (max.)	m		30
Height difference (max.)	m		30
Sound power level	dB(A)	❄️	59
Sound power level	dB(A)	❄️	60
Sound power level (night operation)	dB(A)	❄️	54
Sound power level (max.)	dB(A)		65
Sound pressure level (low/med/high)	dB(A)	❄️	45
Sound pressure level (low/med/high)	dB(A)	❄️	46
Sound pressure level (night operation)	dB(A)	❄️	32
Refrigerant			R32
Refrigerant charge	kg		0,9
Dimensions (HxWxD)	mm		630 x 800 x 300
Weight	kg		42
<b>Price</b>	<b>€</b>		<b>2.090,-</b>

Values measured as defined in EN14511, including defrost



## ESTIA 6 kW outdoor unit

- › Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- › Compact & efficient – very quiet in silent mode / night operation mode
- › A+++ in heating mode
- › Supply water temperature up to +55°C
- › Heating operation down to -20°C



		Compact - 1-phase	
OUTDOOR UNIT		HWT-601HW-E	
Heating capacity @ A+7/W+35 (nom.)	kW	✳	6,00
Heating range @A+7/W+35 (min. – max.)	kW	✳	0,80 - 7,25
Power consumption @ A+7/W+35 (nom.)	kW	✳	1,25
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	✳	4,80
Heating capacity @ A+2/W+35 (max.)	kW	✳	6,42
Power consumption @ A+2/W+35 (max.)	kW	✳	1,52
Energy efficiency COP @ A+2/W+35 (max.)	W/W	✳	4,22
Heating capacity @ A-7/W+35 (max.)	W/W	✳	6,06
Energy efficiency class		✳	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	5,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	1,52
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	3,30
Energy efficiency class		❄	-
COP			4,30
Power supply	V/Ph+N/Hz		220-230/1/50
Running current (max.)	A		14,60
Starting current	A		Softstart
Recommended fusing	A		16
Outdoor temperature operating range (min.-max.)	°C	✳	-25 / +25
Outdoor temperature operating range (min.-max.)	°C	❄	+10 / +43
Liquid pipe diameter	mm (inch)		6,3 (¼)
Suction gas pipe diameter	mm (inch)		12,7 (½)
Pipe length (min.)	m		5
Pipe length (max.)	m		30
Height difference (max.)	m		30
Sound power level	dB(A)	✳	62
Sound power level	dB(A)	❄	61
Sound power level (night operation)	dB(A)	✳	58
Sound power level (max.)	dB(A)		65
Sound pressure level (low/med/high)	dB(A)	✳	46
Sound pressure level (low/med/high)	dB(A)	❄	45
Sound pressure level (night operation)	dB(A)	✳	36
Refrigerant			R32
Refrigerant charge	kg		0,9
Dimensions (HxWxD)	mm		630 x 800 x 300
Weight	kg		42
<b>Price</b>	<b>€</b>		<b>2.325,-</b>

# ESTIA 8 kW outdoor unit

- > Outdoor unit, for combining with Hydrobox Compact or all-in-one indoor unit
- > Compact & efficient – very quiet in silent mode / night operation mode
- > Compressor with liquid injection
- > A+++ in heating mode
- > Supply water temperature up to +65°C
- > Heating operation down to -25°C



		Compact - 1-phase	Compact 3-phase
OUTDOOR UNIT		HWT-801HW-E	HWT-801HW-E
Heating capacity @ A+7/W+35 (nom.)	kW *	8,00	8,00
Heating range @A+7/W+35 (min. – max.)	kW *	1,01 - 11,90	-
Power consumption @ A+7/W+35 (nom.)	kW *	1,54	-
Energy efficiency COP @ A+7/W+35 (nom.)	W/W *	5,19	5,06
Heating capacity @ A+2/W+35 (max.)	kW *	10,30	-
Power consumption @ A+2/W+35 (max.)	kW *	2,77	-
Energy efficiency COP @ A+2/W+35 (max.)	W/W *	3,72	-
Heating capacity @ A-7/W+35 (max.)	W/W *	8,11	-
Energy efficiency class	*	A+++	A+++
Cooling capacity @ A+35/W+7 (nom.)	kW ❄️	6,00	6,00
Power consumption @ A+35/W+7 (nom.)	kW ❄️	1,88	-
Energy efficiency EER @ A+35/W+7 (nom.)	W/W ❄️	3,20	2,87
Energy efficiency class	❄️	-	-
COP		4,40	-
Power supply	V/Ph+N/Hz	220-230/1/50	380-400/3+N/50
Running current (max.)	A	19,98	-
Starting current	A	Softstart	Softstart
Recommended fusing	A	20	-
Outdoor temperature operating range (min.-max.)	°C *	-25 / +25	-25 / +25
Outdoor temperature operating range (min.-max.)	°C ❄️	+10 / +43	+10 / +43
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	30	25
Height difference (max.)	m	30	25
Sound power level	dB(A) *	63	61
Sound power level	dB(A) ❄️	62	61
Sound power level (night operation)	dB(A) *	58	-
Sound power level (max.)	dB(A)	65	65
Sound pressure level (low/med/high)	dB(A) *	51	-
Sound pressure level (low/med/high)	dB(A) ❄️	50	48
Sound pressure level (night operation)	dB(A) *	36	49
Refrigerant		R32	R32
Refrigerant charge	kg	1,25	1,30
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	75	92
<b>Price</b>	<b>€</b>	<b>4.090,-</b>	<b>5.550,-</b>

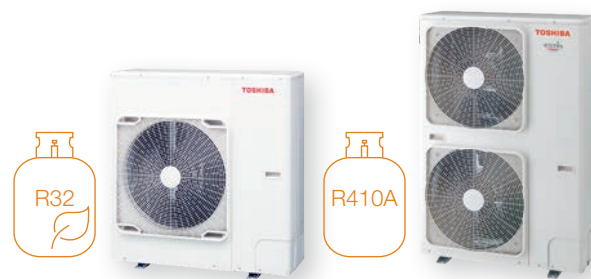
Values measured as defined in EN14511, including defrost





## ESTIA 11 kW outdoor unit

- Outdoor units, for combining with Hydrobox or all-in-one indoor units
- Compact & efficient – very quiet in silent mode / night operation mode
- Compressor with liquid injection (HWT)
- A+++ in heating mode (HWT), A++ (HWS)
- Supply water temperature up to +65°C (HWT), +55°C (Standard), +60°C (HWS Hi Power)
- Heating operation down to -25°C (HWT & HWS Hi Power), -20°C (HWS Standard)



OUTDOOR UNIT	Compact - 1-phase		Compact - 3-phase		Standard - 3-phase		Hi Power - 3-phase	
		HWT-1101HW-E	HWT-1101H8W-E	HWS-1105H8-E	HWS-P1105H8R-E			
Heating capacity @ A+7/W+35 (nom.)	kW	11,00	11,00	11,20	11,20			
Heating range @A+7/W+35 (min. – max.)	kW	1,01 - 13,24	-	2,69 - 14,73	2,21 - 18,00			
Power consumption @ A+7/W+35 (nom.)	kW	2,39	-	2,34	2,34			
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,60	4,74	4,80	4,80			
Heating capacity @ A+2/W+35 (max.)	kW	11,46	-	10,46	12,88			
Power consumption @ A+2/W+35 (max.)	kW	3,24	-	2,90	4,08			
Energy efficiency COP @ A+2/W+35 (max.)	W/W	3,54	-	3,61	3,16			
Heating capacity @ A-7/W+35 (max.)	W/W	9,10	-	9,50	11,63			
Energy efficiency class		A+++	A+++	A++	A+++			
Cooling capacity @ A+35/W+7 (nom.)	kW	8,00	8,00	10,00	10,00			
Power consumption @ A+35/W+7 (nom.)	kW	2,86	-	3,26	3,33			
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,80	2,62	3,07	3,00			
Energy efficiency class		-	-	A++	A++			
COP		4,30	-	4,42	0,00			
Power supply	V/Ph+N/Hz	220-230/1/50	380-400/3+N/50	380-400/3/50	380-400/3+N/50			
Running current (max.)	A	19,98	-	14,60	14,60			
Starting current	A	Softstart	Softstart	Softstart	Softstart			
Recommended fusing	A	20	-	3 x 16	3 x 16			
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25	-20 / +43	-25 / +43			
Outdoor temperature operating range (min.-max.)	°C	+10 / +43	+10 / +43	+15 / +43	+15 / +43			
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)			
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)			
Pipe length (min.)	m	5	5	5	5			
Pipe length (max.)	m	30	25	30	30			
Height difference (max.)	m	30	25	30	30			
Sound power level	dB(A)	64	61	64	64			
Sound power level	dB(A)	62	61	66	66			
Sound power level (night operation)	dB(A)	62	-	61	61			
Sound power level (max.)	dB(A)	65	65	66	67			
Sound pressure level (low/med/high)	dB(A)	51	-	51	52			
Sound pressure level (low/med/high)	dB(A)	49	-	51	52			
Sound pressure level (night operation)	dB(A)	40	-	-	-			
Refrigerant		R32	R32	R410A	R410A			
Refrigerant charge	kg	1,25	1,30	2,7	2,7			
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320			
Weight	kg	75	92	93	94			
Price	€	<b>4.580,-</b>	<b>6.790,-</b>	<b>4.540,-</b>	<b>5.795,-</b>			

# ESTIA 14 kW outdoor unit



- Outdoor units, for combining with Hydrobox or all-in-one indoor units
- Compact & efficient – very quiet in silent mode / night operation mode
- Compressor with liquid injection (HWT)
- A+++ in heating mode (HWT), A++ (HWS)
- Supply water temperature up to +65°C (HWT), +55°C (Standard), +60°C (HWS Hi Power)
- Heating operation down to -25°C (HWT & HWS Hi Power), -20°C (HWS Standard)

		Compact - 1-phase	Compact 3-phase	Standard - 1-phase	Standard - 3-phase	Hi Power - 3-phase
OUTDOOR UNIT		HWT-1401HW-E	HWT-1401H8W-E	HWS-1405H-E	HWS-1405H8-E	HWS-P1405H8R-E
Heating capacity @ A+7/W+35 (nom.)	kW	14,00	14,00	14,00	14,00	14,00
Heating range @A+7/W+35 (min. – max.)	kW	-	-	2,92 - 16,74	2,48 - 14,81	2,21 - 21,10
Power consumption @ A+7/W+35 (nom.)	kW	-	-	3,11	3,16	3,15
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	4,60	4,60	4,50	4,44	4,44
Heating capacity @ A+2/W+35 (max.)	kW	-	-	10,65	11,01	14,60
Power consumption @ A+2/W+35 (max.)	kW	-	-	3,20	3,21	4,85
Energy efficiency COP @ A+2/W+35 (max.)	W/W	-	-	3,33	3,44	3,01
Heating capacity @ A-7/W+35 (max.)	W/W	10,19	-	10,79	10,64	13,44
Energy efficiency class		A+++	A+++	A++	A++	A++
Cooling capacity @ A+35/W+7 (nom.)	kW	10,00	10,00	11,00	11,00	11,00
Power consumption @ A+35/W+7 (nom.)	kW	-	-	3,81	3,81	3,90
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	2,45	2,45	2,89	2,89	2,82
Energy efficiency class		-	-	A++	A++	A++
COP		-	-	4,03	4,23	0,00
Power supply	V/Ph+N/Hz	220-230/1/50	380-400/3+N/50	220-230/1/50	380-400/3/50	380-400/3+N/50
Running current (max.)	A	-	-	22,80	14,60	14,60
Starting current	A	Softstart	Softstart	Softstart	Softstart	Softstart
Recommended fusing	A	20	-	25	3 x 16	3 x 16
Outdoor temperature operating range (min.-max.)	°C	-25 / +25	-25 / +25	-20 / +43	-20 / +43	-25 / +43
Outdoor temperature operating range (min.-max.)	°C	+10 / +43	+10 / +43	+15 / +43	+15 / +43	+15 / +43
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Pipe length (min.)	m	5	5	5	5	5
Pipe length (max.)	m	25	25	30	30	30
Height difference (max.)	m	25	25	30	30	30
Sound power level	dB(A)	70	62	68	68	68
Sound power level	dB(A)	70	63	68	68	68
Sound power level (night operation)	dB(A)	62	-	61	61	61
Sound power level (max.)	dB(A)	72	72	68	68	68
Sound pressure level (low/med/high)	dB(A)	72	-	52	52	53
Sound pressure level (low/med/high)	dB(A)	70	-	52	52	53
Sound pressure level (night operation)	dB(A)	36	-	-	-	-
Refrigerant		R32	R32	R410A	R410A	R410A
Refrigerant charge	kg	1,40	1,40	2,7	2,7	2,7
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	88	92	92	93	93
Price	€	<b>5.800,-</b>	<b>7.380,-</b>	<b>4.780,-</b>	<b>4.980,-</b>	<b>6.090,-</b>

Values measured as defined in EN14511, including defrost

## ESTIA 16 kW outdoor unit

- › Outdoor unit, for combining with Hydrobox Standard indoor unit
- › Compact & efficient – very quiet in silent mode / night operation mode
- › A++ in heating mode
- › Supply water temperature up to +55°C
- › Heating operation down to -20°C



			Standard - 3-phase
OUTDOOR UNIT			HWS-1605H8-E
Heating capacity @ A+7/W+35 (nom.)	kW	☀	16,00
Heating range @A+7/W+35 (min. – max.)	kW	☀	2,52 - 17,43
Power consumption @ A+7/W+35 (nom.)	kW	☀	3,72
Energy efficiency COP @ A+7/W+35 (nom.)	W/W	☀	4,30
Heating capacity @ A+2/W+35 (max.)	kW	☀	11,61
Power consumption @ A+2/W+35 (max.)	kW	☀	3,46
Energy efficiency COP @ A+2/W+35 (max.)	W/W	☀	3,36
Heating capacity @ A-7/W+35 (max.)	W/W	☀	11,25
Energy efficiency class		☀	A++
Cooling capacity @ A+35/W+7 (nom.)	kW	❄	13,00
Power consumption @ A+35/W+7 (nom.)	kW	❄	4,80
Energy efficiency EER @ A+35/W+7 (nom.)	W/W	❄	2,71
Energy efficiency class		❄	A++
COP			4,10
Power supply	V/Ph+N/Hz		380-400/3+N/50
Running current (max.)	A		14,60
Starting current	A		Softstart
Recommended fusing	A		3 x 16
Outdoor temperature operating range (min.-max.)	°C	☀	-20 / +43
Outdoor temperature operating range (min.-max.)	°C	❄	+15 / +43
Liquid pipe diameter	mm (inch)		9,5 (3/8)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)
Pipe length (min.)	m		5
Pipe length (max.)	m		30
Height difference (max.)	m		30
Sound power level	dB(A)	☀	69
Sound power level	dB(A)	❄	69
Sound power level (night operation)	dB(A)	☀	61
Sound power level (max.)	dB(A)		69
Sound pressure level (low/med/high)	dB(A)	☀	53
Sound pressure level (low/med/high)	dB(A)	❄	53
Sound pressure level (night operation)	dB(A)	☀	-
Refrigerant			R410A
Refrigerant charge	kg		2,7
Dimensions (HxWxD)	mm		1340 x 900 x 320
Weight	kg		93
<b>Price</b>	<b>€</b>		<b>5.980,-</b>

# ESTIA Hydrobox

- > The renovation classic – Hydrobox Compact, Standard or Hi Power
- > A+++ in heating mode (Compact), A++ (Standard & Hi Power)
- > Supply water temperature up to +65°C (Compact), +55°C (Standard), +60°C (Hi Power)
- > Heating operation down to -25°C (Compact & Hi Power), -20°C (Standard)
- > Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V (Compact)
- > Comfort control, optionally via Modbus, KNX (Standard & Hi Power)



INDOOR UNIT		Compact					Standard	Hi Power	
		HWT-601XWHM3W-E	HWT-601XWHT6W-E	HWT-1101XWHT6W-E	HWT-1101XWHT9W-E	HWT-1401XWHT9W-E	HWS-1405XWHT9-E	HWS-P1105XWHT6-E	HWS-P1105XWHT9-E
Supply water temperature (min.-max.)	°C	20/55	20/55	20/65	20/65	20/65	20/55	20/60	20/60
Supply water temperature (min.-max.)	°C	7/25	7/25	7/25	7/25	7/25	7/25	7/25	7/25
Compatible outdoor units		401/601	401/601	801/1101	801/1101	1401	1105/1405/1605	P1105/P1405	P1105/P1405
Backup heater, capacity	kW	3	6	6	9	9	9	6	9
Backup heater, connection	Ph+N	220-230/1/50	380-400/3+N/50	380-400/3+N/50	380-400/3+N/50	380-400/3+N/50	380-400/3/50	380-400/3/50	380-400/3/50
Backup heater, recommend fusing	A	16	2x 16	2x 16	3x 16	3x 16	3x16	2x 16	3x 16
Water flow rate (min.)	m³/h	0,66	0,66	0,78	0,78	0,78	1,05	1,05	1,05
Water pump, power consumption (max.)	kW	0,060	0,060	0,060	0,060	0,060	0,190	0,190	0,190
Water pump, discharge head (max.)	m	7,2	7,2	7,2	7,2	7,2	8,8	8,8	8,8
Water pump, energy efficiency class		EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20	A	A	A
Expansion vessel	l	8	8	8	8	8	12	12	12
Water connection (inlet/outlet)	Inch	1	1	1	1	22	1 ¼	1 ¼	1 ¼
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Sound power level	dB(A)	40	40	40	40	40	43	43	43
Sound power level	dB(A)	40	40	40	40	40	43	43	43
Sound pressure level (low/med/high)	dB(A)	28	28	28	28	29	32	32	32
Sound pressure level (low/med/high)	dB(A)	28	28	28	28	29	32	32	32
Refrigerant		R32	R32	R32	R32	R32	R410A	R410A	R410A
Dimensions (HxWxD)	mm	720 x 450 x 235	720 x 450 x 235	720 x 450 x 235	720 x 450 x 235	725 x 450 x 235	925 x 525 x 355	925 x 525 x 355	925 x 525 x 355
Weight	kg	27	27	27	27	27	52	52	52
Price	€	3.915,-	4.080,-	4.620,-	4.850,-	5.450,-	5.735,-	5.615,-	5.735,-





# ESTIA All-in-One

- › Compact system with tank, perfect for new-builds
- › A+++ in heating mode
- › Supply water temperature up to +65°C
- › Heating operation down to -25°C
- › Comfort control, optionally via WiFi, Modbus, KNX or 0 – 10 V

- Series 2 features & enhancements:**
- › Light & durable stainless steel tank
  - › Recessed handles for ease of carrying
  - › Optional circulation kit
  - › All connections are threaded
  - › Optimized connecting terminal



INDOOR UNIT	1 zone				2 zones		
		HWT-602S21SM3W-E	HWT-602S21ST6W-E	HWT-1102S21ST9W-E	HWT-1402S21ST9W-E	HWT-1102S21MT9W-E	HWT-1402S21MT9W-E
Tank volume	l	210	210	210	210	210	210
Supply water temperature (min.-max.)	°C	20/55	20/55	20/65	20/65	20/65	20/65
Supply water temperature (min.-max.)	°C	7/25	7/25	7/25	7/25	7/25	7/25
Compatible outdoor units		401/601	401/601	801/1101	1401	801/1101	1401
Backup heater, capacity	kW	3	6	9	9	9	9
Backup heater, connection	Ph+N	220-230/1/50	380-400/3+N/50	380-400/3+N/50	380-400/3+N/50	380-400/3+N/50	380-400/3+N/50
Backup heater, recommend fusing	A	16	2x 16	3x 16	3x 16	3x 16	3x 16
Water flow rate (min.)	m³/h	0,66	0,66	0,78	0,78	0,78	0,78
Water pump, power consumption (max.)	kW	0,060	0,060	0,060	0,060	0,060	0,060
Water pump, discharge head (max.)	m	7,2	7,2	7,2	7,2	7,2	7,2
Water pump, energy efficiency class		EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20	EEI <0,20
Expansion vessel	l	-	-	8	8	8	8
Water connection (inlet/outlet)	Inch	-	-	1	1	1	1
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)	6,3 (¼)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Sound power level	dB(A)	40	40	40	-	45	-
Sound power level	dB(A)	40	40	40	-	45	-
Sound pressure level (low/med/high)	dB(A)	28	28	30	-	30	-
Sound pressure level (low/med/high)	dB(A)	28	28	24	-	24	-
Refrigerant		R32	R32	R32	R32	R32	R32
Dimensions (HxWxD)	mm	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670	1700 x 595 x 670
Weight	kg	116	116	116	116	122	122
<b>Price</b>	<b>€</b>	<b>9.260,-</b>	<b>9.325,-</b>	<b>9.455,-</b>	<b>9.990,-</b>	<b>10.620,-</b>	<b>11.100,-</b>

ESTIA

# ESTIA Hot Water Tank

- › Manufactured from stainless steel for durability



INDOOR UNIT		HWS-1501CSHM3-E	HWS-2101CSHM3-E	HWS-3001CSHM3-E
Tank volume	l	150	210	300
Water temperature (max.)	°C	75	75	75
Backup heater, capacity	W	2,75	2,75	2,75
Power supply	V/Ph+N/Hz	220-230/1/50	220-230/1/50	220-230/1/50
Dimensions (HxD)	mm	1090 x 550	1474 x 550	2040 x 550
Weight (dry/wet)	kg	31 / 181	41 / 251	60 / 360
<b>Price</b>	<b>€</b>	<b>1.955,-</b>	<b>2.325,-</b>	<b>2.770,-</b>

# ESTIA R32 Accessories



## ESTIA R32

ACCESSORIES	DESCRIPTION	PRICE €
<b>HWS-AMSU51-E</b>	External control unit (wired)	215,-
<b>HWS-IFAIP01U-E</b>	0-10 volt interface, for external control via 0-10 volt signals	360,-
<b>HWS-IWF0010UP-E</b>	ESTIA R32 WiFi Adapter	190,-
<b>95612037</b>	Temperature sensor for locally provided hot water tank	76,-
<b>BMS-IFKX0AWR-E</b>	KNX® interface, integration in building control systems, group control for up to 8 units	740,-
<b>BMS-IFMBOUEW-E</b>	Modbus interface, integration in building control systems, group control for up to 8 units	670,-

# ESTIA R410A Accessories



## ESTIA R410A

ACCESSORIES	DESCRIPTION	PRICE €
<b>HWS-AMS54E</b>	External control unit (wired)	245,-
<b>TCB-PCIN3E</b>	Enable signal for external heat generator and error signal output or compressor operating and defrosting signal outputs	195,-
<b>TCB-PCM03E</b>	Input for external room thermostat or input for emergency stop or external on/off	150,-
<b>95612037</b>	Temperature sensor for locally provided hot water tank	76,-
<b>VK320M0AIRC001</b>	Replacement flow switch, for sizes 8, 11, 14	90,-
<b>VK320M0AIRC002</b>	Replacement flow switch, for size 4	135,-
<b>BMS-IFKX0AWR-E</b>	KNX® interface, integration in building control systems, group control for up to 8 units	740,-
<b>BMS-IFMBOUEW-E</b>	Modbus interface, integration in building control systems, group control for up to 8 units	670,-



## Current Consumption + Fusing

TYPE	Running current (max.) A	Recommended fusing A	Power supply V/Ph+N/Hz	Recommended power supply line type	Communication line
<b>ESTIA 4kW</b>					
HWT-401HW-E	14,60	16	220-230/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
<b>ESTIA 6kW</b>					
HWT-601HW-E	14,60	16	220-230/1/50	H07RN-F 3G2,5	H07RN-F 4G1,5
<b>ESTIA 8kW</b>					
HWT-801HW-E	19,98	20	220-230/1/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWT-801H8W-E	-	-	380-400/3+N/50	-	H07RN-F 4G1,5
<b>ESTIA 11kW</b>					
HWT-1101HW-E	19,98	20	220-230/1/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWT-1101H8W-E	-	-	380-400/3+N/50	-	H07RN-F 4G1,5
HWS-1105H8-E	14,60	3 x 16	380-400/3/50	H07RN-F 5G2,5	H07RN-F 4G1,5
HWS-P1105H8R-E	14,60	3 x 16	380-400/3+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
<b>ESTIA 14kW</b>					
HWT-1401HW-E	-	20	220-230/1/50	-	H07RN-F 4G1,5
HWT-1401H8W-E	-	-	380-400/3+N/50	-	H07RN-F 4G1,5
HWS-1405H-E	22,80	25	220-230/1/50	H07RN-F 3G4,0	H07RN-F 4G1,5
HWS-1405H8-E	14,60	3 x 16	380-400/3/50	H07RN-F 5G2,5	H07RN-F 4G1,5
HWS-P1405H8R-E	14,60	3 x 16	380-400/3+N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
<b>ESTIA 16kW</b>					
HWS-1605H8-E	14,60	3 x 16	380-400/3+N/50	H07RN-F 5G2,5	H07RN-F 4G1,5



# Sound Power Level / Sound Pressure

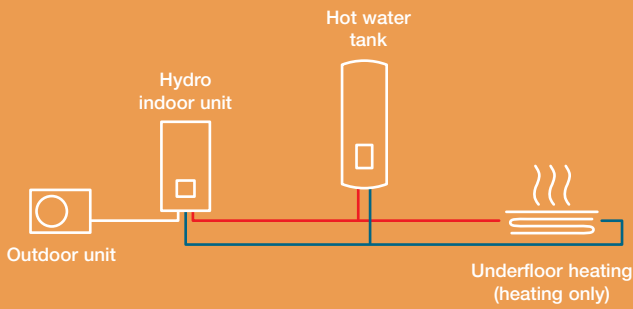
TYPE	Sound power level (max.) dB(A)	Sound power level dB(A) * / dB(A) *	Sound power level (night operation) dB(A) * / dB(A) *	Sound pressure level (low/med/high) dB(A) * / dB(A) *	Sound pressure level (night operation) dB(A) * / dB(A) *
<b>ESTIA 4kW</b>					
HWT-401HW-E	65	59 / 60	54 / 54	45 / 46	32 / 40
<b>ESTIA 6kW</b>					
HWT-601HW-E	65	62 / 61	58 / 58	46 / 45	36 / 42
<b>ESTIA 8kW</b>					
HWT-801HW-E	65	63 / 62	58 / 58	51 / 50	36 / 46
HWT-801H8W-E	65	61 / 61	- / -	- / 48	49 / -
<b>ESTIA 11kW</b>					
HWT-1101HW-E	65	64 / 62	62 / 62	51 / 49	40 / 49
HWT-1101H8W-E	65	61 / 61	- / -	- / -	- / -
HWS-1105H8-E	66	64 / 66	61 / 60	51 / 51	- / 46
HWS-P1105H8R-E	67	64 / 66	61 / 60	52 / 52	- / 46
<b>ESTIA 14kW</b>					
HWT-1401HW-E	72	70 / 70	62 / 63	72 / 70	- / 63
HWT-1401H8W-E	72	62 / 63	- / -	- / -	- / -
HWS-1405H-E	68	68 / 68	61 / 60	52 / 52	- / 46
HWS-1405H8-E	68	68 / 68	61 / 60	52 / 52	- / 46
HWS-P1405H8R-E	68	68 / 68	61 / 60	53 / 53	- / 46
<b>ESTIA 16kW</b>					
HWS-1605H8-E	69	69 / 69	61 / 60	53 / 53	- / 46





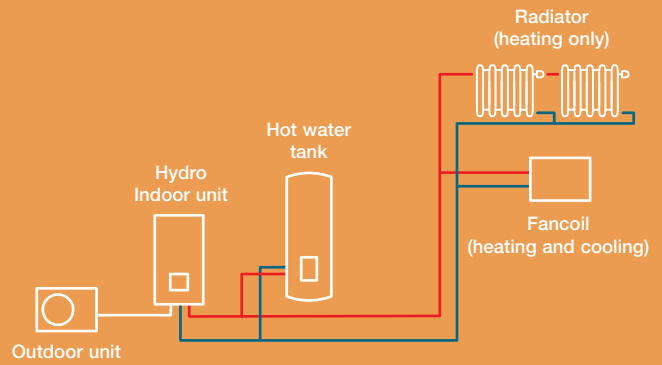
**1 ZONE WITH HEATING FUNCTION**

1 zone with heating function and hot water preparation



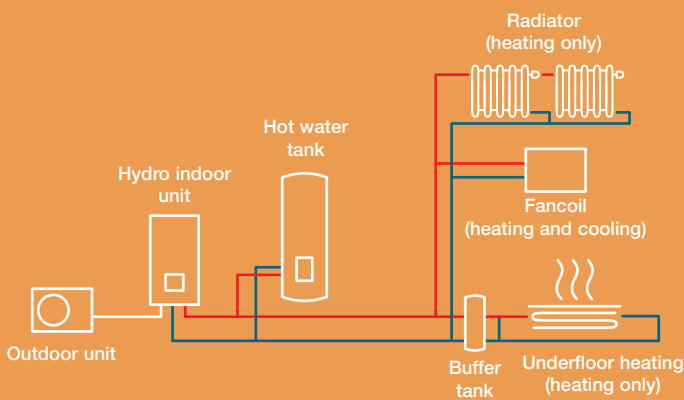
**1 ZONE WITH HEATING AND COOLING FUNCTION**

1 zone with heating and cooling function, plus hot water preparation



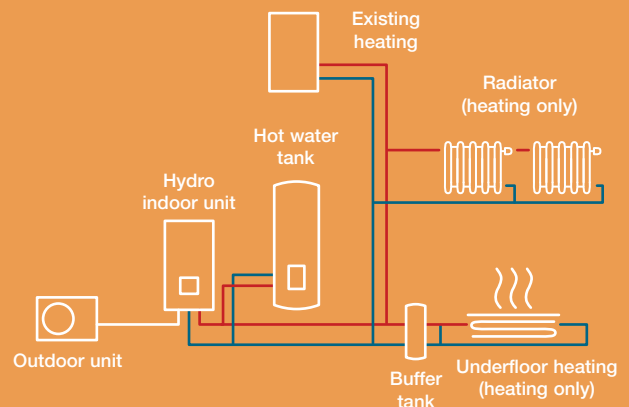
**2 ZONES WITH COOLING FUNCTION**

Typical application for a new building



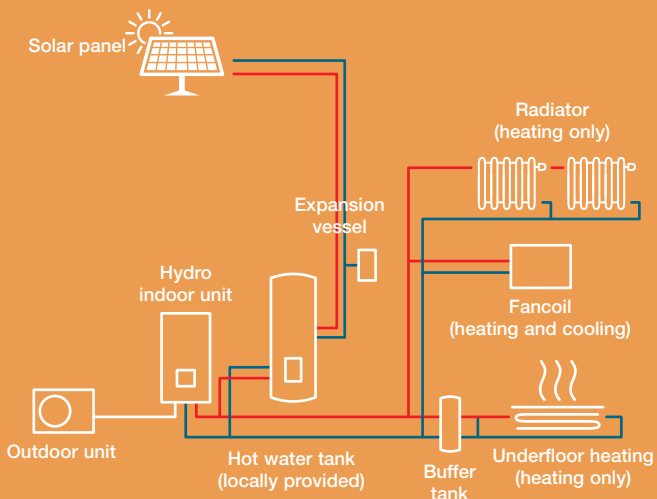
**2 ZONES WITH EXISTING HEATING SYSTEM**

Typical application for a building with existing heating system



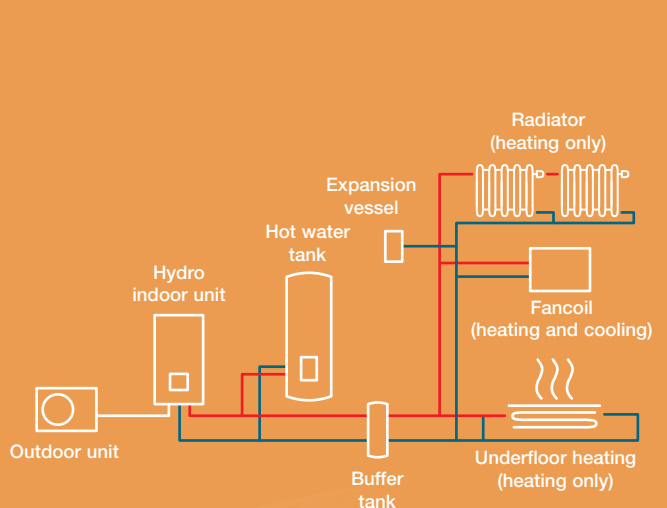
**2 ZONES WITH SOLAR AND COOLING FUNCTION**

Typical application for a new building



**2 ZONES WITH BUFFER TANK AND COOLING FUNCTION**

Typical application for a new building



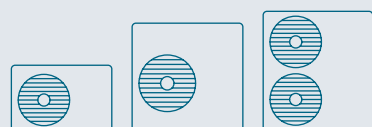
PLEASE NOTE: The examples shown above are purely symbolic diagrams.



BERNHARD R. MOSER Photography Hallein,  
Hasenbichler - Gesellschaft m.b.H.

# OVERVIEW OF RAV OUTDOOR UNITS

- › Reliable & durable partners for all commercial sectors
- › Efficiency up to A+++ for 24/7 usage
- › Controlled locally, centrally, or via BMS



## DIGITAL INVERTER (DI)

Cooling capacity: 2.5 | 3.6 | 5.0 | 6.7 | 8.0 | 10.0 | 12.0 | 14.0

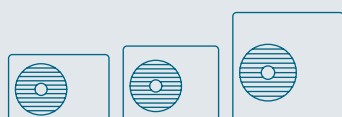
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## CLASSIC DIGITAL INVERTER (DI-C)

Cooling capacity: 5.0 | 6.7 | 10.0 | 12.0 | 14.0

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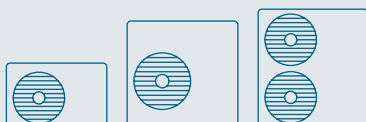


## NEXT DIGITAL INVERTER (DI NEXT)

Cooling capacity: 2.5 | 3.6 | 5.0 | 6.7 | 8.0 | 10.0 | 12.0 | 14.0



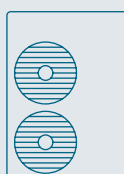
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## SUPER DIGITAL INVERTER (SDI)

Cooling capacity: 5.3 | 7.1 | 10.0 | 12.5 | 14.0

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## BIG DIGITAL INVERTER (DI BIG)

Cooling capacity: 19.4 | 22.5

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# OVERVIEW OF RAV INDOOR UNITS

## HIGH-WALL UNITS



### HIGH-WALL UNIT

Cooling capacity: 2.5 | 3.6 | 5.0 | 6.7 | 8.0  
DI, SDI, DI-C, DI NEXT, DI BIG

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### 10 KW HIGH-WALL UNIT

Cooling capacity: 9.5 | 10.0  
DI, SDI, DI-C, DI NEXT

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## CEILING UNITS



### CEILING UNIT

Cooling capacity: 3.6 | 5.0 | 6.9 | 8.0 | 9.5 | 12.1 | 14.0  
DI, SDI, DI NEXT, DI BIG

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## CASSETTE UNITS

### 60x60 SLIM CASSETTE

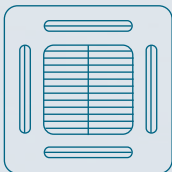
Cooling capacity: 2.5 | 3.6 | 5.0  
DI, SDI, DI NEXT, DI BIG

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### SMART CASSETTE

Cooling capacity: 5.0 | 7.1 | 10.0 | 12.5  
SDI, DI NEXT

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### 4-WAY STANDARD CASSETTE

Cooling capacity: 5.0 | 6.7 | 8.0 | 9.5 | 12.0 | 14.0  
DI, SDI, DI-C, DI NEXT, DI BIG

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### 1-WAY FLAT CASSETTE

Cooling capacity: 2.5 | 3.6  
DI NEXT



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**DUCT UNITS**

**SLIM DUCT UNIT**

Cooling capacity: 2.5 | 3.6 | 5.0  
DI, SDI, DI NEXT, DI BIG

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**STANDARD DUCT UNIT**

Cooling capacity: 5.0 | 6.7 | 8.0 | 9.5 | 12.1 | 14.0  
DI, SDI, DI-C, DI NEXT, DI BIG

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**HIGH-PRESSURE DUCT UNIT  
DIGITAL INVERTER BIG**

Cooling capacity: 19.0 | 22.5  
DI BIG

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**FLOOR STANDING UNITS**

**FLOOR STANDING UNIT**

Cooling capacity: 5.0 | 6.7 | 9.5 | 12.1 | 14.0  
DI, SDI, DI NEXT

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**SPECIAL SOLUTIONS**

**DIRECT EXPANSION KIT**

Cooling capacity: 2.5 – 23.0  
DI, SDI, DI NEXT, DI BIG

Page 102



**AIR CURTAIN**

Heating capacity: 8.0 – 16.0  
DI, SDI

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# High-wall unit

- Combined with CLASSIC outdoor unit
- Compact allrounder for all uses
- Efficiency up to A++, COP up to 4.00
- Whisper-quiet 5-speed fan
- Special features for server rooms: backup / rotation function, free-cooling control



## Digital Inverter CLASSIC – High-wall unit

		1-phase			3-phase
INDOOR UNIT		RAV-HM561KRTP-E RAV-GV561ATP-E	RAV-HM801KRTP-E RAV-GV801ATP-E	RAV-HM1101KRTP-E RAV-GV1101ATP-E	RAV-HM1101KRTP-E RAV-GV1101AT8P-E
Cooling capacity	kW ❄️	5,00	6,70	9,50	9,50
Cooling range (min.-max.)	kW ❄️	1,50 - 5,60	1,50 - 8,00	3,00 - 10,60	3,00 - 11,20
Power consumption (min./nom./max.)	kW ❄️	- /1,45/ -	- /2,20/ -	- /3,80/ -	- /3,40/ -
Energy efficiency EER	W/W ❄️	3,45	3,05	2,50	2,79
Energy efficiency SEER	❄️	6,20	5,75	6,00	3,10
Energy efficiency class	❄️	A++	A+	A+	A++
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️	5,30	7,00	10,00	10,00
Heating range (min.-max.)	kW ❄️	1,50 - 6,30	1,50 - 9,00	3,00 - 13,00	3,00 - 13,00
Power consumption (min./nom./max.)	kW ❄️	- /1,50/ -	- /2,20/ -	- /3,30/ -	- /3,20/ -
Energy efficiency COP	W/W ❄️	3,53	3,18	3,03	3,13
Energy efficiency SCOP	❄️	3,90	3,90	4,00	4,10
Energy efficiency class	❄️	A	A	A+	A+
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3+N/50
Recommended fusing	A	-	-	-	-
<b>Set price</b>	<b>€</b>	<b>2.160,-</b>	<b>2.620,-</b>	<b>3.325,-</b>	<b>3.700,-</b>

INDOOR UNIT		RAV-HM561KRTP-E	RAV-HM801KRTP-E	RAV-HM1101KRTP-E	RAV-HM1101KRTP-E
Airflow	m³/h	680/ - /960	680/910/1040	1180/ - /1610	1180/ - /1610
Sound pressure level (low/med/high)	dB(A) ❄️	35/39/42	35/41/45	41/45/49	41/45/49
Sound pressure level (low/med/high)	dB(A) ❄️	35/39/42	35/41/45	41/45/49	41/45/49
Dimensions (HxWxD)	mm	320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	348 x 1200 x 280
Weight	kg	14	14	19	19
<b>Price</b>	<b>€</b>	<b>720,-</b>	<b>745,-</b>	<b>935,-</b>	<b>935,-</b>

OUTDOOR UNIT		RAV-GV561ATP-E	RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1101AT8P-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	48	53	53
Sound pressure level (low/med/high)	dB(A) ❄️	48	51	55	55
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	20	20	30	30
Height difference (max.)	m	20	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,40	1,70	1,70
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320
Weight	kg	36	39	45	60
<b>Price</b>	<b>€</b>	<b>1.440,-</b>	<b>1.875,-</b>	<b>2.390,-</b>	<b>2.765,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RBC-AMSU52-E</b>	Wired comfort remote control PLUS		205,-

You will find all the control options from page 118.



# High-wall unit

- › Compact allrounder for all uses
- › Efficiency up to A++, COP up to 4.00
- › Whisper-quiet 5-speed fan



## Digital Inverter – High-wall unit

INDOOR UNIT OUTDOOR UNIT			RAV-RM801KRTP-E* RAV-GM801ATP-E	RAV-GM901KRTP-E* RAV-GM901ATP-E
Cooling capacity	kW	❄️	6,70	8,00
Cooling range (min.-max.)	kW	❄️	1,50 - 8,00	1,90 - 8,80
Power consumption (min./nom./max.)	kW	❄️	-/2,44/-	2,67
Energy efficiency EER	W/W	❄️	2,75	3,00
Energy efficiency SEER		❄️	5,73	6,10
Energy efficiency class		❄️	A+	A++
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15/+46
Heating capacity	kW	🔥	7,70	9,00
Heating range (min.-max.)	kW	🔥	1,50 - 9,00	1,6 - 9,90
Power consumption (min./nom./max.)	kW	🔥	-/2,61/-	2,90
Energy efficiency COP	W/W	🔥	2,95	3,10
Energy efficiency SCOP		🔥	4,01	4,10
Energy efficiency class		🔥	A+	A+
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15/+15
Power supply	V/Ph+N/Hz		220-240/1/50	220-240/1/50
Recommended fusing	A		16	-
<b>Set price</b>	<b>€</b>		<b>2.840,-</b>	<b>3.140,-</b>

INDOOR UNIT			RAV-RM801KRTP-E*	RAV-GM901KRTP-E*
Airflow	m³/h		680/910/1040	680/1180
Sound pressure level (low/med/high)	dB(A)	❄️	35/41/45	35/41/45
Sound pressure level (low/med/high)	dB(A)	🔥	35/41/45	35/41/45
Dimensions (HxWxD)	mm		320 x 1050 x 250	320 x 1050 x 250
Weight	kg		14	14
<b>Price</b>	<b>€</b>		<b>730,-</b>	<b>810,-</b>

OUTDOOR UNIT			RAV-GM801ATP-E	RAV-GM901ATP-E
Sound pressure level (low/med/high)	dB(A)	❄️	48	51
Sound pressure level (low/med/high)	dB(A)	🔥	52	55
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5
Pipe length (max.)	m		30	50
Height difference (max.)	m		30	30
Compressor type			Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32
Refrigerant charge	kg		1,3	2,0
Dimensions (HxWxD)	mm		550 x 780 x 290	600 x 800 x 300
Weight	kg		44	47
<b>Price</b>	<b>€</b>		<b>2.110,-</b>	<b>2.330,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.



## Super Digital Inverter – High-wall unit

INDOOR UNIT		RAV-HM561KRTP-E		RAV-RM801KRTP-E*	
OUTDOOR UNIT		RAV-GP561ATW-E		RAV-GP801ATW-E	
Cooling capacity	kW ❄️		5,00		7,10
Cooling range (min.-max.)	kW ❄️		1,20 - 5,60		1,90 - 8,00
Power consumption (min./nom./max.)	kW ❄️		0,19/1,43/1,98		0,26/2,06/3,17
Energy efficiency EER	W/W ❄️		3,50		3,45
Energy efficiency SEER	❄️		7,84		7,34
Energy efficiency class	❄️		A++		A+
Outdoor temperature operating range (min.-max.)	°C ❄️		-15 / +52		-15 / +52
Heating capacity	kW ❄️		5,60		8,00
Heating range (min.-max.)	kW ❄️		0,90 - 7,30		1,30 - 11,30
Power consumption (min./nom./max.)	kW ❄️		0,16/1,39/2,67		0,20/2,25/3,50
Energy efficiency COP	W/W ❄️		4,03		3,56
Energy efficiency SCOP	❄️		4,19		4,13
Energy efficiency class	❄️		A+		A+
Outdoor temperature operating range (min.-max.)	°C ❄️		-27 / +15		-27 / +15
Power supply	V/Ph+N/Hz		220-240/1/50		220-240/1/50
Recommended fusing	A		-		20
<b>Set price</b>	<b>€</b>		<b>2.920,-</b>		<b>3.570,-</b>

INDOOR UNIT		RAV-HM561KRTP-E		RAV-RM801KRTP-E*	
Airflow	m³/h		680/ - /960		680/910/1040
Sound pressure level (low/med/high)	dB(A) ❄️		35/39/42		35/41/45
Sound pressure level (low/med/high)	dB(A) ❄️		35/39/42		35/41/45
Dimensions (HxWxD)	mm		320 x 1050 x 250		320 x 1050 x 250
Weight	kg		14		14
<b>Price</b>	<b>€</b>		<b>720,-</b>		<b>730,-</b>

OUTDOOR UNIT		RAV-GP561ATW-E		RAV-GP801ATW-E	
Sound pressure level (low/med/high)	dB(A) ❄️		46		46
Sound pressure level (low/med/high)	dB(A) ❄️		48		48
Suction gas pipe diameter	mm (inch)		12,7 (½)		15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)		9,5 (3/8)
Pipe length (min.)	m		5		3
Pipe length (max.)	m		50		50
Height difference (max.)	m		30		30
Compressor type			Twin-Rotary		Twin-Rotary
Refrigerant			R32		R32
Refrigerant charge	kg		1,35		1,3
Dimensions (HxWxD)	mm		630 x 799 x 299		1050 x 1010 x 370
Weight	kg		45		74
<b>Price</b>	<b>€</b>		<b>2.200,-</b>		<b>2.840,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RBC-AMSU52-E</b>	Wired comfort remote control PLUS		205,-

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.

# High-wall unit



- › Combined with CLASSIC outdoor unit
- › Compact allrounder for all uses
- › Efficiency up to A++, COP up to 4.00
- › Whisper-quiet 5-speed fan
- › Special features for server rooms: backup / rotation function, free-cooling control



## Digital Inverter NEXT – High-wall unit

INDOOR UNIT OUTDOOR UNIT		RAV-HM301KRTP-E RAV-GM302ATP-E	RAV-HM401KRTP-E RAV-GM402ATP-E	RAV-HM561KRTP-E RAV-GM562ATP-E	RAV-HM801KRTP-E RAV-GM802ATW-E	RAV-HM901KRTP-E RAV-GM902ATW-E
Cooling capacity	kW ❄️	2,50	3,60	5,00	6,70	8,00
Cooling range (min.-max.)	kW ❄️	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80
Power consumption (min./nom./max.)	kW ❄️	0,17/0,61/ 0,86	0,18/1,13/ 2,00	0,30/1,66/ 1,86	0,31/2,06/ 2,86	0,31/2,67/ 3,16
Energy efficiency EER	W/W ❄️	4,10	3,19	3,01	3,25	3,00
Energy efficiency SEER	❄️	7,00	6,70	6,69	6,60	6,60
Energy efficiency class	❄️	A++	A++	A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️	3,40	4,00	5,30	7,70	8,60
Heating range (min.-max.)	kW ❄️	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90
Power consumption (min./nom./max.)	kW ❄️	0,17/0,85/ 1,40	0,14/1,12/ 1,70	0,30/1,55/ 2,40	0,38/2,30/ 3,04	0,38/2,61/ 3,27
Energy efficiency COP	W/W ❄️	4,00	3,57	3,42	3,35	3,30
Energy efficiency SCOP	❄️	4,12	4,24	4,02	4,05	4,10
Energy efficiency class	❄️	A+	A+	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A	-	-	-	-	-
<b>Set price</b>	<b>€</b>	<b>1.935,-</b>	<b>2.270,-</b>	<b>2.640,-</b>	<b>3.195,-</b>	<b>3.505,-</b>

INDOOR UNIT		RAV-HM301KRTP-E	RAV-HM401KRTP-E	RAV-HM561KRTP-E	RAV-HM801KRTP-E	RAV-HM901KRTP-E
Airflow	m³/h	450/540/ 670	450/580/ 700	680 / - / 960	680/910/ 1040	680 / - / 1180
Sound pressure level (low/med/high)	dB(A) ❄️	29/34/40	30/36/41	35/39/42	35/41/45	35/41/47
Sound pressure level (low/med/high)	dB(A) ❄️	29/34/40	30/36/41	35/39/42	35/41/45	35/41/47
Dimensions (HxWxD)	mm	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250
Weight	kg	10	10	14	14	14
<b>Price</b>	<b>€</b>	<b>615,-</b>	<b>660,-</b>	<b>720,-</b>	<b>745,-</b>	<b>825,-</b>

OUTDOOR UNIT		RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	49	46	50	52
Sound pressure level (low/med/high)	dB(A) ❄️	47	50	48	52	55
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	2	2	5	5	5
Pipe length (max.)	m	20	20	30	50	50
Height difference (max.)	m	10	10	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,60	0,90	0,90	1,90	1,90
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299
Weight	kg	29	34	40	47	47
<b>Price</b>	<b>€</b>	<b>1.320,-</b>	<b>1.610,-</b>	<b>1.920,-</b>	<b>2.450,-</b>	<b>2.680,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RBC-AMSU52-E</b>	Wired comfort remote control PLUS		<b>205,-</b>

You will find all the control options from page 118.



# 10 kW high-wall unit

- › Maximum power combined with super-simple installation
- › Efficiency up to A++, COP up to 4.00
- › Whisper-quiet 5-speed fan
- › Special features for server rooms:  
backup / rotation function, free-cooling control



## Digital Inverter NEXT – 10 kW high-wall unit

		1-phase		3-phase	
		RAV-HM1101KRTP-E RAV-GM1102ATW-E		RAV-HM1101KRTP-E RAV-GM1102AT8W-E	
COOLING UNIT					
Outdoor UNIT					
Cooling capacity	kW ❄️		9,50		9,50
Cooling range (min.-max.)	kW ❄️		3,00 - 11,20		3,00 - 11,20
Power consumption (min./nom./max.)	kW ❄️		0,63/2,96/3,95		0,67/2,95/3,91
Energy efficiency EER	W/W ❄️		3,21		3,22
Energy efficiency SEER	❄️		6,40		6,10
Energy efficiency class	❄️		A++		A++
Outdoor temperature operating range (min.-max.)	°C ❄️		-15 / +46		-15 / +46
Heating capacity	kW 🔥		11,20		11,20
Heating range (min.-max.)	kW 🔥		3,00 - 13,00		3,00 - 13,00
Power consumption (min./nom./max.)	kW 🔥		0,73/3,44/4,33		0,77/3,38/4,29
Energy efficiency COP	W/W 🔥		3,26		3,31
Energy efficiency SCOP	🔥		4,20		4,20
Energy efficiency class	🔥		A+		A+
Outdoor temperature operating range (min.-max.)	°C 🔥		-15 / +15		-15 / +15
Power supply	V/Ph+N/Hz		220-240/1/50		380-415/3+N/50
Recommended fusing	A		-		-
<b>Set price</b>	<b>€</b>		<b>4.235,-</b>		<b>4.715,-</b>

INDOOR UNIT		RAV-HM1101KRTP-E		RAV-HM1101KRTP-E	
Airflow	m³/h		1180/ - /1610		1180/ - /1610
Sound pressure level (low/med/high)	dB(A) ❄️		41/45/49		41/45/49
Sound pressure level (low/med/high)	dB(A) 🔥		41/45/49		41/45/49
Dimensions (HxWxD)	mm		350 x 1200 x 280		350 x 1200 x 280
Weight	kg		19		19
<b>Price</b>	<b>€</b>		<b>935,-</b>		<b>935,-</b>

OUTDOOR UNIT		RAV-GM1102ATW-E		RAV-GM1102AT8W-E	
Sound pressure level (low/med/high)	dB(A) ❄️		53		53
Sound pressure level (low/med/high)	dB(A) 🔥		56		56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)		15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)		9,5 (3/8)
Pipe length (min.)	m		5		5
Pipe length (max.)	m		50		50
Height difference (max.)	m		30		30
Compressor type			Twin-Rotary		Twin-Rotary
Refrigerant			R32		R32
Refrigerant charge	kg		2,40		2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370		1050 x 1010 x 370
Weight	kg		85		85
<b>Price</b>	<b>€</b>		<b>3.300,-</b>		<b>3.780,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	
RBC-AMSU52-E	Wired comfort remote control PLUS		205,-

You will find all the control options from page 118.

# Ceiling unit

- Attractive design for optimum air distribution
- Efficiency up to A+++
- Large air throw distances
- Special features for server rooms: backup / rotation function, free-cooling control



## Digital Inverter – Ceiling unit – 1-phase

INDOOR UNIT OUTDOOR UNIT		RAV-RM401CTP-E* RAV-GM401ATP-E	RAV-RM561CTP-E* RAV-GM561ATP-E	RAV-RM1101CTP-E* RAV-GM1101ATP-E	RAV-RM1401CTP-E* RAV-GM1401ATP-E	RAV-RM1601CTP-E* RAV-GM1601ATP-E
Cooling capacity	kW ❄️	3,60	5,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️	0,90 - 4,00	1,50 - 5,60	3,00 - 11,20	3,00 - 13,20	3,00 - 16,00
Power consumption (min./nom./max.)	kW ❄️	0,18/0,83/ 2,00	0,29/1,61/ 1,95	0,60/2,95/ 4,10	0,60/4,42/ 4,71	4,65
Energy efficiency EER	W/W ❄️	4,34	3,11	3,22	2,74	3,01
Energy efficiency SEER	❄️	6,34	5,50	5,86	5,36	5,90
Energy efficiency class	❄️	A++	A	A+	A+	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️	4,00	5,30	11,20	13,00	16,00
Heating range (min.-max.)	kW ❄️	0,80 - 5,00	1,50 - 6,30	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW ❄️	0,14/0,78/ 1,70	0,29/1,36/ 2,40	0,60/2,94/ 4,10	0,60/3,48/ 4,60	4,69
Energy efficiency COP	W/W ❄️	5,13	3,90	3,81	3,74	3,47
Energy efficiency SCOP	❄️	5,10	4,32	4,27	4,19	4,35
Energy efficiency class	❄️	A+++	A+	A+	A+	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A	10	16	25	25	-
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>	<b>2.770,-</b>	<b>3.035,-</b>	<b>4.515,-</b>	<b>4.915,-</b>	<b>6.025,-</b>

INDOOR UNIT		RAV-RM401CTP-E*	RAV-RM561CTP-E*	RAV-RM1101CTP-E*	RAV-RM1401CTP-E*	RAV-RM1601CTP-E*
Airflow	m³/h	540/720/ 900	540/720/ 900	1020/1350/ 1860	1200/1530/ 2040	1260/1650/ 2040
Sound pressure level (low/med/high)	dB(A) ❄️	28/35/37	28/35/37	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A) ❄️	28/35/37	28/35/37	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm	235 x 952 x 690	235 x 952 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	23	23	37	37	37
<b>Price</b>	<b>€</b>	<b>1.170,-</b>	<b>1.240,-</b>	<b>1.595,-</b>	<b>1.775,-</b>	<b>1.875,-</b>

OUTDOOR UNIT		RAV-GM401ATP-E	RAV-GM561ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1601ATP-E
Sound pressure level (low/med/high)	dB(A) ❄️	49	46	54	55	53
Sound pressure level (low/med/high)	dB(A) ❄️	50	48	57	57	55
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	2	5	5	5	5
Pipe length (max.)	m	20	30	50	50	50
Height difference (max.)	m	10	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,9	0,9	2,1	2,1	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
Weight	kg	34	40	68	68	95
<b>Price</b>	<b>€</b>	<b>1.450,-</b>	<b>1.645,-</b>	<b>2.770,-</b>	<b>2.990,-</b>	<b>4.000,-</b>

\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.



## Digital Inverter – Ceiling unit – 3-phase

INDOOR UNIT OUTDOOR UNIT		RAV-RM1101CTP-E* RAV-GM1101AT8P-E	RAV-RM1401CTP-E* RAV-GM1401AT8P-E	RAV-RM1601CTP-E* RAV-GM1601AT8P-E
Cooling capacity	kW ❄️	9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️	3,00 - 11,20	3,00 - 13,20	3,00 - 16,00
Power consumption (min./nom./max.)	kW ❄️	0,60/2,95/4,10	0,60/4,42/4,71	4,65
Energy efficiency EER	W/W ❄️	3,22	2,74	3,12
Energy efficiency SEER	❄️	5,86	5,36	5,90
Energy efficiency class	❄️	A++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW 🔥	11,20	13,00	16,00
Heating range (min.-max.)	kW 🔥	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW 🔥	0,60/2,94/4,10	0,60/3,48/4,60	4,69
Energy efficiency COP	W/W 🔥	3,81	3,74	3,47
Energy efficiency SCOP	🔥	4,27	4,19	4,35
Energy efficiency class	🔥	A+	-	-
Outdoor temperature operating range (min.-max.)	°C 🔥	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>	<b>4.760,-</b>	<b>5.150,-</b>	<b>6.605,-</b>

INDOOR UNIT		RAV-RM1101CTP-E*	RAV-RM1401CTP-E*	RAV-RM1601CTP-E*
Airflow	m³/h	1020/1350/1860	1200/1530/2040	1260/1650/2040
Sound pressure level (low/med/high)	dB(A) ❄️	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A) 🔥	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	37	37	37
<b>Price</b>	<b>€</b>	<b>1.595,-</b>	<b>1.775,-</b>	<b>1.875,-</b>

OUTDOOR UNIT		RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	RAV-GM1601AT8P-E
Sound pressure level (low/med/high)	dB(A) ❄️	54	55	53
Sound pressure level (low/med/high)	dB(A) 🔥	57	57	55
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	50	50	50
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,1	2,1	2,40
Dimensions (HxWxD)	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
Weight	kg	69	69	94
<b>Price</b>	<b>€</b>	<b>3.015,-</b>	<b>3.225,-</b>	<b>4.580,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.

## Super Digital Inverter – Ceiling unit – 1-phase

INDOOR UNIT OUTDOOR UNIT		RAV-RM561CTP-E* RAV-GP561ATW-E	RAV-HM801CTP-E RAV-GP801ATW-E	RAV-RM1101CTP-E* RAV-GP1101AT-E	RAV-RM1401CTP-E* RAV-GP1401AT-E1
Cooling capacity	kW ❄️	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW ❄️	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW ❄️	0,19/1,37/1,98	0,26/1,60/3,17	0,55/2,23/3,45	0,55/3,58/3,97
Energy efficiency EER	W/W ❄️	3,65	4,44	4,48	3,49
Energy efficiency SEER	❄️	6,76	8,35	8,23	7,58
Energy efficiency class	❄️	A++	A++	A++	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW 🔥	5,60	8,00	11,20	14,00
Heating range (min.-max.)	kW 🔥	0,90 - 7,40	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW 🔥	0,16/1,39/2,67	0,20/1,80/3,50	0,41/2,38/3,09	0,41/3,59/4,40
Energy efficiency COP	W/W 🔥	4,03	4,44	4,71	3,90
Energy efficiency SCOP	🔥	4,70	5,10	4,72	4,71
Energy efficiency class	🔥	A++	A++	A++	-
Outdoor temperature operating range (min.-max.)	°C 🔥	-27 / +15	-27 / +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A	16	-	25	25
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>	<b>3.590,-</b>	<b>4.420,-</b>	<b>6.045,-</b>	<b>6.675,-</b>

INDOOR UNIT		RAV-RM561CTP-E*	RAV-HM801CTP-E	RAV-RM1101CTP-E*	RAV-RM1401CTP-E*
Airflow	m³/h	540/720/900	750/1000/1410	1020/1350/1860	1200/1530/2040
Sound pressure level (low/med/high)	dB(A) ❄️	28/35/37	29/36/41	32/38/44	35/41/46
Sound pressure level (low/med/high)	dB(A) 🔥	28/35/37	29/36/41	32/38/44	35/41/46
Dimensions (HxWxD)	mm	235 x 952 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	23	29	35	35
<b>Price</b>	<b>€</b>	<b>1.240,-</b>	<b>1.430,-</b>	<b>1.595,-</b>	<b>1.775,-</b>

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A) ❄️	46	46	49	50
Sound pressure level (low/med/high)	dB(A) 🔥	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
<b>Price</b>	<b>€</b>	<b>2.200,-</b>	<b>2.840,-</b>	<b>4.300,-</b>	<b>4.750,-</b>

\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.

## Super Digital Inverter – Ceiling unit – 3-phase

INDOOR UNIT OUTDOOR UNIT		RAV-RM1101CTP-E* RAV-GP1101AT8-E	RAV-RM1401CTP-E* RAV-GP1401AT8-E	RAV-RM1601CTP-E* RAV-GP1601AT8-E
Cooling capacity	kW ❄️	10,00	12,50	14,00
Cooling range (min.-max.)	kW ❄️	2,60 - 12,00	2,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW ❄️	0,66/2,56/3,81	0,66/3,68/4,85	0,66/4,60/6,33
Energy efficiency EER	W/W ❄️	3,91	3,40	3,04
Energy efficiency SEER	❄️	6,61	6,30	6,00
Energy efficiency class	❄️	A++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️	11,20	14,00	16,00
Heating range (min.-max.)	kW ❄️	2,40 - 14,00	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW ❄️	0,53/2,51/4,26	0,53/3,48/5,95	0,53/4,30/6,96
Energy efficiency COP	W/W ❄️	4,46	4,02	3,72
Energy efficiency SCOP	❄️	4,21	4,20	4,19
Energy efficiency class	❄️	A+	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-20/ +15	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>	<b>5.955,-</b>	<b>6.325,-</b>	<b>7.005,-</b>

INDOOR UNIT		RAV-RM1101CTP-E*	RAV-RM1401CTP-E*	RAV-RM1601CTP-E*
Airflow	m³/h	1020/1350/1860	1200/1530/2040	1260/1650/2040
Sound pressure level (low/med/high)	dB(A) ❄️	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A) ❄️	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	37	37	37
<b>Price</b>	<b>€</b>	<b>1.595,-</b>	<b>1.775,-</b>	<b>1.875,-</b>

OUTDOOR UNIT		RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A) ❄️	49	51	51
Sound pressure level (low/med/high)	dB(A) ❄️	50	52	53
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	75	75	75
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,60	2,6	2,60
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	95	95	95
<b>Price</b>	<b>€</b>	<b>4.210,-</b>	<b>4.400,-</b>	<b>4.980,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>RBC-AXU31C-E</b>	Infrared remote control + receiver kit for installation in ceiling unit	<b>355,-</b>
<b>RBC-AMSU52-E</b>	Wired comfort remote control PLUS	<b>205,-</b>
<b>TCB-DP31CE</b>	Drain pump, discharge head 600 mm, measured from lower edge of unit	<b>440,-</b>
<b>TCB-KP13CE</b>	Elbow-kit (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	<b>70,-</b>
<b>TCB-KP14CPE</b>	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	<b>125,-</b>
<b>TCB-KP24CPE</b>	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	<b>155,-</b>
<b>TCB-PCUC2E</b>	Control board for external control, alarms and messages	<b>200,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.



INDOOR UNIT		RAV-HM401CTP-E	RAV-HM561CTP-E	RAV-HM801CTP-E	RAV-HM901CTP-E	RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
OUTDOOR UNIT		RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Cooling capacity	kW ❄️	3,60	5,00	6,90	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW ❄️	0,18/0,83/ 2,00	0,29/1,61/ 1,95	0,30/2,06/ 2,66	0,30/2,38/ 2,75	0,58/2,59/ 3,29	0,58/4,01/ 4,39	0,58/5,04/ 6,12
Energy efficiency EER	W/W ❄️	4,34	3,11	3,35	3,36	3,67	3,02	2,78
Energy efficiency SEER	❄️	7,20	6,00	7,03	7,0	7,00	6,16	6,25
Energy efficiency class	❄️	A++	A+	A++	A++	A++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW 🔥	4,00	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW 🔥	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW 🔥	0,14/0,78/ 1,70	0,29/1,36/ 2,40	0,29/1,99/ 2,57	0,29/2,15/ 2,62	0,66/2,86/ 3,49	0,66/3,48/ 4,61	0,66/4,75/ 5,78
Energy efficiency COP	W/W 🔥	5,13	3,90	3,87	4,00	3,91	3,74	3,37
Energy efficiency SCOP	🔥	5,13	4,34	4,48	4,60	4,30	4,28	4,30
Energy efficiency class	🔥	A+++	A+	A+	A++	A+	-	-
Outdoor temperature operating range (min.-max.)	°C 🔥	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A	-	-	-	-	-	-	-
<b>Set price incl. RBC-AMTU31-E</b>	€	<b>2.955,-</b>	<b>3.340,-</b>	<b>4.030,-</b>	<b>4.415,-</b>	<b>5.075,-</b>	<b>5.520,-</b>	<b>6.315,-</b>

INDOOR UNIT		RAV-HM401CTP-E	RAV-HM561CTP-E	RAV-HM801CTP-E	RAV-HM901CTP-E	RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
Airflow	m³/h	540/720/ 900	540/720/ 900	750/1000/ 1410	900 / - / 1600	1020/1350/ 1860	1200/1530/ 2040	1200/1650/ 2040
Sound pressure level (low/med/high)	dB(A) ❄️	28/35/37	28/35/37	29/36/41	30/38/42	32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A) 🔥	28/35/37	28/35/37	29/36/41	30/38/42	32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm	235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg	23	23	29	37	37	37	37
<b>Price</b>	€	<b>1.195,-</b>	<b>1.270,-</b>	<b>1.430,-</b>	<b>1.585,-</b>	<b>1.625,-</b>	<b>1.810,-</b>	<b>1.915,-</b>

OUTDOOR UNIT		RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A) ❄️	49	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A) 🔥	50	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	2	5	5	5	5	5	5
Pipe length (max.)	m	20	30	50	50	50	50	50
Height difference (max.)	m	10	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	34	40	47	47	85	85	88
<b>Price</b>	€	<b>1.610,-</b>	<b>1.920,-</b>	<b>2.450,-</b>	<b>2.680,-</b>	<b>3.300,-</b>	<b>3.560,-</b>	<b>4.250,-</b>





Digital Inverter Next – Ceiling unit – 3-phase

INDOOR UNIT			RAV-HM1101CTP-E RAV-GM1102AT8W-E	RAV-HM1401CTP-E RAV-GM1402AT8W-E	RAV-HM1601CTP-E RAV-GM1602AT8W-E
Cooling capacity	kW ❄️		9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️		3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW ❄️		0,62/2,55/3,25	0,62/3,94/4,35	0,62/4,94/6,02
Energy efficiency EER	W/W ❄️		3,72	3,07	2,83
Energy efficiency SEER	❄️		6,46	5,87	6,12
Energy efficiency class	❄️		A++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️		-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW 🔥		11,20	13,00	16,00
Heating range (min.-max.)	kW 🔥		3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW 🔥		0,70/2,83/3,45	0,70/3,43/4,57	0,70/4,68/7,09
Energy efficiency COP	W/W 🔥		3,95	3,79	3,41
Energy efficiency SCOP	🔥		4,29	4,20	4,22
Energy efficiency class	🔥		A+	-	-
Outdoor temperature operating range (min.-max.)	°C 🔥		-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		-	-	-
<b>Set price incl. RBC-AMTU31-E</b>	€		<b>5.555,-</b>	<b>6.060,-</b>	<b>6.845,-</b>

INDOOR UNIT			RAV-HM1101CTP-E	RAV-HM1401CTP-E	RAV-HM1601CTP-E
Airflow	m³/h		1020/1350/1860	1200/1530/2040	1200/1650/2040
Sound pressure level (low/med/high)	dB(A) ❄️		32/38/44	35/41/46	36/42/46
Sound pressure level (low/med/high)	dB(A) 🔥		32/38/44	35/41/46	36/42/46
Dimensions (HxWxD)	mm		235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg		37	37	37
<b>Price</b>	€		<b>1.625,-</b>	<b>1.810,-</b>	<b>1.915,-</b>

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A) ❄️		53	56	57
Sound pressure level (low/med/high)	dB(A) 🔥		56	56	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	50	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		85	85	88
<b>Price</b>	€		<b>3.780,-</b>	<b>4.100,-</b>	<b>4.780,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>RBC-AXU31C-E</b>	Infrared remote control + receiver kit for installation in ceiling unit	<b>355,-</b>
<b>TCB-DP31CE</b>	Drain pump, discharge head 600 mm, measured from lower edge of unit	<b>440,-</b>
<b>TCB-KP13CE</b>	Elbow-kit (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	<b>70,-</b>
<b>TCB-KP14CPE</b>	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	<b>125,-</b>
<b>TCB-KP24CPE</b>	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	<b>155,-</b>
<b>TCB-PCUC2E</b>	Control board for external control, alarms and messages	<b>200,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 118.

# 60x60 slim cassette

- › 360° air distribution in the Euro-grid with installation height of just 256 mm
- › Efficiency up to A++; enhanced energy savings via presence sensor option
- › Integrated drain pump (850 mm); prepared for external fresh air supply
  - › Accessories required: remote control + panel



		Digital Inverter		Super Digital Inverter
		RAV-RM301MUT-E* RAV-GM301ATP-E	RAV-RM401MUT-E* RAV-GM401ATP-E	RAV-HM561MUT-E RAV-GP561ATW-E
INDOOR UNIT				
OUTDOOR UNIT				
Cooling capacity	kW ❄️	2,50	3,60	5,00
Cooling range (min.-max.)	kW ❄️	0,90 - 3,00	0,90 - 4,00	1,20 - 5,60
Power consumption (min./nom./max.)	kW ❄️	0,25/0,59/0,32	0,18/0,90/2,00	0,19/1,56/1,97
Energy efficiency EER	W/W ❄️	4,24	4,00	3,21
Energy efficiency SEER	❄️	5,94	5,76	6,27
Energy efficiency class	❄️	A++	A+	A++
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +52
Heating capacity	kW ❄️	3,40	4,00	5,60
Heating range (min.-max.)	kW ❄️	0,80 - 4,50	0,80 - 5,00	0,90 - 7,00
Power consumption (min./nom./max.)	kW ❄️	0,17/0,76/1,40	0,14/0,95/1,70	0,16/1,60/2,36
Energy efficiency COP	W/W ❄️	4,47	4,21	3,50
Energy efficiency SCOP	❄️	4,70	4,44	4,32
Energy efficiency class	❄️	A++	A+	A+
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A	10	10	-
<b>Set price incl. RBC-AMTU31-E + RBC-UM21PG(W)-E</b>	€	<b>2.970,-</b>	<b>3.280,-</b>	<b>4.120,-</b>

INDOOR UNIT		RAV-RM301MUT-E*	RAV-RM401MUT-E*	RAV-HM561MUT-E
Airflow	m³/h	440/520/640	468/552/660	546/672/798
Sound pressure level (low/med/high)	dB(A) ❄️	30/36/38	32/36/41	35/39/44
Sound pressure level (low/med/high)	dB(A) ❄️	30/36/38	32/36/41	35/39/44
Dimensions (HxWxD)	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
Weight	kg	15	15	15
Panel dimensions (HxWxD)	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
Panel weight	kg	3	3	2,5
<b>Price</b>	€	<b>1.200,-</b>	<b>1.240,-</b>	<b>1.330,-</b>

OUTDOOR UNIT		RAV-GM301ATP-E	RAV-GM401ATP-E	RAV-GP561ATW-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	49	46
Sound pressure level (low/med/high)	dB(A) ❄️	47	50	48
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Pipe length (min.)	m	2	2	5
Pipe length (max.)	m	20	20	50
Height difference (max.)	m	10	10	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	0,6	0,9	1,35
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299
Weight	kg	29	34	45
<b>Price</b>	€	<b>1.180,-</b>	<b>1.450,-</b>	<b>2.200,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-UM21PG(W)-E</b>	Panel for 60x60 slim cassette	<b>440,-</b>
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>RBC-AXU31UM-E</b>	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	<b>180,-</b>
<b>TCB-SIR41UM-E</b>	Occupancy sensor kit for installation in 60x60 slim cassette	<b>130,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.

## 60x60 slim cassette – DI Next

- 360° air distribution in the Euro-grid with installation height of just 256 mm
- Efficiency up to A++; enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel



INDOOR UNIT OUTDOOR UNIT			RAV-HM301MUT-E RAV-GM302ATP-E	RAV-HM401MUT-E RAV-GM402ATP-E	RAV-HM561MUT-E RAV-GM562ATP-E
Cooling capacity	kW ❄️		2,50	3,60	5,00
Cooling range (min.-max.)	kW ❄️		0,90 - 3,00	0,90 - 4,00	1,50 - 5,60
Power consumption (min./nom./max.)	kW ❄️		0,18/0,59/0,82	0,18/0,90/2,00	0,30/1,64/1,86
Energy efficiency EER	W/W ❄️		4,24	4,00	3,05
Energy efficiency SEER	❄️		6,86	6,70	6,19
Energy efficiency class	❄️		A++	A++	A++
Outdoor temperature operating range (min.-max.)	°C ❄️		-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️		3,40	4,00	5,30
Heating range (min.-max.)	kW ❄️		0,80 - 4,50	0,80 - 5,00	1,50 - 6,30
Power consumption (min./nom./max.)	kW ❄️		0,17/0,76/1,40	0,14/0,95/1,70	0,30/1,47/2,40
Energy efficiency COP	W/W ❄️		4,47	4,21	3,61
Energy efficiency SCOP	❄️		4,73	4,46	4,40
Energy efficiency class	❄️		A++	A+	A+
Outdoor temperature operating range (min.-max.)	°C ❄️		-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A		-	-	-
<b>Set price incl. RBC-AMTU31-E + RBC-UM21PG(W)-E</b>	€		<b>3.175,-</b>	<b>3.510,-</b>	<b>3.840,-</b>

INDOOR UNIT		RAV-HM301MUT-E	RAV-HM401MUT-E	RAV-HM561MUT-E
Airflow	m³/h	440/520/640	468/552/660	546/672/798
Sound pressure level (low/med/high)	dB(A) ❄️	30/36/38	32/36/41	35/39/40
Sound pressure level (low/med/high)	dB(A) ❄️	30/36/38	32/36/41	35/39/40
Dimensions (HxWxD)	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
Weight	kg	15	15	15
<b>Price</b>	€	<b>1.265,-</b>	<b>1.310,-</b>	<b>1.330,-</b>

OUTDOOR UNIT		RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	49	46
Sound pressure level (low/med/high)	dB(A) ❄️	47	50	48
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Pipe length (min.)	m	2	2	5
Pipe length (max.)	m	20	20	30
Height difference (max.)	m	10	10	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	0,60	0,90	0,90
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg	29	34	40
<b>Price</b>	€	<b>1.320,-</b>	<b>1.610,-</b>	<b>1.920,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-UM21PG(W)-E</b>	Panel for 60x60 slim cassette	<b>440,-</b>
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>RBC-AXU31UM-E</b>	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	<b>180,-</b>
<b>TCB-SIR41UM-E</b>	Occupancy sensor kit for installation in 60x60 slim cassette	<b>130,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 118.

# Smart cassette

- 4-way high-efficiency design for large capacities
- Efficiency up to A++; enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel



## Super Digital Inverter – Smart cassette

INDOOR UNIT OUTDOOR UNIT		RAV-GM561UT-E* RAV-GP561ATW-E	RAV-GM801UT-E* RAV-GP801ATW-E	RAV-GM1101UT-E* RAV-GP1101AT-E	RAV-GM1401UT-E* RAV-GP1401AT-E1
Cooling capacity	kW ❄️	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW ❄️	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW ❄️	0,19/1,52/1,99	0,26/1,37/2,94	0,56/1,90/2,80	0,56/2,91/3,40
Energy efficiency EER	W/W ❄️	3,29	5,18	5,26	4,30
Energy efficiency SEER	❄️	8,07	9,40	8,80	8,30
Energy efficiency class	❄️	A++	A+++	A+++	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW ❄️	5,60	8,00	11,20	14,00
Heating range (min.-max.)	kW ❄️	0,90 - 7,40	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW ❄️	0,16/1,61/2,76	0,20/1,45/3,15	0,41/2,18/2,98	0,41/3,04/4,18
Energy efficiency COP	W/W ❄️	3,48	5,52	5,14	4,61
Energy efficiency SCOP	❄️	5,01	5,51	5,00	4,97
Energy efficiency class	❄️	A++	A+++	A+++	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-27 / +15	-27 / +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A	16	16	25	25
<b>Set price incl. RBC-AMTU31-E + RBC-U41PG(W)-E</b>	€	<b>3.985,-</b>	<b>4.920,-</b>	<b>6.580,-</b>	<b>7.240,-</b>

INDOOR UNIT		RAV-GM561UT-E*	RAV-GM801UT-E*	RAV-GM1101UT-E*	RAV-GM1401UT-E*
Airflow	m³/h	750/900/1050	810/1290/1920	1050/1650/2250	1170/1710/2250
Sound pressure level (low/med/high)	dB(A) ❄️	26/29/32	27/35/42	31/40/48	33/41/48
Sound pressure level (low/med/high)	dB(A) ❄️	26/29/32	27/35/42	31/40/48	33/41/48
Dimensions (HxWxD)	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	5	5	5	5
<b>Price</b>	€	<b>1.205,-</b>	<b>1.500,-</b>	<b>1.700,-</b>	<b>1.910,-</b>

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A) ❄️	46	46	49	50
Sound pressure level (low/med/high)	dB(A) ❄️	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
<b>Price</b>	€	<b>2.200,-</b>	<b>2.840,-</b>	<b>4.300,-</b>	<b>4.750,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-U41PG(W)-E</b>	Panel for smart cassette	<b>430,-</b>
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>RBC-AXU41U-E</b>	Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	<b>315,-</b>
<b>TCB-SIR41U-E</b>	Occupancy sensor kit for installation in smart cassette	<b>130,-</b>
<b>TCB-GFC1603UE</b>	Fresh air filter	<b>290,-</b>
<b>TCB-SP1603UE</b>	Spacer frame for lowering the panel by 70 mm	<b>230,-</b>
<b>TCB-BC1603UE</b>	Air discharge direction kit for blocking of up to three discharge sides	<b>75,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>
<b>TCB-PCUC2E</b>	Control board for external control, alarms and messages	<b>200,-</b>

# Smart cassette

- 4-way high-efficiency design for large capacities
- Efficiency up to A++; enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
- Not a stock item – lead time on request
  - Accessories required: remote control + panel



## Super Digital Inverter – Smart cassette

INDOOR UNIT OUTDOOR UNIT		RAV-HM561UT-E RAV-GP561ATW-E	RAV-HM801UT-E RAV-GP801ATW-E	RAV-HM1101UT-E RAV-GP1101AT-E	RAV-HM1401UT-E RAV-GP1401AT-E1
Cooling capacity	kW ❄️	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW ❄️	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW ❄️	0,19/1,20/2,03	0,26/1,37/2,94	0,56/1,90/2,80	0,56/2,91/3,40
Energy efficiency EER	W/W ❄️	4,17	5,18	5,26	4,30
Energy efficiency SEER	❄️	8,17	9,72	9,25	8,87
Energy efficiency class	❄️	A++	A+++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW ❄️	5,60	8,00	11,20	14,00
Heating range (min.-max.)	kW ❄️	0,90 - 8,10	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW ❄️	0,16/1,29/2,75	0,20/1,45/3,15	0,41/2,18/2,98	0,41/3,04/4,18
Energy efficiency COP	W/W ❄️	4,34	5,52	5,14	4,61
Energy efficiency SCOP	❄️	5,02	5,54	5,03	5,00
Energy efficiency class	❄️	A++	A+++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-27 / +15	-27 / +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A	-	-	-	-
<b>Set price incl. RBC-AMTU31-E + RBC-U41PG(W)-E</b>	€	<b>4.050,-</b>	<b>5.000,-</b>	<b>6.675,-</b>	<b>7.345,-</b>

INDOOR UNIT		RAV-HM561UT-E	RAV-HM801UT-E	RAV-HM1101UT-E	RAV-HM1401UT-E
Airflow	m³/h	750/900/1050	810/1290/1920	1050/1650/2250	1170/1710/2250
Sound pressure level (low/med/high)	dB(A) ❄️	26/29/32	27/35/42	31/40/48	33/41/48
Sound pressure level (low/med/high)	dB(A) ❄️	26/29/32	27/35/42	31/40/48	33/41/48
Dimensions (HxWxD)	mm	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	5	5	5	5
<b>Price</b>	€	<b>1.270,-</b>	<b>1.580,-</b>	<b>1.795,-</b>	<b>2.015,-</b>

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A) ❄️	46	46	49	50
Sound pressure level (low/med/high)	dB(A) ❄️	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
<b>Price</b>	€	<b>2.200,-</b>	<b>2.840,-</b>	<b>4.300,-</b>	<b>4.750,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-U41PG(W)-E</b>	Panel for smart cassette	<b>430,-</b>
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>RBC-AXU41U-E</b>	Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	<b>315,-</b>
<b>TCB-SIR41U-E</b>	Occupancy sensor kit for installation in smart cassette	<b>130,-</b>
<b>TCB-GFC1603UE</b>	Fresh air filter	<b>290,-</b>
<b>TCB-SP1603UE</b>	Spacer frame for lowering the panel by 70 mm	<b>230,-</b>
<b>TCB-BC1603UE</b>	Air discharge direction kit for blocking of up to three discharge sides	<b>75,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>
<b>TCB-PCUC2E</b>	Control board for external control, alarms and messages	<b>200,-</b>



# 4-way standard cassette

- › Combined with CLASSIC outdoor unit
- › 360° air distribution or direct air flow
- › Efficiency up to A++
- › Integrated drain pump (850 mm); prepared for external fresh air supply
- › Accessories required: remote control + panel



## Digital Inverter CLASSIC – 4-way standard cassette – 1-phase

INDOOR UNIT OUTDOOR UNIT		RAV-HM561UTP-E RAV-GV561ATP-E	RAV-HM801UTP-E RAV-GV801ATP-E	RAV-HM1101UTP-E RAV-GV1101ATP-E	RAV-HM1401UTP-E RAV-GV1401ATP-E	RAV-HM1601UTP-E RAV-GV1601ATP-E
Cooling capacity	kW ❄️	5,00	6,70	9,50	11,50	13,00
Cooling range (min.-max.)	kW ❄️	1,50 - 5,60	1,50 - 8,00	3,00 - 11,20	3,00 - 12,00	3,00 - 14,00
Power consumption (min./nom./max.)	kW ❄️	- /1,60/ -	0,26/2,22/ 2,60	- /3,15/ -	- /4,60/ -	- /5,40/ -
Energy efficiency EER	W/W ❄️	3,13	3,02	3,02	2,50	2,41
Energy efficiency SEER	❄️	6,20	5,81	6,00	5,10	5,90
Energy efficiency class	❄️	A++	A+	A+	A	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️	5,30	7,70	10,00	11,90	13,50
Heating range (min.-max.)	kW ❄️	1,50 - 6,30	1,50 - 9,00	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW ❄️	- /1,40/ -	0,26/2,13/ 3,03	- /3,10/ -	- /3,80/ -	- /3,90/ -
Energy efficiency COP	W/W ❄️	3,79	3,62	3,23	3,13	3,46
Energy efficiency SCOP	❄️	4,20	4,42	4,00	3,90	4,20
Energy efficiency class	❄️	A+	A+	A+	A	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A	-	-	-	-	-
<b>Set price incl. RBC-AMTU31-E + RBC-U32PGP-E</b>	€	<b>3.115,-</b>	<b>3.715,-</b>	<b>4.530,-</b>	<b>5.045,-</b>	<b>6.090,-</b>

INDOOR UNIT		RAV-HM561UTP-E	RAV-HM801UTP-E	RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h	780/870/ 1050	810/960/ 1230	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A) ❄️	28/29/32	28/31/35	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A) ❄️	28/29/32	28/31/35	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2	4,2	4,2
<b>Price</b>	€	<b>1.140,-</b>	<b>1.305,-</b>	<b>1.605,-</b>	<b>1.800,-</b>	<b>2.030,-</b>

OUTDOOR UNIT		RAV-GV561ATP-E	RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	48	53	53	57
Sound pressure level (low/med/high)	dB(A) ❄️	48	51	55	60	59
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5
Pipe length (max.)	m	20	20	30	30	30
Height difference (max.)	m	20	20	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg	36	39	45	57	64
<b>Price</b>	€	<b>1.440,-</b>	<b>1.875,-</b>	<b>2.390,-</b>	<b>2.710,-</b>	<b>3.525,-</b>

You will find all the control options from page 118.

## Digital Inverter CLASSIC – 4-way standard cassette – 3-phase

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101UTP-E RAV-GV1101AT8P-E	RAV-HM1401UTP-E RAV-GV1401AT8P-E	RAV-HM1601UTP-E RAV-GV1601AT8P-E
Cooling capacity	kW ❄️		9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️		3,00 - 11,20	3,00 - 14,00	3,00 - 16,00
Power consumption (min./nom./max.)	kW ❄️		- /3,10/ -	- /4,80/ -	0,65/4,49/5,70
Energy efficiency EER	W/W ❄️		3,06	2,52	3,12
Energy efficiency SEER	❄️		6,20	5,10	6,30
Energy efficiency class	❄️		A++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️		-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️		10,00	12,30	16,00
Heating range (min.-max.)	kW ❄️		3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW ❄️		- /3,00/ -	- /4,10/ -	0,65/4,43/5,66
Energy efficiency COP	W/W ❄️		3,33	3,00	3,61
Energy efficiency SCOP	❄️		4,10	3,90	4,35
Energy efficiency class	❄️		A+	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️		-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		-	-	-
<b>Set price incl. RBC-AMTU31-E + RBC-U32PGP-E</b>	€		<b>4.905,-</b>	<b>5.315,-</b>	<b>6.670,-</b>

INDOOR UNIT			RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h		1170/1440/2010	1230/1440/2100	1260/1500/2130
Sound pressure level (low/med/high)	dB(A) ❄️		33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A) ❄️		33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm		319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg		24	24	24
Panel dimensions (HxWxD)	mm		30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg		4,2	4,2	4,2
<b>Price</b>	€		<b>1.605,-</b>	<b>1.800,-</b>	<b>2.030,-</b>

OUTDOOR UNIT			RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E
Sound pressure level (low/med/high)	dB(A) ❄️		53	53	57
Sound pressure level (low/med/high)	dB(A) ❄️		55	60	59
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		30	30	30
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		1,70	1,90	2,20
Dimensions (HxWxD)	mm		710 x 900 x 320	710 x 900 x 320	890 x 900 x 320
Weight	kg		60	60	63
<b>Price</b>	€		<b>2.765,-</b>	<b>2.980,-</b>	<b>4.105,-</b>

You will find all the control options from page 118.

# 4-way standard cassette

- › 360° air distribution or direct air flow
- › Efficiency up to A++
- › Integrated drain pump (850 mm); prepared for external fresh air supply
  - › Accessories required: remote control + panel



## Digital Inverter – 4-way standard cassette – 1-phase

INDOOR UNIT		RAV-RM561UTP-E*	RAV-RM801UTP-E*	RAV-GM901UTP-E*	RAV-RM1101UTP-E*	RAV-RM1401UTP-E*	RAV-RM1601UTP-E*
OUTDOOR UNIT		RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM901ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1601ATP-E
Cooling capacity	kW ❄️	5,00	6,70	8,00	9,50	12,00	14,00
Cooling range (min.-max.)	kW ❄️	1,50 - 5,60	1,50 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 16,00
Power consumption (min./nom./max.)	kW ❄️	0,26/1,56/ 1,86	0,26/2,22/ 2,60	2,67	0,60/2,87/ 4,10	0,60/4,29/ 4,71	4,49
Energy efficiency EER	W/W ❄️	3,21	3,02	3,30	3,31	2,80	3,12
Energy efficiency SEER	❄️	6,34	5,81	7,00	6,15	5,71	6,30
Energy efficiency class	❄️	A++	A+	A++	A++	A+	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15/+46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️	5,30	7,70	9,00	11,20	13,00	16,00
Heating range (min.-max.)	kW ❄️	1,50 - 6,30	1,50 - 9,00	1,6 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW ❄️	0,26/1,36/ 2,08	0,26/2,13/ 3,03	2,90	0,60/2,93/ 4,30	0,60/3,40/ 4,50	4,43
Energy efficiency COP	W/W ❄️	3,90	3,62	3,72	3,82	3,76	3,61
Energy efficiency SCOP	❄️	4,60	4,42	4,60	4,28	4,29	4,35
Energy efficiency class	❄️	A+	A+	A++	A+	A+	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-15/+15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A	16	16	-	25	25	-
<b>Set price incl. RBC-AMTU31-E + RBC-U31PGP(W)-E</b>	€	<b>3.300,-</b>	<b>3.925,-</b>	<b>4.285,-</b>	<b>4.875,-</b>	<b>5.290,-</b>	<b>6.525,-</b>

INDOOR UNIT		RAV-RM561UTP-E*	RAV-RM801UTP-E*	RAV-GM901UTP-E*	RAV-RM1101UTP-E*	RAV-RM1401UTP-E*	RAV-RM1601UTP-E*
Airflow	m³/h	780/870/ 1050	810/960/ 1230	900/1600	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A) ❄️	28/29/32	28/31/35	33/36/40	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A) ❄️	28/29/32	28/31/35	33/36/40	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	24	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2	4,2	4,2	4,2
<b>Price</b>	€	<b>1.120,-</b>	<b>1.280,-</b>	<b>1.420,-</b>	<b>1.570,-</b>	<b>1.765,-</b>	<b>1.990,-</b>

OUTDOOR UNIT		RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM901ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1601ATP-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	48	51	54	55	53
Sound pressure level (low/med/high)	dB(A) ❄️	48	52	55	57	57	55
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5
Pipe length (max.)	m	30	30	50	50	50	50
Height difference (max.)	m	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,9	1,3	2,0	2,1	2,1	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	600 x 800 x 300	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
Weight	kg	40	44	47	68	68	95
<b>Price</b>	€	<b>1.645,-</b>	<b>2.110,-</b>	<b>2.330,-</b>	<b>2.770,-</b>	<b>2.990,-</b>	<b>4.000,-</b>

You will find all the control options from page 118.

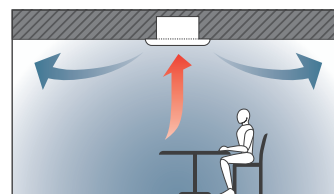
\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.



**Panel RBC-U31PGP(W)-E**  
The special shape of the fins guarantees perfect air distribution in a 360° radius.



**Panel RBC-U31PGSP(W)-E**  
The design of the fins ensures that the air flows are blown out in a straight line.



## Digital Inverter – 4-way standard cassette – 3-phase

INDOOR UNIT OUTDOOR UNIT		RAV-RM1101UTP-E* RAV-GM1101AT8P-E	RAV-RM1401UTP-E* RAV-GM1401AT8P-E	RAV-RM1601UTP-E* RAV-GM1601AT8P-E
Cooling capacity	kW ❄️	9,50	12,00	14,00
Cooling range (min.-max.)	kW ❄️	3,00 - 11,20	3,00 - 13,20	3,00 - 16,00
Power consumption (min./nom./max.)	kW ❄️	0,60/4,29/4,71	0,60/4,29/4,71	4,49
Energy efficiency EER	W/W ❄️	3,31	2,80	3,12
Energy efficiency SEER	❄️	6,15	5,71	6,30
Energy efficiency class	❄️	A++	A+	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW 🔥	11,20	13,00	16,00
Heating range (min.-max.)	kW 🔥	3,00 - 11,20	3,00 - 13,20	3,00 - 18,00
Power consumption (min./nom./max.)	kW 🔥	0,60/2,93/4,30	0,60/4,46/4,50	4,43
Energy efficiency COP	W/W 🔥	3,82	3,76	3,61
Energy efficiency SCOP	🔥	4,28	4,29	4,35
Energy efficiency class	🔥	A+	A+	-
Outdoor temperature operating range (min.-max.)	°C 🔥	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
<b>Set price incl. RBC-AMTU31-E + RBC-U31PGP(W)-E</b>	<b>€</b>	<b>5.120,-</b>	<b>5.525,-</b>	<b>7.105,-</b>

INDOOR UNIT		RAV-RM1101UTP-E*	RAV-RM1401UTP-E*	RAV-RM1601UTP-E*
Airflow	m³/h	1170/1440/2010	1230/1440/2100	1260/1500/2130
Sound pressure level (low/med/high)	dB(A) ❄️	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A) 🔥	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2
<b>Price</b>	<b>€</b>	<b>1.570,-</b>	<b>1.765,-</b>	<b>1.990,-</b>

OUTDOOR UNIT		RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	RAV-GM1601AT8P-E
Sound pressure level (low/med/high)	dB(A) ❄️	54	55	53
Sound pressure level (low/med/high)	dB(A) 🔥	57	57	55
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	50	50	50
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,1	2,1	2,40
Dimensions (HxWxD)	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
Weight	kg	69	69	94
<b>Price</b>	<b>€</b>	<b>3.015,-</b>	<b>3.225,-</b>	<b>4.580,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor unit also compatible with new RAV-HM\*\*\*\*\* indoor units.

## Super Digital Inverter – 4-way standard cassette

		1-phase				3-phase			
INDOOR UNIT		RAV-RM561UTP-E*	RAV-RM801UTP-E*	RAV-RM1101UTP-E*	RAV-RM1401UTP-E*	RAV-RM1101UTP-E*	RAV-RM1401UTP-E*	RAV-RM1601UTP-E*	
OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1	RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E	
Cooling capacity	kW ❄️	5,00	7,10	10,00	12,50	10,00	12,50	14,00	
Cooling range (min.-max.)	kW ❄️	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00	2,60 - 12,00	2,60 - 14,00	2,60 - 16,00	
Power consumption (min./nom./max.)	kW ❄️	0,19/1,22/ 1,97	0,26/1,58/ 3,15	0,53/2,13/ 3,05	0,53/3,16/ 3,55	0,66/2,32/ 3,60	0,66/3,42/ 5,50	0,66/4,34/ 5,70	
Energy efficiency EER	W/W ❄️	4,10	4,49	4,69	3,96	4,31	3,65	3,23	
Energy efficiency SEER	❄️	7,61	8,80	8,65	8,15	7,10	7,01	6,72	
Energy efficiency class	❄️	A++	A+++	A+++	-	-	-	-	
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +46	-15 / +46	-15 / +46	
Heating capacity	kW 🔥	5,60	8,00	11,20	14,00	11,20	14,00	16,00	
Heating range (min.-max.)	kW 🔥	0,90 - 8,10	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50	2,40 - 15,60	2,40 - 18,00	2,40 - 19,00	
Power consumption (min./nom./max.)	kW 🔥	0,16/1,30/ 2,76	0,20/1,77/ 3,47	0,40/2,34/ 3,08	0,40/3,21/ 4,38	0,53/2,41/ 4,30	0,53/3,41/ 5,50	0,53/4,28/ 6,51	
Energy efficiency COP	W/W 🔥	4,31	4,52	4,79	4,36	4,65	4,11	3,74	
Energy efficiency SCOP	🔥	4,96	4,52	4,73	4,72	4,31	4,30	4,36	
Energy efficiency class	🔥	A+	A+++	A++	-	-	-	-	
Outdoor temperature operating range (min.-max.)	°C 🔥	-27 / +15	-27 / +15	-27 / +15	-27 / +15	-20 / +15	-20 / +15	-20 / +15	
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	
Recommended fusing	A	16	-	25	25	3x 16	3x 16	3x 16	
<b>Set price incl. RBC-AMTU31-E + RBC-U31PGP(W)-E</b>	€	<b>3.855,-</b>	<b>4.655,-</b>	<b>6.405,-</b>	<b>7.050,-</b>	<b>6.315,-</b>	<b>6.700,-</b>	<b>7.505,-</b>	

INDOOR UNIT		RAV-RM561UTP-E*	RAV-RM801UTP-E*	RAV-RM1101UTP-E*	RAV-RM1401UTP-E*	RAV-RM1101UTP-E*	RAV-RM1401UTP-E*	RAV-RM1601UTP-E*
Airflow	m³/h	780/870/ 1050	810/960/ 1230	1170/1440/ 2010	1170/1440/ 2010	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A) ❄️	28/29/32	28/31/35	33/38/43	34/38/44	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A) 🔥	28/29/32	28/31/35	33/38/43	34/38/44	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	24	24	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2	4,2	4,2	4,2	4,2
<b>Price</b>	€	<b>1.120,-</b>	<b>1.280,-</b>	<b>1.570,-</b>	<b>1.765,-</b>	<b>1.570,-</b>	<b>1.765,-</b>	<b>1.990,-</b>

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1	RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	46	49	50	49	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A) 🔥	48	48	50	51	50	34/38/44	36/40/45
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5	5
Pipe length (max.)	m	50	50	75	75	75	75	75
Height difference (max.)	m	30	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10	2,60	2,60	2,60
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	45	74	104	104	95	95	95
<b>Price</b>	€	<b>2.200,-</b>	<b>2.840,-</b>	<b>4.300,-</b>	<b>4.750,-</b>	<b>4.210,-</b>	<b>4.400,-</b>	<b>4.980,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with new RAV-HM\*\*\*\*\* indoor units.





# 4-way standard cassette / accessories

## 4-way standard cassette

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-U31PGP(W)-E</b>	Panel for wide airflow (SMMSe)	385,-
<b>RBC-U31PGSP(W)-E</b>	Panel for straight airflow (SMMSe)	405,-
<b>RBC-U33P-E</b>	FLAT Panel - pure white, for 4-way standard cassette	385,-
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	150,-
<b>RBC-AXU31U-E</b>	Infrared remote control + receiver kit for installation in 4-way standard cassette	325,-
<b>RBC-AXU33UP-E</b>	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette	230,-
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	80,-
<b>TCB-PLFC1UPE</b>	PM 2.5 Filterset (before dustfilter), compatible to RBC-U32PGP-E and RBC-U31PGP(W)-E	20,-
<b>TCB-SIR33UP-E</b>	Occupancy sensor kit for installation in FLAT Panel	130,-
<b>TCB-EAPC1UHP-E</b>	PURE Plasmafilter kit for installation in FLAT Panel 4-way standard cassette	1.600,-
<b>TCB-ADCN510UP-E</b>	Panel adapter for RBC-U33P-E	60,-

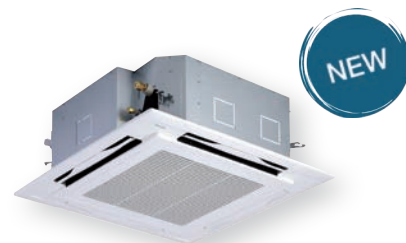
## BLACK

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-U33PB-E</b>	FLAT panel - BLACK, for 4-way standard cassette	405,-
<b>TCB-EABC1UHP-E</b>	PURE plasma filter kit SIMPLIFIED for installation in FLAT panel 4-way standard cassette	850,-



# 4-way standard cassette

- › Combined with NEXT outdoor unit
- › 360° air distribution or direct air flow
- › Efficiency up to A++
- › Integrated drain pump (850 mm); prepared for external fresh air supply
  - › Accessories required: remote control + panel



## Digital Inverter NEXT – 4-way standard cassette – 1-phase

INDOOR UNIT OUTDOOR UNIT		RAV-HM561UTP-E RAV-GM562ATP-E	RAV-HM801UTP-E RAV-GM802ATW-E	RAV-HM901UTP-E RAV-GM902ATW-E	RAV-HM1101UTP-E RAV-GM1102ATW-E	RAV-HM1401UTP-E RAV-GM1402ATW-E	RAV-HM1601UTP-E RAV-GM1602ATW-E
Cooling capacity	kW ❄️	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️	1,50 - 5,60	1,90 - 8,00	1,80 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW ❄️	0,26/1,56/ 1,86	0,29/1,90/ 2,59	0,29/2,29/ 2,88	0,52/2,57/ 3,11	0,52/3,88/ 4,23	0,52/5,05/ 6,00
Energy efficiency EER	W/W ❄️	3,21	3,52	3,50	3,70	3,12	2,77
Energy efficiency SEER	❄️	6,84	7,50	7,50	7,50	7,30	6,60
Energy efficiency class	❄️	A++	A++	A++	A++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW ❄️	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW ❄️	0,26/1,36/ 2,08	0,27/1,99/ 2,66	0,27/2,09/ 2,68	0,67/2,86/ 3,39	0,67/3,43/ 4,55	0,67/4,72/ 5,47
Energy efficiency COP	W/W ❄️	3,90	3,87	4,12	3,92	3,79	3,39
Energy efficiency SCOP	❄️	4,62	4,60	4,60	4,40	4,40	4,40
Energy efficiency class	❄️	A++	A++	A++	A++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A	-	-	-	-	-	-
<b>Set price incl. RBC-AMTU31-E + RBC-U32PGP-E</b>	€	<b>3.595,-</b>	<b>4.290,-</b>	<b>4.660,-</b>	<b>5.440,-</b>	<b>5.895,-</b>	<b>6.815,-</b>

INDOOR UNIT		RAV-HM561UTP-E	RAV-HM801UTP-E	RAV-HM901UTP-E	RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h	780/870/ 1050	810/960/ 1230	900 / - / 1600	1170/1440/ 2010	1230/1440/ 2100	1260/1500/ 2130
Sound pressure level (low/med/high)	dB(A) ❄️	28/29/32	28/31/35	33/36/40	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A) ❄️	28/29/32	28/31/35	33/36/40	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	24	24	24	24
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4,2	4,2	4,2	4,2	4,2	4,2
<b>Price</b>	€	<b>1.140,-</b>	<b>1.305,-</b>	<b>1.445,-</b>	<b>1.605,-</b>	<b>1.800,-</b>	<b>2.030,-</b>

OUTDOOR UNIT		RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A) ❄️	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5
Pipe length (max.)	m	30	50	50	50	50	50
Height difference (max.)	m	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	40	47	47	85	85	88
<b>Price</b>	€	<b>1.920,-</b>	<b>2.450,-</b>	<b>2.680,-</b>	<b>3.300,-</b>	<b>3.560,-</b>	<b>4.250,-</b>

You will find all the control options from page 118.



Digital Inverter NEXT – 4-way standard cassette – 3-phase

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101UTP-E RAV-GM1102AT8W-E	RAV-HM1401UTP-E RAV-GM1402AT8W-E	RAV-HM1601UTP-E RAV-GM1602AT8W-E
Cooling capacity	kW	❄️	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄️	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄️	0,56/2,52/3,07	0,56/3,81/4,19	0,56/4,92/5,90
Energy efficiency EER	W/W	❄️	3,76	3,17	2,84
Energy efficiency SEER		❄️	7,15	6,91	6,53
Energy efficiency class		❄️	A++	-	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	11,20	13,00	16,00
Heating range (min.-max.)	kW	🔥	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	🔥	0,71/2,82/3,35	0,71/3,39/4,51	0,71/4,65/6,71
Energy efficiency COP	W/W	🔥	3,97	3,83	3,44
Energy efficiency SCOP		🔥	4,29	4,30	4,38
Energy efficiency class		🔥	A+	-	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		-	-	-
<b>Set price incl. RBC-AMTU31-E + RBC-U32PGP-E</b>	€		<b>5.920,-</b>	<b>6.435,-</b>	<b>7.345,-</b>

INDOOR UNIT			RAV-HM1101UTP-E	RAV-HM1401UTP-E	RAV-HM1601UTP-E
Airflow	m³/h		1170/1440/2010	1230/1440/2100	1260/1500/2130
Sound pressure level (low/med/high)	dB(A)	❄️	33/38/43	34/38/44	36/40/45
Sound pressure level (low/med/high)	dB(A)	🔥	33/38/43	34/38/44	36/40/45
Dimensions (HxWxD)	mm		319 × 840 × 840	319 × 840 × 840	319 × 840 × 840
Weight	kg		24	24	24
Panel dimensions (HxWxD)	mm		30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg		4,2	4,2	4,2
<b>Price</b>	€		<b>1.605,-</b>	<b>1.800,-</b>	<b>2.030,-</b>

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	❄️	53	56	57
Sound pressure level (low/med/high)	dB(A)	🔥	56	56	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	50	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R35	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		85	85	88
<b>Price</b>	€		<b>3.780,-</b>	<b>4.100,-</b>	<b>4.780,-</b>

You will find all the control options from page 118.

# 1-way flat cassette

- › Draft-free air distribution, directed to 1 side
- › Ultra-flat 30 mm design panel with presence sensor option
- › Optional plasma filter with ionizer
- › Minimal installation height of just 150 mm
- › Integrated drain pump
  - › Accessories required: remote control + panel



## Digital Inverter NEXT – 1-way flat cassette

INDOOR UNIT		RAV-HM301U1TP-E		RAV-HM401U1TP-E	
OUTDOOR UNIT		RAV-GM302ATP-E		RAV-GM402ATP-E	
Cooling capacity	kW ❄️	2,50		3,60	
Cooling range (min.-max.)	kW ❄️	0,90 - 3,00		0,90 - 4,00	
Power consumption (min./nom./max.)	kW ❄️	0,19/0,69/0,92		0,32/1,13/1,40	
Energy efficiency EER	W/W ❄️	3,62		3,19	
Energy efficiency SEER	❄️	6,20		6,00	
Energy efficiency class	❄️	A++		A+	
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46		-15 / +46	
Heating capacity	kW 🔥	3,40		4,00	
Heating range (min.-max.)	kW 🔥	0,80 - 4,50		0,80 - 5,00	
Power consumption (min./nom./max.)	kW 🔥	0,16/1,03/1,50		0,18/1,32/2,00	
Energy efficiency COP	W/W 🔥	3,30		3,03	
Energy efficiency SCOP	🔥	4,10		4,00	
Energy efficiency class	🔥	A++		A+	
Outdoor temperature operating range (min.-max.)	°C 🔥	-15 / +15		-15 / +15	
Power supply	V/Ph+N/Hz	220-240/1/50		220-240/1/50	
Recommended fusing	A	-		-	
<b>Set price incl. RBC-AMTU31-E + RBC-UY32P-E</b>	€	<b>3.510,-</b>		<b>3.850,-</b>	

INDOOR UNIT		RAV-HM301U1TP-E		RAV-HM401U1TP-E	
Airflow	m³/h	310/ - /520		290/ - /540	
Sound pressure level (low/med/high)	dB(A) ❄️	30/35/39		30/36/40	
Sound pressure level (low/med/high)	dB(A) 🔥	30/35/39		30/36/40	
Dimensions (HxWxD)	mm	150 x 990 x 450		150 x 990 x 450	
Weight	kg	13		13	
Panel dimensions (HxWxD)	mm	30 x 1220 x 530		30 x 1220 x 530	
Panel weight	kg	4		4	
<b>Price</b>	€	<b>1.450,-</b>		<b>1.500,-</b>	

OUTDOOR UNIT		RAV-GM302ATP-E		RAV-GM402ATP-E	
Sound pressure level (low/med/high)	dB(A) ❄️	46		49	
Sound pressure level (low/med/high)	dB(A) 🔥	47		50	
Suction gas pipe diameter	mm (inch)	9,5 (3/8)		12,7 (1/2)	
Liquid pipe diameter	mm (inch)	6,4 (1/4)		6,4 (1/4)	
Pipe length (min.)	m	2		2	
Pipe length (max.)	m	20		20	
Height difference (max.)	m	10		10	
Compressor type		Twin-Rotary		Twin-Rotary	
Refrigerant		R32		R32	
Refrigerant charge	kg	0,60		0,90	
Dimensions (HxWxD)	mm	550 x 780 x 290		550 x 780 x 290	
Weight	kg	29		34	
<b>Price</b>	€	<b>1.320,-</b>		<b>1.610,-</b>	

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-UY32P-E</b>	Panel for sizes 3 to 12	<b>590,-</b>
<b>RBC-AX33UYP-E</b>	Infrared remote control + receiver kit for installation in 1-way cassette (SMMSu)	<b>85,-</b>
<b>TCB-EAPC1UYHP-E</b>	Ozone air purifier for 1-way cassette (SMMSu)	<b>320,-</b>
<b>TCB-SIR41UYP-E</b>	Occupancy sensor kit for installation in 1-way cassette (SMMSu)	<b>125,-</b>



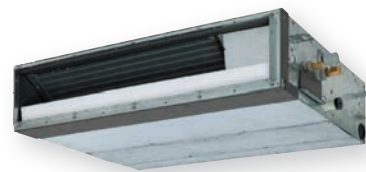


LIGHT BUSINESS / RAW



# Slim duct unit

- › Minimal installation height of just 210 mm
- › Efficiency up to A++, integrated air filter
- › Integrated drain pump (850 mm); prepared for external fresh air supply



		Digital Inverter			Super Digital Inverter
INDOOR UNIT		RAV-RM301SDT-E*	RAV-RM401SDT-E*	RAV-RM561SDT-E*	RAV-RM561SDT-E*
OUTDOOR UNIT		RAV-GM301ATP-E	RAV-GM401ATP-E	RAV-GM561ATP-E	RAV-GP561ATW-E
Cooling capacity	kW ❄️	2,50	3,60	5,00	5,00
Cooling range (min.-max.)	kW ❄️	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60	1,20 - 5,60
Power consumption (min./nom./max.)	kW ❄️	0,25/0,56/0,82	0,18/0,93/2,00	0,32/1,91/2,75	0,19/1,56/1,98
Energy efficiency EER	W/W ❄️	4,46	3,87	2,62	3,21
Energy efficiency SEER	❄️	6,29	5,86	5,14	5,77
Energy efficiency class	❄️	A++	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +52
Heating capacity	kW ❄️	3,40	4,00	5,30	5,60
Heating range (min.-max.)	kW ❄️	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30	0,90 - 7,00
Power consumption (min./nom./max.)	kW ❄️	0,17/0,86/1,40	0,14/0,97/1,70	0,32/1,50/2,40	0,16/1,58/2,66
Energy efficiency COP	W/W ❄️	3,95	4,12	3,53	3,54
Energy efficiency SCOP	❄️	4,60	4,01	4,16	4,20
Energy efficiency class	❄️	A++	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-15 / +15	-27 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A	10	10	16	16
<b>Set price incl. RBC-AMTU31-E</b>	€	<b>2.735,-</b>	<b>3.040,-</b>	<b>3.275,-</b>	<b>3.830,-</b>

INDOOR UNIT		RAV-RM301SDT-E*	RAV-RM401SDT-E*	RAV-RM561SDT-E*	RAV-RM561SDT-E*
Airflow	m³/h	480/560/660	522/600/690	582/678/780	582/678/780
External static pressure	Pa	5 - 45	5 - 45	4 - 44	4 - 44
Sound pressure level (low/med/high)	dB(A) ❄️	33/36/39	33/36/39	36/40/45	36/40/45
Sound pressure level (low/med/high)	dB(A) ❄️	33/36/39	33/36/39	36/40/45	36/40/45
Dimensions (HxWxD)	mm	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645	210 x 845 x 645
Weight	kg	22	22	22	22
<b>Price</b>	€	<b>1.405,-</b>	<b>1.440,-</b>	<b>1.480,-</b>	<b>1.480,-</b>

OUTDOOR UNIT		RAV-GM301ATP-E	RAV-GM401ATP-E	RAV-GM561ATP-E	RAV-GP561ATW-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	49	46	46
Sound pressure level (low/med/high)	dB(A) ❄️	47	50	48	48
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Pipe length (min.)	m	2	2	5	5
Pipe length (max.)	m	20	20	30	50
Height difference (max.)	m	10	10	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	0,6	0,9	0,9	1,35
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299
Weight	kg	29	34	40	45
<b>Price</b>	€	<b>1.180,-</b>	<b>1.450,-</b>	<b>1.645,-</b>	<b>2.200,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>RBC-AXU31-E</b>	Infrared remote control with external receiver kit for all indoor units	<b>460,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

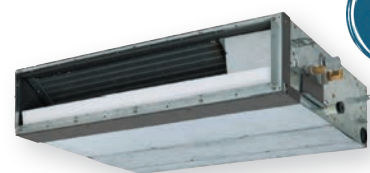
You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with new RAV-HM\*\*\*\*\* indoor units.



## Slim duct unit – DI Next

- › Minimal installation height of just 210 mm
- › Efficiency up to A++, integrated air filter
- › Integrated drain pump (850 mm); prepared for external fresh air supply



INDOOR UNIT OUTDOOR UNIT			RAV-HM301SDTY-E RAV-GM302ATP-E	RAV-HM401SDTY-E RAV-GM402ATP-E	RAV-HM561SDTY-E RAV-GM562ATP-E	RAV-HM801SDTY-E RAV-GM802ATW-E
Cooling capacity	kW	❄️	2,50	3,60	5,00	6,70
Cooling range (min.-max.)	kW	❄️	0,90 - 3,00	0,90 - 4,00	1,50 - 5,60	1,90 - 8,00
Power consumption (min./nom./max.)	kW	❄️	0,19/0,56/0,92	0,18/0,93/2,00	0,28/1,86/2,05	0,33/2,16/2,77
Energy efficiency EER	W/W	❄️	4,46	3,87	2,69	3,10
Energy efficiency SEER		❄️	6,41	6,03	5,80	5,63
Energy efficiency class		❄️	A++	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	3,40	4,00	5,30	7,70
Heating range (min.-max.)	kW	🔥	0,80 - 4,50	0,80 - 5,00	1,50 - 6,30	1,60 - 9,00
Power consumption (min./nom./max.)	kW	🔥	0,17/0,86/1,40	0,17/0,97/1,70	0,22/1,50/2,40	0,31/2,24/2,66
Energy efficiency COP	W/W	🔥	3,95	4,12	3,53	3,44
Energy efficiency SCOP		🔥	4,35	4,00	4,00	4,00
Energy efficiency class		🔥	A+	A+	A+	A+
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A		-	-	-	-
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>		<b>2.875,-</b>	<b>3.200,-</b>	<b>3.550,-</b>	<b>4.180,-</b>

INDOOR UNIT			RAV-HM301SDTY-E	RAV-HM401SDTY-E	RAV-HM561SDTY-E	RAV-HM801SDTY-E
Airflow	m³/h		420/ - /570	440/ - /600	650/ - /780	910/ - /1140
External static pressure	Pa		10/50	10/50	10/50	10/50
Sound pressure level (low/med/high)	dB(A)	❄️	26/29/32	27/30/33	29/32/34	32/34/37
Sound pressure level (low/med/high)	dB(A)	🔥	26/29/32	27/30/33	29/32/34	32/34/37
Dimensions (HxWxD)	mm		210 x 700 x 450	210 x 700 x 450	210 x 900 x 450	210 x 1100 x 450
Weight	kg		15	15	19	22
<b>Price</b>	<b>€</b>		<b>1.405,-</b>	<b>1.440,-</b>	<b>1.480,-</b>	<b>1.580,-</b>

OUTDOOR UNIT			RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E
Sound pressure level (low/med/high)	dB(A)	❄️	46	49	46	50
Sound pressure level (low/med/high)	dB(A)	🔥	47	50	48	52
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Pipe length (min.)	m		2	2	5	5
Pipe length (max.)	m		20	20	30	50
Height difference (max.)	m		10	10	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		0,60	0,90	0,90	1,90
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299
Weight	kg		29	34	40	47
<b>Price</b>	<b>€</b>		<b>1.320,-</b>	<b>1.610,-</b>	<b>1.920,-</b>	<b>2.450,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>RBC-AXU31-E</b>	Infrared remote control with external receiver kit for all indoor units	<b>460,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 118.

# Standard duct unit

- › Combined with CLASSIC outdoor unit
- › Low installation height of just 275 mm
- › External static pressure up to 120 Pa, integrated air filter
- › Integrated drain pump (850 mm); prepared for external fresh air supply



## Digital Inverter CLASSIC – Standard duct unit – 1-phase

INDOOR UNIT OUTDOOR UNIT			RAV-HM801BTP-E RAV-GV801ATP-E	RAV-HM1101BTP-E RAV-GV1101ATP-E	RAV-HM1401BTP-E RAV-GV1401ATP-E	RAV-HM1601BTP-E RAV-GV1601ATP-E
Cooling capacity	kW	❄️	6,70	9,50	11,50	13,00
Cooling range (min.-max.)	kW	❄️	1,50 - 8,00	3,00 - 11,20	3,00 - 12,00	3,00 - 14,00
Power consumption (min./nom./max.)	kW	❄️	- /2,30/ -	- /3,17/ -	- /4,70/ -	- /5,40/ -
Energy efficiency EER	W/W	❄️	2,91	3,00	2,45	2,41
Energy efficiency SEER		❄️	5,10	5,10	5,10	4,90
Energy efficiency class		❄️	A	A	-	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	7,00	10,00	11,90	13,50
Heating range (min.-max.)	kW	🔥	1,50 - 9,00	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	🔥	- /2,33/ -	- /3,00/ -	- /3,90/ -	- /4,00/ -
Energy efficiency COP	W/W	🔥	3,00	3,30	3,05	3,38
Energy efficiency SCOP		🔥	4,00	3,80	3,80	4,15
Energy efficiency class		🔥	A+	A	-	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A		-	-	-	-
<b>Set price incl. RBC-AMTU31-E</b>	€		<b>3.485,-</b>	<b>4.340,-</b>	<b>4.720,-</b>	<b>5.690,-</b>

INDOOR UNIT			RAV-HM801BTP-E	RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h		750/930/1200	1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa		30/120	50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄️	26/30/34	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	🔥	26/30/34	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		31	41	41	41
<b>Price</b>	€		<b>1.460,-</b>	<b>1.800,-</b>	<b>1.860,-</b>	<b>2.015,-</b>

OUTDOOR UNIT			RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E
Sound pressure level (low/med/high)	dB(A)	❄️	48	53	53	57
Sound pressure level (low/med/high)	dB(A)	🔥	51	55	60	59
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5
Pipe length (max.)	m		20	30	30	30
Height difference (max.)	m		20	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm		550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg		39	45	57	64
<b>Price</b>	€		<b>1.875,-</b>	<b>2.390,-</b>	<b>2.710,-</b>	<b>3.525,-</b>

## Digital Inverter CLASSIC – Standard duct unit – 3-phase

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101BTP-E RAV-GV1101AT8P-E	RAV-HM1401BTP-E RAV-GV1401AT8P-E	RAV-HM1601BTP-E RAV-GV1601AT8P-E
Cooling capacity	kW	❄️	9,50	12,10	13,00
Cooling range (min.-max.)	kW	❄️	3,00 - 11,20	3,00 - 14,00	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄️	- /3,06/ -	- /4,90/ -	- /5,40/ -
Energy efficiency EER	W/W	❄️	3,06	2,47	2,41
Energy efficiency SEER		❄️	5,30	5,10	4,90
Energy efficiency class		❄️	A	-	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	10,00	12,30	13,50
Heating range (min.-max.)	kW	🔥	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	🔥	- /2,94/ -	- /4,10/ -	- /4,00/ -
Energy efficiency COP	W/W	🔥	3,40	3,00	3,38
Energy efficiency SCOP		🔥	3,80	3,80	4,15
Energy efficiency class		🔥	A	-	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		-	-	-
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>		<b>4.715,-</b>	<b>4.990,-</b>	<b>6.270,-</b>

INDOOR UNIT			RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h		1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa		50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄️	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	🔥	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		41	41	41
<b>Price</b>	<b>€</b>		<b>1.800,-</b>	<b>1.860,-</b>	<b>2.015,-</b>

OUTDOOR UNIT			RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E
Sound pressure level (low/med/high)	dB(A)	❄️	53	53	57
Sound pressure level (low/med/high)	dB(A)	🔥	55	60	59
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		30	30	30
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		1,70	1,90	2,20
Dimensions (HxWxD)	mm		710 x 900 x 320	710 x 900 x 320	890 x 900 x 320
Weight	kg		60	60	63
<b>Price</b>	<b>€</b>		<b>2.765,-</b>	<b>2.980,-</b>	<b>4.105,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>TCB-AX32E2</b>	Infrared remote control with external receiver kit for all indoor units	<b>350,-</b>
<b>TCB-SF56C6BPE</b>	Connection flange (2 × Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	<b>165,-</b>
<b>TCB-SF80C6BPE</b>	Connection flange (3 × Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	<b>195,-</b>
<b>TCB-SF160C6BPE</b>	Connection flange (4 × Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	<b>245,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 118.

# Standard duct unit

- › Low installation height of just 275 mm
- › External static pressure up to 120 Pa, integrated air filter
- › Integrated drain pump (850 mm); prepared for external fresh air supply



## Digital Inverter – Standard duct unit – 1-phase

INDOOR UNIT			RAV-RM561BTP-E*	RAV-RM801BTP-E*	RAV-GM901BTP-E*	RAV-RM1101BTP-E*	RAV-RM1401BTP-E*
OUTDOOR UNIT			RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM901ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E
Cooling capacity	kW	❄️	5,00	6,70	8,00	9,50	12,10
Cooling range (min.-max.)	kW	❄️	1,50 - 5,60	1,50 - 7,40	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20
Power consumption (min./nom./max.)	kW	❄️	0,31/1,83/ 2,05	0,31/2,38/ 2,76	2,58	0,60/2,99/ 4,50	0,60/4,42/ 4,71
Energy efficiency EER	W/W	❄️	2,73	2,82	3,00	3,18	2,74
Energy efficiency SEER		❄️	5,28	5,20	6,10	5,28	5,36
Energy efficiency class		❄️	A	A	A++	A	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15/+46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	5,30	7,70	9,00	11,20	13,00
Heating range (min.-max.)	kW	🔥	1,50 - 6,30	1,50 - 9,00	1,6 - 9,90	3,00 - 13,00	3,00 - 16,00
Power consumption (min./nom./max.)	kW	🔥	0,31/1,62/ 2,47	0,31/2,32/ 3,18	2,65	0,60/2,99/ 4,00	0,60/3,60/ 4,55
Energy efficiency COP	W/W	🔥	3,27	3,32	3,40	3,75	3,61
Energy efficiency SCOP		🔥	4,08	4,13	4,60	4,19	4,19
Energy efficiency class		🔥	A+	A+	A++	A+	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15 / +15	-15/+15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A		16	16	-	25	25
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>		<b>3.055,-</b>	<b>3.690,-</b>	<b>4.130,-</b>	<b>4.685,-</b>	<b>4.960,-</b>

INDOOR UNIT			RAV-RM561BTP-E*	RAV-RM801BTP-E*	RAV-GM901BTP-E*	RAV-RM1101BTP-E*	RAV-RM1401BTP-E*
Airflow	m³/h		480/630/ 800	720/930/ 1200	1000/1700	1260/1650/ 2100	1260/1650/ 2100
External static pressure	Pa		30/120	30/120	30 - 120	30/120	30/120
Sound pressure level (low/med/high)	dB(A)	❄️	25/29/33	26/30/34	30/33/37	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	🔥	25/29/33	26/30/34	30/33/37	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		23	30	40	40	40
<b>Price</b>	<b>€</b>		<b>1.260,-</b>	<b>1.430,-</b>	<b>1.650,-</b>	<b>1.765,-</b>	<b>1.820,-</b>

OUTDOOR UNIT			RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM901ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E
Sound pressure level (low/med/high)	dB(A)	❄️	46	48	51	54	55
Sound pressure level (low/med/high)	dB(A)	🔥	48	52	55	57	57
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5	5
Pipe length (max.)	m		30	30	50	50	50
Height difference (max.)	m		30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32
Refrigerant charge	kg		0,9	1,3	2,0	2,1	2,1
Dimensions (HxWxD)	mm		550 x 780 x 290	550 x 780 x 290	600 x 800 x 300	890 x 900 x 320	890 x 900 x 320
Weight	kg		40	44	47	68	68
<b>Price</b>	<b>€</b>		<b>1.645,-</b>	<b>2.110,-</b>	<b>2.330,-</b>	<b>2.770,-</b>	<b>2.990,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with RAV-HM\*\*\*\*\* indoor units.



## Digital Inverter – Standard duct unit – 3-phase

INDOOR UNIT		RAV-RM1101BTP-E*		RAV-RM1401BTP-E*	
OUTDOOR UNIT		RAV-GM1101AT8P-E		RAV-GM1401AT8P-E	
Cooling capacity	kW ❄️	9,50		12,10	
Cooling range (min.-max.)	kW ❄️	3,00 - 11,20		3,00 - 13,20	
Power consumption (min./nom./max.)	kW ❄️	0,60/2,99/4,50		0,60/4,42/4,71	
Energy efficiency EER	W/W ❄️	3,18		2,74	
Energy efficiency SEER	❄️	5,28		5,36	
Energy efficiency class	❄️	A		-	
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46		-15 / +46	
Heating capacity	kW 🔥	11,20		13,00	
Heating range (min.-max.)	kW 🔥	3,00 - 13,00		3,00 - 16,00	
Power consumption (min./nom./max.)	kW 🔥	0,60/2,99/4,00		0,60/3,60/4,55	
Energy efficiency COP	W/W 🔥	3,75		3,61	
Energy efficiency SCOP	🔥	4,19		4,19	
Energy efficiency class	🔥	A+		-	
Outdoor temperature operating range (min.-max.)	°C 🔥	-15 / +15		-15 / +15	
Power supply	V/Ph+N/Hz	380-415/3+N/50		380-415/3+N/50	
Recommended fusing	A	3x 16		3x 16	
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>	<b>4.930,-</b>		<b>5.195,-</b>	

INDOOR UNIT		RAV-RM1101BTP-E*		RAV-RM1401BTP-E*	
Airflow	m³/h	1260/1650/2100		1260/1650/2100	
External static pressure	Pa	30/120		30/120	
Sound pressure level (low/med/high)	dB(A) ❄️	33/36/40		33/36/40	
Sound pressure level (low/med/high)	dB(A) 🔥	33/36/40		33/36/40	
Dimensions (HxWxD)	mm	275 x 1400 x 750		275 x 1400 x 750	
Weight	kg	40		40	
<b>Price</b>	<b>€</b>	<b>1.765,-</b>		<b>1.820,-</b>	

OUTDOOR UNIT		RAV-GM1101AT8P-E		RAV-GM1401AT8P-E	
Sound pressure level (low/med/high)	dB(A) ❄️	54		55	
Sound pressure level (low/med/high)	dB(A) 🔥	57		57	
Suction gas pipe diameter	mm (inch)	15,9 (5/8)		15,9 (5/8)	
Liquid pipe diameter	mm (inch)	9,5 (3/8)		9,5 (3/8)	
Pipe length (min.)	m	5		5	
Pipe length (max.)	m	50		50	
Height difference (max.)	m	30		30	
Compressor type		Twin-Rotary		Twin-Rotary	
Refrigerant		R32		R32	
Refrigerant charge	kg	2,1		2,1	
Dimensions (HxWxD)	mm	890 x 900 x 320		890 x 900 x 320	
Weight	kg	69		69	
<b>Price</b>	<b>€</b>	<b>3.015,-</b>		<b>3.225,-</b>	

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with new RAV-HM\*\*\*\*\* indoor units.

## Super Digital Inverter – Standard duct unit – 1-phase

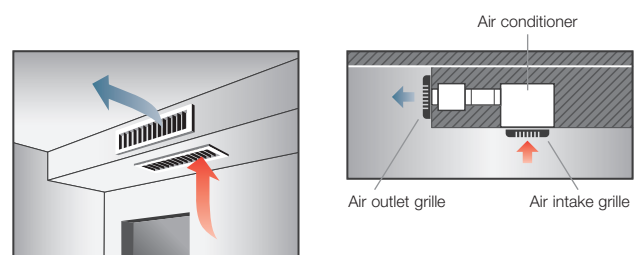
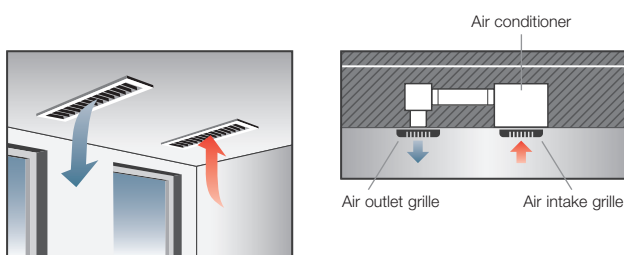
INDOOR UNIT OUTDOOR UNIT			RAV-RM561BTP-E* RAV-GP561ATW-E	RAV-RM801BTP-E* RAV-GP801ATW-E	RAV-RM1101BTP-E* RAV-GP1101AT-E	RAV-RM1401BTP-E* RAV-GP1401AT-E1
Cooling capacity	kW	❄️	5,00	7,10	10,00	12,50
Cooling range (min.-max.)	kW	❄️	1,20 - 5,60	-	3,10 - 12,00	3,10 - 14,00
Power consumption (min./nom./max.)	kW	❄️	0,19/1,52/1,99	0,26/1,63/3,20	0,65/2,40/3,63	0,65/3,57/3,97
Energy efficiency EER	W/W	❄️	3,29	4,36	4,17	3,50
Energy efficiency SEER		❄️	5,60	7,50	6,60	6,06
Energy efficiency class		❄️	A+	A++	A++	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Heating capacity	kW	🔥	5,60	8,00	11,20	14,00
Heating range (min.-max.)	kW	🔥	0,9 - 7,40	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50
Power consumption (min./nom./max.)	kW	🔥	0,16/1,61/2,76	0,20/1,85/3,55	0,47/2,73/3,38	0,47/3,63/4,43
Energy efficiency COP	W/W	🔥	3,48	4,32	4,10	3,86
Energy efficiency SCOP		🔥	4,24	4,81	4,24	4,24
Energy efficiency class		🔥	A+	A++	A+	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-27 / +15	-27 / +15	-27 / +15	-27 / +15
Power supply	V/Ph+N/Hz		220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A		16	16	25	25
<b>Set price incl. RBC-AMTU31-E</b>	€		<b>3.610,-</b>	<b>4.420,-</b>	<b>6.215,-</b>	<b>6.720,-</b>

INDOOR UNIT			RAV-RM561BTP-E*	RAV-RM801BTP-E*	RAV-RM1101BTP-E*	RAV-RM1401BTP-E*
Airflow	m³/h		540/660/800	870/990/1200	1500/1740/2100	1500/1740/2100
External static pressure	Pa		30/120	30/120	50/120	30/120
Sound pressure level (low/med/high)	dB(A)	❄️	25/29/33	26/30/34	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	🔥	25/29/33	26/30/34	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		23	30	40	40
<b>Price</b>	€		<b>1.260,-</b>	<b>1.430,-</b>	<b>1.765,-</b>	<b>1.820,-</b>

OUTDOOR UNIT			RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Sound pressure level (low/med/high)	dB(A)	❄️	46	46	49	50
Sound pressure level (low/med/high)	dB(A)	🔥	48	48	50	51
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5
Pipe length (max.)	m		50	50	75	75
Height difference (max.)	m		30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32
Refrigerant charge	kg		1,35	1,30	3,10	3,10
Dimensions (HxWxD)	mm		630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg		45	74	104	104
<b>Price</b>	€		<b>2.200,-</b>	<b>2.840,-</b>	<b>4.300,-</b>	<b>4.750,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with new RAV-HM\*\*\*\*\* indoor units.



In an existing suspended ceiling, the room air is drawn in at the bottom of the air conditioner, where it is conditioned and then blown back into the room via air ducts and a diffuser.

If there is no suspended ceiling available, almost invisible air conditioning can be achieved with a lowered ceiling on just one side of the room.

## Super Digital Inverter – Standard duct unit – 3-phase

INDOOR UNIT OUTDOOR UNIT			RAV-RM1101BTP-E* RAV-GP1101AT8-E	RAV-RM1401BTP-E* RAV-GP1401AT8-E	RAV-HM1601BTP-E RAV-GP1601AT8-E
Cooling capacity	kW	❄️	10,00	12,50	14,00
Cooling range (min.-max.)	kW	❄️	2,60 - 12,00	2,60 - 14,00	2,60 - 16,00
Power consumption (min./nom./max.)	kW	❄️	0,66/2,58/4,01	0,66/3,81/4,89	0,66/4,49/6,50
Energy efficiency EER	W/W	❄️	3,87	3,28	3,12
Energy efficiency SEER		❄️	5,70	5,48	5,81
Energy efficiency class		❄️	A+	-	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	11,20	14,00	16,00
Heating range (min.-max.)	kW	🔥	2,40 - 15,60	2,40 - 18,00	2,40 - 19,00
Power consumption (min./nom./max.)	kW	🔥	0,53/2,76/4,42	0,53/3,66/5,71	0,53/4,57/6,96
Energy efficiency COP	W/W	🔥	4,06	3,83	3,50
Energy efficiency SCOP		🔥	4,14	3,94	3,96
Energy efficiency class		🔥	A+	-	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-20/ +15	-20/ +15	-20/ +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		3x 16	3x 16	-
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>		<b>6.125,-</b>	<b>6.370,-</b>	<b>7.145,-</b>

INDOOR UNIT			RAV-RM1101BTP-E*	RAV-RM1401BTP-E*	RAV-HM1601BTP-E
Airflow	m³/h		1260/1740/2100	1260/1740/2100	1260/1650/2100
External static pressure	Pa		30/120	30/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄️	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	🔥	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		40	40	41
<b>Price</b>	<b>€</b>		<b>1.765,-</b>	<b>1.820,-</b>	<b>2.015,-</b>

OUTDOOR UNIT			RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A)	❄️	49	51	51
Sound pressure level (low/med/high)	dB(A)	🔥	50	51	53
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		75	75	75
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,60	2,60	2,60
Dimensions (HxWxD)	mm		1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg		95	95	95
<b>Price</b>	<b>€</b>		<b>4.210,-</b>	<b>4.400,-</b>	<b>4.980,-</b>

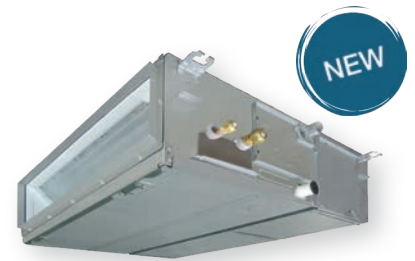
ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>TCB-AX32E2</b>	Infrared remote control with external receiver kit for all indoor units	<b>350,-</b>
<b>TCB-SF56C6BPE</b>	Connection flange (2 × Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	<b>165,-</b>
<b>TCB-SF80C6BPE</b>	Connection flange (3 × Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	<b>195,-</b>
<b>TCB-SF160C6BPE</b>	Connection flange (4 × Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	<b>245,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with new RAV-HM\*\*\*\*\* indoor units.

# Standard duct unit

- Low installation height of just 275 mm
- External static pressure up to 120 Pa, integrated air filter
- Integrated drain pump (850 mm); prepared for external fresh air supply



## Digital Inverter NEXT – Standard duct unit – 1-phase

INDOOR UNIT OUTDOOR UNIT		RAV-HM561BTP-E RAV-GM562ATP-E	RAV-HM801BTP-E RAV-GM802ATW-E	RAV-HM901BTP-E RAV-GM902ATW-E	RAV-HM1101BTP-E RAV-GM1102ATW-E	RAV-HM1401BTP-E RAV-GM1402ATW-E	RAV-HM1601BTP-E RAV-GM1602ATW-E
Cooling capacity	kW ❄️	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW ❄️	0,31/1,83/ 2,05	0,33/2,02/ 2,77	0,33/2,39/ 2,97	0,64/2,60/ 3,21	0,64/4,01/ 4,52	0,64/5,26/ 6,00
Energy efficiency EER	W/W ❄️	2,73	3,32	3,35	3,65	3,02	2,66
Energy efficiency SEER	❄️	5,80	6,37	6,75	6,40	6,15	5,90
Energy efficiency class	❄️	A+	A++	A++	A++	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW ❄️	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW ❄️	1,50 - 6,30	1,360 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW ❄️	0,31/1,62/ 2,47	0,31/2,04/ 2,66	0,31/2,15/ 2,67	0,74/2,91/ 3,42	0,74/3,55/ 4,62	0,74/4,73/ 5,64
Energy efficiency COP	W/W ❄️	3,27	3,77	4,00	3,85	3,66	3,38
Energy efficiency SCOP	❄️	4,11	4,30	4,30	4,00	3,92	4,05
Energy efficiency class	❄️	A+	A+	A+	A+	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A	-	-	-	-	-	-
<b>Set price incl. RBC-AMTU31-E</b>	€	<b>3.355,-</b>	<b>4.060,-</b>	<b>4.515,-</b>	<b>5.250,-</b>	<b>5.570,-</b>	<b>6.415,-</b>

INDOOR UNIT		RAV-HM561BTP-E	RAV-HM801BTP-E	RAV-HM901BTP-E	RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h	480/630/ 800	750/930/ 1200	1000/ - / 1700	1260/1650/ 2100	1260/1650/ 2100	1260/1650/ 2100
External static pressure	Pa	30/120	30/120	30/120	50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A) ❄️	25/29/33	26/30/34	30/33/37	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A) ❄️	25/29/33	26/30/34	30/33/37	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm	275 x 700 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg	23	31	41	41	41	41
<b>Price</b>	€	<b>1.285,-</b>	<b>1.460,-</b>	<b>1.685,-</b>	<b>1.800,-</b>	<b>1.860,-</b>	<b>2.015,-</b>

OUTDOOR UNIT		RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A) ❄️	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5
Pipe length (max.)	m	30	50	50	50	50	50
Height difference (max.)	m	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	40	47	47	85	85	88
<b>Price</b>	€	<b>1.920,-</b>	<b>2.450,-</b>	<b>2.680,-</b>	<b>3.300,-</b>	<b>3.560,-</b>	<b>4.250,-</b>



Digital Inverter NEXT – Standard duct unit – 3-phase

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101BTP-E RAV-GM1102AT8W-E	RAV-HM1401BTP-E RAV-GV1401AT8P-E	RAV-HM1601BTP-E RAV-GM1602AT8W-E
Cooling capacity	kW	❄️	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄️	3,00 - 11,20	3,00 - 14,00	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄️	0,68/2,56/3,17	- /4,90/ -	0,68/5,14/5,90
Energy efficiency EER	W/W	❄️	3,71	2,47	2,72
Energy efficiency SEER		❄️	6,00	5,10	5,80
Energy efficiency class		❄️	A+	-	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	11,20	12,30	16,00
Heating range (min.-max.)	kW	🔥	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	🔥	0,78/2,87/3,38	- /4,10/ -	0,78/4,66/6,92
Energy efficiency COP	W/W	🔥	3,90	3,00	3,43
Energy efficiency SCOP		🔥	3,92	3,80	3,96
Energy efficiency class		🔥	A	-	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		-	-	-
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>		<b>5.730,-</b>	<b>4.990,-</b>	<b>6.945,-</b>

INDOOR UNIT			RAV-HM1101BTP-E	RAV-HM1401BTP-E	RAV-HM1601BTP-E
Airflow	m³/h		1260/1650/2100	1260/1650/2100	1260/1650/2100
External static pressure	Pa		50/120	50/120	50/120
Sound pressure level (low/med/high)	dB(A)	❄️	33/36/40	33/36/40	33/36/40
Sound pressure level (low/med/high)	dB(A)	🔥	33/36/40	33/36/40	33/36/40
Dimensions (HxWxD)	mm		275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		41	41	41
<b>Price</b>	<b>€</b>		<b>1.800,-</b>	<b>1.860,-</b>	<b>2.015,-</b>

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GV1401AT8P-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	❄️	53	53	57
Sound pressure level (low/med/high)	dB(A)	🔥	56	60	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	30	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,40	1,90	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	710 x 900 x 320	1050 x 1010 x 370
Weight	kg		85	60	88
<b>Price</b>	<b>€</b>		<b>3.780,-</b>	<b>2.980,-</b>	<b>4.780,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>TCB-AX32E2</b>	Infrared remote control with external receiver kit for all indoor units	<b>350,-</b>
<b>TCB-SF56C6BPE</b>	Connection flange (2 × Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	<b>165,-</b>
<b>TCB-SF80C6BPE</b>	Connection flange (3 × Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	<b>195,-</b>
<b>TCB-SF160C6BPE</b>	Connection flange (4 × Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	<b>245,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 118.



# High-pressure duct unit Digital Inverter BIG



- For combining with Digital Inverter BIG units
- External static pressure adjustable up to 250 Pa

INDOOR UNIT		RAV-RM2241DTP-E2		RAV-RM2801DTP-E2	
OUTDOOR UNIT		RAV-GM2241AT8-E1		RAV-GM2801AT8-E1	
Cooling capacity	kW ❄️	19,00	22,50		
Cooling range (min.-max.)	kW ❄️	4,60 - 22,40	4,60 - 27,00		
Power consumption (min./nom./max.)	kW ❄️	1,27/5,86/9,05	1,27/7,98/11,87		
Energy efficiency EER	W/W ❄️	3,24	2,82		
Energy efficiency SEER	❄️	5,82	5,49		
Energy efficiency class	❄️	-	-		
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46		
Heating capacity	kW ❄️	22,40	27,00		
Heating range (min.-max.)	kW ❄️	4,60 - 25,00	4,60 - 31,50		
Power consumption (min./nom./max.)	kW ❄️	1,27/5,71/10,15	1,27/7,52/13,83		
Energy efficiency COP	W/W ❄️	3,92	3,59		
Energy efficiency SCOP	❄️	3,78	3,69		
Energy efficiency class	❄️	-	-		
Outdoor temperature operating range (min.-max.)	°C ❄️	-20/ +15	-20/ +15		
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50		
Recommended fusing	A	3x 20	3x 25		
<b>Set price incl. RBC-AMTU31-E</b>	<b>€</b>	<b>12.700,-</b>	<b>13.700,-</b>		

INDOOR UNIT		RAV-RM2241DTP-E2		RAV-RM2801DTP-E2	
Airflow	m³/h	3800	4800		
External static pressure	Pa	50/150/250	50/150/250		
Sound pressure level (low/med/high)	dB(A) ❄️	36/40/44	38/42/46		
Sound pressure level (low/med/high)	dB(A) ❄️	36/40/44	38/42/46		
Dimensions (HxWxD)	mm	448 x 1400 x 900	448 x 1400 x 900		
Weight	kg	97	97		
<b>Price</b>	<b>€</b>	<b>5.160,-</b>	<b>5.430,-</b>		

OUTDOOR UNIT		RAV-GM2241AT8-E1		RAV-GM2801AT8-E1	
Sound pressure level (low/med/high)	dB(A) ❄️	58	61		
Sound pressure level (low/med/high)	dB(A) ❄️	60	63		
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)		
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)		
Pipe length (min.)	m	5	5		
Pipe length (max.)	m	60	60		
Height difference (max.)	m	30	30		
Compressor type		Twin-Rotary	Twin-Rotary		
Refrigerant		R32	R32		
Refrigerant charge	kg	5,0	5,0		
Dimensions (HxWxD)	mm	1550 x 1010 x 370	1550 x 1010 x 370		
Weight	kg	142	142		
<b>Price</b>	<b>€</b>	<b>7.390,-</b>	<b>8.120,-</b>		

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMTU31-E</b>	Standard Wired Remote Control	<b>150,-</b>
<b>TCB-AX32E2</b>	Infrared remote control with external receiver kit for all indoor units	<b>350,-</b>
<b>TCB-DP40DPE</b>	Drain pump, RAV: 22 + 28 / VRF: 72 + 96	<b>470,-</b>
<b>TCB-LK2801DP-E</b>	Long Life Airfilter kit, for model sizes RAV: 22 + 28 / VRF: 72 + 96	<b>165,-</b>
<b>TCB-PCUC2E</b>	Control board for external control, alarms and messages	<b>200,-</b>

You will find all the control options from page 118.

# Floor standing unit

- › Perfect air circulation
- › Plug & Play with integrated comfort remote control
- › Integrated leak detection system



## Digital Inverter – Floor standing unit – 1-phase

INDOOR UNIT OUTDOOR UNIT		RAV-RM561FT-ES* RAV-GM561ATP-E	RAV-RM801FT-ES* RAV-GM801ATP-E	RAV-RM1101FT-ES* RAV-GM1101ATP-E	RAV-RM1401FT-ES* RAV-GM1401ATP-E	RAV-RM1601FT-ES* RAV-GM1601ATP-E
Cooling capacity	kW ❄️	5,00	6,70	9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️	1,50 - 5,60	1,50 - 7,40	3,00 - 11,20	3,00 - 13,20	3,00 - 16,00
Power consumption (min./nom./max.)	kW ❄️	-/1,79/-	-/3,18/-	-/3,06/-	-/4,71/-	- /4,39/ -
Energy efficiency EER	W/W ❄️	2,79	2,11	3,10	2,57	3,12
Energy efficiency SEER	❄️	5,15	4,89	5,16	4,86	5,90
Energy efficiency class	❄️	A	B	A	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW 🔥	5,30	7,70	11,20	13,00	16,00
Heating range (min.-max.)	kW 🔥	1,50 - 6,30	1,50 - 9,00	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW 🔥	-/1,72/-	-/3,20/-	-/3,19/-	-/4,01/-	- /4,83/ -
Energy efficiency COP	W/W 🔥	3,08	2,41	3,51	3,24	3,47
Energy efficiency SCOP	❄️	4,00	3,81	3,92	3,90	4,35
Energy efficiency class	❄️	A+	A	A	-	-
Outdoor temperature operating range (min.-max.)	°C 🔥	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Recommended fusing	A	16	16	25	25	-
<b>Set price incl. RBC-AMSU51-ES</b>	€	<b>4.440,-</b>	<b>5.040,-</b>	<b>5.980,-</b>	<b>6.260,-</b>	<b>7.325,-</b>

INDOOR UNIT		RAV-RM561FT-ES*	RAV-RM801FT-ES*	RAV-RM1101FT-ES*	RAV-RM1401FT-ES*	RAV-RM1601FT-ES*
Airflow	m³/h	600/820	640/930	1190/1660	1350/1760	1350/1760
Sound pressure level (low/med/high)	dB(A) ❄️	38/42/46	41/45/50	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A) 🔥	38/42/46	41/45/50	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg	44	45	59	59	59
<b>Price</b>	€	<b>2.590,-</b>	<b>2.725,-</b>	<b>3.005,-</b>	<b>3.065,-</b>	<b>3.120,-</b>

OUTDOOR UNIT		RAV-GM561ATP-E	RAV-GM801ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1601ATP-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	48	54	55	53
Sound pressure level (low/med/high)	dB(A) 🔥	48	52	57	57	55
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5
Pipe length (max.)	m	30	30	50	50	50
Height difference (max.)	m	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,9	1,3	2,1	2,1	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
Weight	kg	40	44	68	68	95
<b>Price</b>	€	<b>1.645,-</b>	<b>2.110,-</b>	<b>2.770,-</b>	<b>2.990,-</b>	<b>4.000,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with new RAV-HM\*\*\*\*\* indoor units.  
RAV-HM\*\*\*\*\* indoor units without integrated comfort remote control.

## Digital Inverter – Floor standing unit – 3-phase

INDOOR UNIT OUTDOOR UNIT		RAV-RM1101FT-ES* RAV-GM1101AT8P-E	RAV-RM1401FT-ES* RAV-GM1401AT8P-E	RAV-RM1601FT-ES* RAV-GM1601AT8P-E
Cooling capacity	kW ❄️	9,50	12,10	14,00
Cooling range (min.-max.)	kW ❄️	3,00 - 11,20	3,00 - 13,20	3,00 - 16,00
Power consumption (min./nom./max.)	kW ❄️	- /3,06/ -	- /4,71/ -	- /4,39/ -
Energy efficiency EER	W/W ❄️	3,10	2,57	3,12
Energy efficiency SEER	❄️	5,16	4,86	5,90
Energy efficiency class	❄️	A	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW 🔥	11,20	13,00	16,00
Heating range (min.-max.)	kW 🔥	3,00 - 13,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW 🔥	- /3,19/ -	- /4,01/ -	- /4,83/ -
Energy efficiency COP	W/W 🔥	3,51	3,24	3,47
Energy efficiency SCOP	🔥	3,92	3,90	4,35
Energy efficiency class	🔥	A	-	-
Outdoor temperature operating range (min.-max.)	°C 🔥	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz	380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A	3x 16	3x 16	3x 16
<b>Set price incl. RBC-AMSU51-ES</b>	<b>€</b>	<b>6.225,-</b>	<b>6.495,-</b>	<b>7.905,-</b>

INDOOR UNIT		RAV-RM1101FT-ES*	RAV-RM1401FT-ES*	RAV-RM1601FT-ES*
Airflow	m³/h	1190/1660	1350/1760	1350/1760
Sound pressure level (low/med/high)	dB(A) ❄️	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A) 🔥	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg	59	59	59
<b>Price</b>	<b>€</b>	<b>3.005,-</b>	<b>3.065,-</b>	<b>3.120,-</b>

OUTDOOR UNIT		RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	RAV-GM1601AT8P-E
Sound pressure level (low/med/high)	dB(A) ❄️	54	55	53
Sound pressure level (low/med/high)	dB(A) 🔥	57	57	55
Suction gas pipe diameter	mm (inch)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	50	50	50
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,1	2,1	2,40
Dimensions (HxWxD)	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
Weight	kg	68	69	94
<b>Price</b>	<b>€</b>	<b>3.015,-</b>	<b>3.225,-</b>	<b>4.580,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with new RAV-HM\*\*\*\*\* indoor units.

Super Digital Inverter – Floor standing unit

INDOOR UNIT OUTDOOR UNIT			1-phase				3-phase		
			RAV-RM561FT-ES* RAV-GP561ATW-E	RAV-RM801FT-ES* RAV-GP801ATW-E	RAV-RM1101FT-ES* RAV-GP1101AT-E	RAV-RM1401FT-ES* RAV-GP1401AT-E1	RAV-RM1101FT-ES* RAV-GP1101AT8-E	RAV-RM1401FT-ES* RAV-GP1401AT8-E	RAV-RM1601FT-ES* RAV-GP1601AT8-E
Cooling capacity	kW ❄️	5,00	7,10	10,00	12,50	10,00	12,50	14,00	
Cooling range (min.-max.)	kW ❄️	1,20 - 5,60	1,90 - 8,00	3,10 - 12,00	3,10 - 14,00	2,60 - 12,00	2,60 - 14,00	2,60 - 16,00	
Power consumption (min./nom./max.)	kW ❄️	-1,42/-	-2,04/-	-2,39/-	-3,52/-	0,66/2,46/ 4,10	0,66/3,61/ 4,91	0,66/4,39/ 6,50	
Energy efficiency EER	W/W ❄️	3,51	3,48	4,18	3,55	4,07	3,46	3,19	
Energy efficiency SEER	❄️	5,75	6,24	6,67	6,10	5,86	5,65	5,55	
Energy efficiency class	❄️	A+	A++	A++	-	A+	-	-	
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +46	-15 / +46	-15 / +46	
Heating capacity	kW 🔥	5,60	8,00	8,00	11,20	12,50	14,00	16,00	
Heating range (min.-max.)	kW 🔥	0,90 - 7,00	1,30 - 11,30	2,60 - 13,00	2,60 - 16,50	2,40 - 14,00	2,40 - 18,00	2,40 - 19,00	
Power consumption (min./nom./max.)	kW 🔥	-1,65/-	-2,37/-	-2,76/-	-3,97/-	0,53/3,09/ 4,80	0,53/3,81/ 5,95	0,53/4,83/ 6,96	
Energy efficiency COP	W/W 🔥	3,39	3,38	4,06	3,53	4,04	3,67	3,31	
Energy efficiency SCOP	🔥	4,20	4,41	4,37	4,35	4,00	4,00	3,96	
Energy efficiency class	🔥	A+	A+	A+	-	A+	-	-	
Outdoor temperature operating range (min.-max.)	°C 🔥	-27 / +15	-27 / +15	-27 / +15	-27 / +15	-20 / +15	-20 / +15	-20 / +15	
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	380-415/3+N/ 50	380-415/3+N/ 50	380-415/3+N/ 50	
Recommended fusing	A	16	16	25	25	3x 16	3x 16	3x 16	
<b>Set price incl. RBC-AMSU51-ES</b>	<b>€</b>	<b>4.995,-</b>	<b>5.770,-</b>	<b>7.510,-</b>	<b>8.020,-</b>	<b>7.420,-</b>	<b>7.670,-</b>	<b>8.305,-</b>	

INDOOR UNIT		RAV-RM561FT-ES*	RAV-RM801FT-ES*	RAV-RM1101FT-ES*	RAV-RM1401FT-ES*	RAV-RM1101FT-ES*	RAV-RM1401FT-ES*	RAV-RM1601FT-ES*
Airflow	m³/h	600/820	640/- / 930	1190/1660	1350/1760	1190/1660	1350/1760	1350/1760
Sound pressure level (low/med/high)	dB(A) ❄️	38/42/46	41/45/50	41/46/51	45/48/53	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A) 🔥	38/42/46	41/45/50	41/46/51	45/48/53	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm	1700 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg	44	45	59	59	59	59	59
<b>Price</b>	<b>€</b>	<b>2.590,-</b>	<b>2.725,-</b>	<b>3.005,-</b>	<b>3.065,-</b>	<b>3.005,-</b>	<b>3.065,-</b>	<b>3.120,-</b>

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1	RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Sound pressure level (low/med/high)	dB(A) ❄️	46	46	49	50	49	51	51
Sound pressure level (low/med/high)	dB(A) 🔥	48	48	50	51	50	52	53
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (¾)	15,9 (¾)	15,9 (¾)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5	5	5
Pipe length (max.)	m	50	50	75	75	75	75	75
Height difference (max.)	m	30	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,30	3,10	3,10	2,60	2,60	2,60
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	45	74	104	104	95	95	95
<b>Price</b>	<b>€</b>	<b>2.200,-</b>	<b>2.840,-</b>	<b>4.300,-</b>	<b>4.750,-</b>	<b>4.210,-</b>	<b>4.400,-</b>	<b>4.980,-</b>

You will find all the control options from page 118.

\* Indoor unit: while stocks last. Outdoor units also compatible with new RAV-HM\*\*\*\*\* indoor units.

# Floor standing unit



- › Perfect air circulation
- › Integrated leak detection system
  - › Optional accessories; remote control + cover kit

## Digital Inverter Next – Floor standing unit – 1-phase

INDOOR UNIT OUTDOOR UNIT			RAV-HM561FT-E RAV-GM562ATP-E	RAV-HM801FT-E RAV-GM802ATW-E	RAV-HM901FT-E RAV-GM902ATW-E	RAV-HM1101FT-E RAV-GM1102ATW-E	RAV-HM1401FT-E RAV-GM1402ATW-E	RAV-HM1601FT-E RAV-GM1602ATW-E
Cooling capacity	kW	❄️	5,00	6,70	8,00	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄️	1,50 - 5,60	1,90 - 8,00	1,90 - 8,80	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄️	0,30/1,79/ 2,00	0,37/2,23/ 2,91	0,37/2,42/ 3,02	0,60/2,71/ 3,28	0,60/4,32/ 4,62	0,60/5,632/ 6,19
Energy efficiency EER	W/W	❄️	2,79	3,01	3,30	3,50	2,80	2,63
Energy efficiency SEER		❄️	5,86	5,53	6,24	6,22	5,53	5,20
Energy efficiency class		❄️	A+	A	A++	A++	-	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	5,30	7,70	8,60	11,20	13,00	16,00
Heating range (min.-max.)	kW	🔥	1,50 - 6,30	1,60 - 9,00	1,60 - 9,90	3,00 - 13,00	3,00 - 16,00	3,00 - 17,00
Power consumption (min./nom./max.)	kW	🔥	0,22/1,72/ 2,70	0,32/2,48/ 3,17	0,32/2,32/ 3,31	0,70/3,10/ 3,79	0,70/3,95/ 5,03	0,70/5,65/ 6,16
Energy efficiency COP	W/W	🔥	3,08	3,11	3,70	3,61	3,29	2,83
Energy efficiency SCOP		🔥	4,01	4,00	4,00	3,92	3,90	3,90
Energy efficiency class		🔥	A+	A+	A+	A	-	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Recommended fusing	A		-	-	-	-	-	-
<b>Set price incl. RBC-AM5U1-ES</b>	€		<b>4.855,-</b>	<b>5.530,-</b>	<b>5.920,-</b>	<b>6.675,-</b>	<b>7.000,-</b>	<b>7.745,-</b>

INDOOR UNIT			RAV-HM561FT-E	RAV-HM801FT-E	RAV-HM901FT-E	RAV-HM1101FT-E	RAV-HM1401FT-E	RAV-HM1601FT-E
Airflow	m³/h		600 / - / 820	640 / - / 930	820 / - / 1330	1170 / - / 1660	1350 / - / 1760	1350 / - / 1760
Sound pressure level (low/med/high)	dB(A)	❄️	38/42/46	41/45/50	37/40/45	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A)	🔥	38/42/46	41/45/50	37/40/45	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm		1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg		44	46	59	59	59	59
<b>Price</b>	€		<b>2.730,-</b>	<b>2.875,-</b>	<b>3.035,-</b>	<b>3.170,-</b>	<b>3.235,-</b>	<b>3.290,-</b>

OUTDOOR UNIT			RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Sound pressure level (low/med/high)	dB(A)	❄️	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A)	🔥	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)		12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5	5	5	5
Pipe length (max.)	m		30	50	50	50	50	50
Height difference (max.)	m		30	30	30	30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32	R32	R32	R32
Refrigerant charge	kg		0,90	1,90	1,90	2,40	2,40	2,40
Dimensions (HxWxD)	mm		550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		40	47	47	85	85	88
<b>Price</b>	€		<b>1.920,-</b>	<b>2.450,-</b>	<b>2.680,-</b>	<b>3.300,-</b>	<b>3.560,-</b>	<b>4.250,-</b>

You will find all the control options from page 118.





Digital Inverter Next – Floor standing unit – 3-phase

INDOOR UNIT OUTDOOR UNIT			RAV-HM1101FT-E RAV-GM1102AT8W-E	RAV-HM1401FT-E RAV-GM1402AT8W-E	RAV-HM1601FT-E RAV-GM1602AT8W-E
Cooling capacity	kW	❄️	9,50	12,10	14,00
Cooling range (min.-max.)	kW	❄️	3,00 - 11,20	3,00 - 13,20	3,00 - 15,00
Power consumption (min./nom./max.)	kW	❄️	0,64/2,67/3,24	0,64/4,24/4,58	0,64/5,22/6,09
Energy efficiency EER	W/W	❄️	3,55	2,85	2,68
Energy efficiency SEER		❄️	5,88	5,35	5,15
Energy efficiency class		❄️	A+	-	-
Outdoor temperature operating range (min.-max.)	°C	❄️	-15 / +46	-15 / +46	-15 / +46
Heating capacity	kW	🔥	11,20	13,00	16,00
Heating range (min.-max.)	kW	🔥	3,00 - 15,00	3,00 - 16,00	3,00 - 18,00
Power consumption (min./nom./max.)	kW	🔥	0,74/3,07/3,75	0,74/3,89/4,99	0,74/5,65/7,55
Energy efficiency COP	W/W	🔥	3,64	3,34	2,83
Energy efficiency SCOP		🔥	3,92	3,90	3,82
Energy efficiency class		🔥	A	-	-
Outdoor temperature operating range (min.-max.)	°C	🔥	-15 / +15	-15 / +15	-15 / +15
Power supply	V/Ph+N/Hz		380-415/3+N/50	380-415/3+N/50	380-415/3+N/50
Recommended fusing	A		-	-	-
<b>Set price incl. RBC-AMSU51-ES</b>	€		<b>7.155,-</b>	<b>7.540,-</b>	<b>8.275,-</b>

INDOOR UNIT			RAV-HM1101FT-E	RAV-HM1401FT-E	RAV-HM1601FT-E
Airflow	m³/h		1170/ - /1660	1350/ - /1760	1350/ - /1760
Sound pressure level (low/med/high)	dB(A)	❄️	41/46/51	45/48/53	45/48/53
Sound pressure level (low/med/high)	dB(A)	🔥	41/46/51	45/48/53	45/48/53
Dimensions (HxWxD)	mm		1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg		59	59	59
<b>Price</b>	€		<b>3.170,-</b>	<b>3.235,-</b>	<b>3.290,-</b>

OUTDOOR UNIT			RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Sound pressure level (low/med/high)	dB(A)	❄️	53	56	57
Sound pressure level (low/med/high)	dB(A)	🔥	56	56	56
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m		5	5	5
Pipe length (max.)	m		50	50	50
Height difference (max.)	m		30	30	30
Compressor type			Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant			R32	R32	R32
Refrigerant charge	kg		2,40	2,40	2,40
Dimensions (HxWxD)	mm		1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg		85	85	88
<b>Price</b>	€		<b>3.780,-</b>	<b>4.100,-</b>	<b>4.780,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-AMSU51-ES</b>	Comfort wired remote control with backlit display	<b>205,-</b>
<b>TCB-CKC1F-E</b>	Optional cover kit	<b>70,-</b>

You will find all the control options from page 118.

# Direct expansion kits

## INTEGRATION OF 3RD PARTY HEAT EXCHANGERS

The direct expansion (DX) kit allows heat exchangers from other manufacturers to be incorporated into a TOSHIBA system. It is ideal for use with air handling units or air curtains. The kit is expandable for larger capacities. The wiring is ready to connect. An appropriate valve kit is needed for use.

### DX-kit exhaust air controlled RAV-DXC010

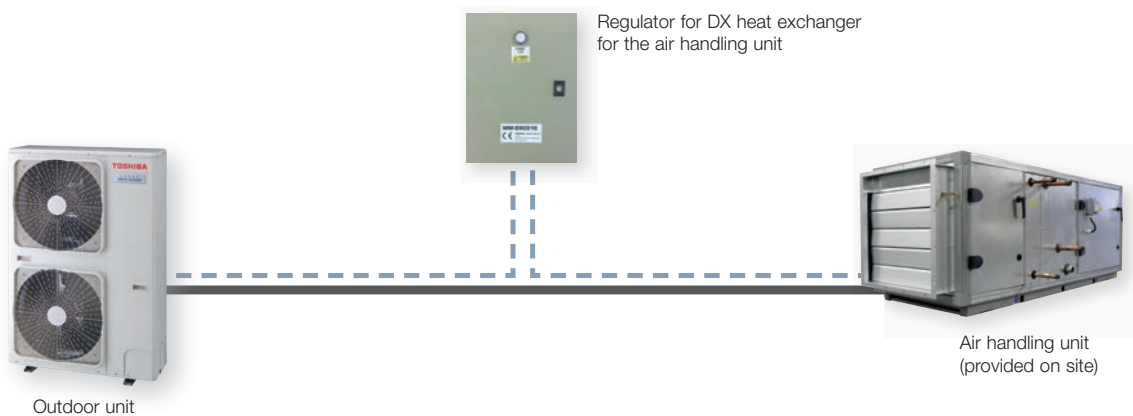
RAV DX interface for connecting a TOSHIBA heat pump to an external DX-coil, consisting of a control cabinet and all the necessary sensors.

Compatible with outdoor units from the following product lines:

- › Digital Inverter
- › Super Digital Inverter
- › Digital Inverter BIG

Supply air temperature operating limits:

- › Cooling mode: "Air On" temp.: Min. 15°C WB (18°C DB) / Max. 24°C WB (32°C DB)
- › Heating mode: "Air On" temp.: Min. 15°C DB / Max. 28°C DB





## DX-kit 0 – 10 V capacity control RBC-DXC031



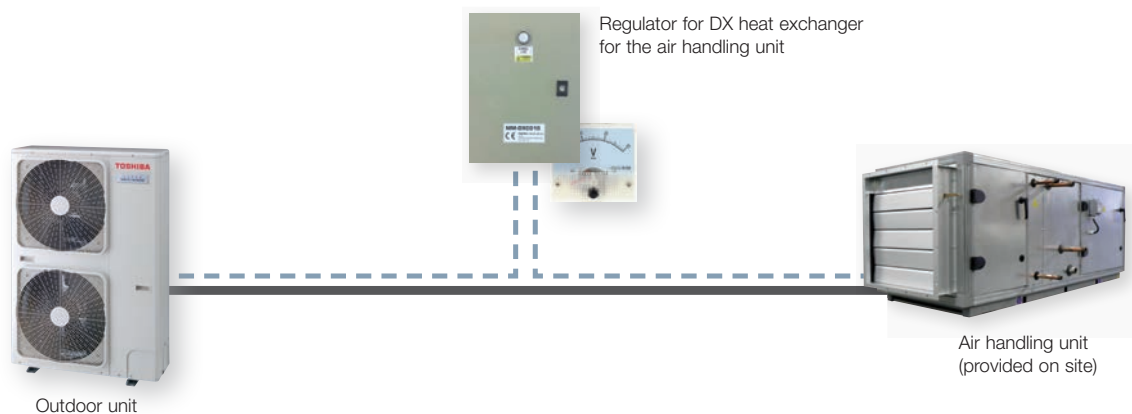
The RAV / VRF DX interface enables capacity control of a TOSHIBA heat pump with external DX-coil by means of a 0 – 10 V signal from the existing building management system.

Compatible with outdoor units from the following product lines:

- › Digital Inverter
- › Super Digital Inverter
- › Digital Inverter NEXT
- › Digital Inverter BIG
- › VRF – only with 8 & 10 HP

### Functions

- › The controller can be configured for RAV or VRF using DIP switches
- › RAV systems use the pulse modulation valve installed in the outdoor unit; no further accessories are needed
- › No TA sensor is needed on the coil
- › Analog input for capacity demand (0 – 10 V signal)
- › Digital inputs for ON / OFF, operating mode, disabling the remote control and digital outputs for error and alarm messages, defrost, fan motor, etc.



# Performance data for DX-kits

- › Direct expansion kit with PCB, transformer, and terminal strips
- › Remote control required
- › Can be used together with air handling units and air curtains
- › Available in two different versions for exhaust air temperature control or 0 – 10 V control



MODEL	REFRIGERANT	COOLING CAPACITY MIN.-MAX. (kW)	HEATING CAPACITY MIN.-MAX. (kW)	AIRFLOW STANDARD (m³/h)	VOLUME DX-COIL (dm³)	
DI	RAV-GM301ATP-E	R32	0.90 – 3.00	0.80 – 4.50	570	0.5 – 0.7
DI	RAV-GM401ATP-E	R32	0.90 – 4.00	0.80 – 5.00	610	0.5 – 0.7
DI	RAV-GM561ATP-E	R32	1.50 – 5.60	1.50 – 6.30	900	0.8 – 1.1
SDI	RAV-GP561ATW-E	R32	1.20 – 5.60	0.90 – 7.40	900	0.8 – 1.1
DI	RAV-GM801ATP-E	R32	1.50 – 7.40	1.50 – 9.00	1320	1.0 – 1.4
SDI	RAV-GP801ATW-E	R32	1.90 – 8.00	1.30 – 11.30	1320	1.0 – 1.4
DI	RAV-GM1101ATP/AT8P-E	R32	3.00 – 11.20	3.00 – 11.20	1600	1.5 – 2.1
SDI	RAV-GP1101AT/AT8-E	R32	3.10 – 12.00	2.60 – 13.00	1600	1.5 – 2.1
DI	RAV-GM1401ATP/AT8P-E	R32	3.00 – 13.20	3.00 – 16.00	2100	1.7 – 2.7
SDI	RAV-GP1401AT-E1/AT8-E	R32	3.10 – 14.00	2.60 – 16.50	2100	1.7 – 2.7
DI	RAV-GM1601ATP-E/AT8P-E	R32	2.60 – 16.00	2.40 – 19.00	2720	1.7 – 3.2
SDI	RAV-GP1601AT8-E	R32	2.60 – 16.00	2.40 – 19.00	2720	1.7 – 3.2
DI BIG	RAV-GM2241AT8-E1	R32	9.80 – 22.40	9.80 – 25.00	3600	3.0 – 4.2
DI BIG	RAV-GM2801AT8-E1	R32	9.80 – 27.00	9.80 – 31.50	4200	3.0 – 5.4

DI: Digital Inverter SDI: Super Digital Inverter

TYPE	Power supply	Dimensions (HxWxD)	Weight	PRICE €
	V/Ph+N/Hz	mm	kg	
RAV-DXC010	220-240/1N/50	400 x 300 x 150	8	1.410,-
RBC-DXC031	220-240/1/50	400 x 300 x 150	8	1.505,-

Supply air temperature operating limits

Cooling mode: "Air On" temp.: Min. 15°C WB (18°C DB) / Max. 24°C WB (32°C DB)

Heating mode: "Air On" temp.: Min. 15°C DB / Max. 28°C DB

The pipe volume of the DX heat exchanger should be calculated as described in the installation manual; a tolerance of +/- 10% is permissible.

You will find R32 outdoor units from page 108.

## RAV split solutions for one temperature zone

- › Cost-effective multi-solutions for one temperature zone
- › Twin, triple, and double twin split combinations with up to four indoor units
- › The indoor unit models must be identical for multi solutions (same type and capacity)

## Branch assembly kits for multi installations

### DIGITAL INVERTER BIG

ACCESSORIES	DESCRIPTION	PRICE €
RBC-TWP101E	Branch for twin kit - 22.40 and 28.00 kW	315,-
RBC-TRP100E	Triple kit - DI BIG: 22.40 and 28.00 kW / DI + SDI: 16.00 kW	430,-
RBC-DTWP101E	Branch for double twin kit - 22.40 and 28.00 kW	435,-

### DIGITAL INVERTER / SUPER DIGITAL INVERTER

ACCESSORIES	DESCRIPTION	PRICE €
RBC-TWP30E2	Branch for twin kit - 11.20 kW	145,-
RBC-TWP50E2	Branch for twin kit - 14.00 kW	150,-
RBC-TRP100E	Triple kit - DI BIG: 22.40 and 28.00 kW / DI + SDI: 16.00 kW	430,-



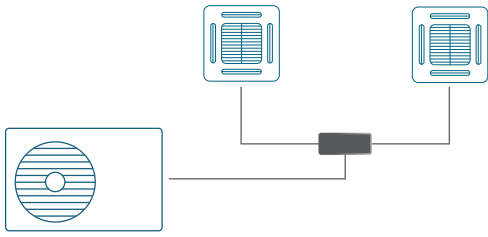


LIGHT BUSINESS / RAV



## TWIN

Digital / Super Digital Inverter / Digital Inverter NEXT

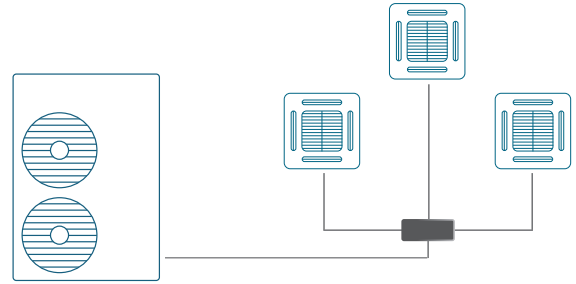


Combination options (model)\*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
11.2	5.6 + 5.6	RBC-TWP30E2
14.0	8.0 + 8.0	RBC-TWP50E2

## TRIPLE

Digital / Super Digital Inverter / Digital Inverter NEXT

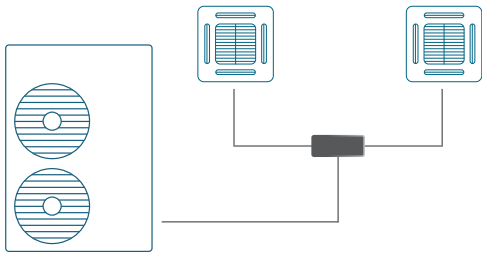


Combination options (model)\*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
16	5.6 + 5.6 + 5.6	RBC-TRP100E

## TWIN

Digital Inverter BIG

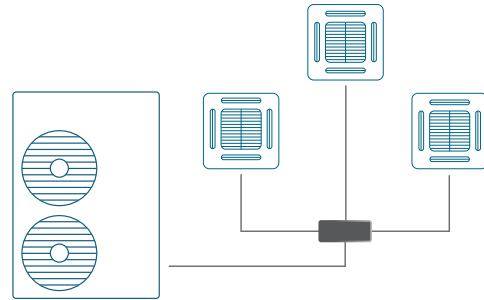


Combination options (model)\*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	11.2 + 11.2	RBC-TWP101E
28.0	14.0 + 14.0	RBC-TWP101E

## TRIPLE

Digital Inverter BIG

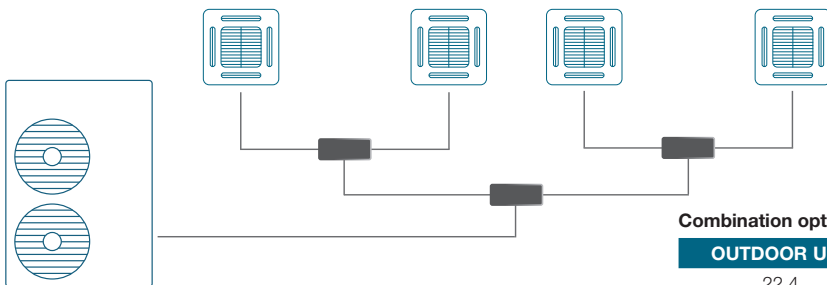


Combination options (model)\*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	8.0 + 8.0 + 8.0	RBC-TRP100E
28.0	8.0 + 8.0 + 8.0	RBC-TRP100E

## DOUBLE TWIN

Digital Inverter BIG



Combination options (model)\*

OUTDOOR UNIT	INDOOR UNIT	BRANCH KIT
22.4	5.6 + 5.6 + 5.6 + 5.6	RBC-DTWP101E
28.0	8.0 + 8.0 + 8.0 + 8.0	RBC-DTWP101E

These are extracts – refer to the appropriate data sheets for the full combinations, data, and values.

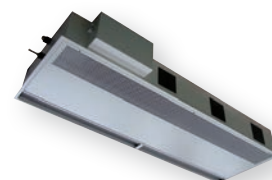
# Air curtain

- Heating operation or efficient airlock for entrance areas
- Compatible with Digital and Super Digital Inverters
- Not a stock item – lead time on request
- Combinable outdoor units on request



## FREE-HANGING UNIT

INDOOR UNIT		RAV-CT101CH-M	RAV-CT101CH-L	RAV-CT151CH-M	RAV-CT151CH-L	RAV-CT201CH-M	RAV-CT201CH-L	RAV-CT251CH-M	RAV-CT251CH-L
Heating capacity	kW	✱ 8,00	8,00	11,20	11,20	14,00	14,00	16,00	16,00
Airflow	m³/h	1600	2210	2400	2950	3200	4420	4000	5160
Power consumption (min./nom./max.)	kW	✱ 0,35	0,53	0,53	0,70	0,70	1,05	0,88	1,23
Sound pressure level (low/med/high)	dB(A)	✱ 54	55	55	56	56	57	57	58
Weight	kg	48	51	77	80	101	107	132	138
Dimensions (HxWxD)	mm	260 x 1210 x 490	260 x 1210 x 490	260 x 1710 x 490	260 x 1710 x 490	260 x 2210 x 490	260 x 2210 x 490	260 x 2710 x 490	260 x 2710 x 490
<b>Price</b>	<b>€</b>	<b>9.250,-</b>	<b>9.620,-</b>	<b>10.820,-</b>	<b>11.165,-</b>	<b>12.170,-</b>	<b>13.695,-</b>	<b>13.745,-</b>	<b>15.090,-</b>



## CASSETTE UNIT

INDOOR UNIT		RAV-CT101UH-M	RAV-CT101UH-L	RAV-CT151UH-M	RAV-CT151UH-L	RAV-CT201UH-M	RAV-CT201UH-L	RAV-CT251UH-M	RAV-CT251UH-L
Heating capacity	kW	✱ 8,00	8,00	11,20	11,20	14,00	14,00	16,00	16,00
Airflow	m³/h	1600	2210	2400	2950	3200	4420	4000	5160
Power consumption (min./nom./max.)	kW	✱ 0,35	0,53	0,53	0,70	0,70	1,05	0,88	1,23
Sound pressure level (low/med/high)	dB(A)	✱ 54	55	55	56	56	57	57	58
Weight	kg	40	43	95	98	99	105	120	126
Dimensions (HxWxD)	mm	260 x 1050 x 780	260 x 1050 x 780	260 x 1550 x 780	260 x 1550 x 780	260 x 2050 x 780	260 x 2050 x 780	260 x 2550 x 780	260 x 2550 x 780
<b>Price</b>	<b>€</b>	<b>9.725,-</b>	<b>10.140,-</b>	<b>10.900,-</b>	<b>11.505,-</b>	<b>12.330,-</b>	<b>13.785,-</b>	<b>14.670,-</b>	<b>16.080,-</b>



## BUILT-IN UNIT

INDOOR UNIT		RAV-CT101BH-M	RAV-CT101BH-L	RAV-CT151BH-M	RAV-CT151BH-L	RAV-CT201BH-M	RAV-CT201BH-L	RAV-CT251BH-M	RAV-CT251BH-L
Heating capacity	kW	✱ 8,00	8,00	11,20	11,20	14,00	14,00	16,00	16,00
Airflow	m³/h	1600	2210	2400	2950	3200	4420	4000	5160
Power consumption (min./nom./max.)	kW	✱ 0,35	0,53	0,53	0,70	0,70	1,05	0,88	1,23
Sound pressure level (low/med/high)	dB(A)	✱ 54	55	55	56	56	57	57	58
Weight	kg	71	74	105	108	129	135	170	176
Dimensions (HxWxD)	mm	405-485 x 1105 x 720	405-485 x 1105 x 720	405-485 x 1605 x 720	405-485 x 1605 x 720	405-485 x 2105 x 720	405-485 x 2105 x 720	405-485 x 2605 x 720	405-485 x 2605 x 720
<b>Price</b>	<b>€</b>	<b>10.205,-</b>	<b>10.515,-</b>	<b>12.100,-</b>	<b>12.330,-</b>	<b>13.675,-</b>	<b>14.705,-</b>	<b>15.380,-</b>	<b>16.600,-</b>

LIGHT BUSINESS / RAV

# Digital Inverter

- › Compact – durable – efficient
- › Operating range from -15°C to +46°C
- › Pipe lengths up to 50 m



## Digital Inverter – 1-phase

OUTDOOR UNIT		RAV-GM301ATP-E	RAV-GM401ATP-E	RAV-GM561ATP-E	RAV-GM801ATP-E
Cooling capacity	kW ❄️	2,50	3,60	5,00	6,70
Heating capacity	kW 🔥	3,40	4,00	5,30	7,70
Sound pressure level (low/med/high)	dB(A) ❄️	46	49	46	48
Sound pressure level (low/med/high)	dB(A) 🔥	47	50	48	52
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (1/2)	12,7 (1/2)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (1/4)	6,3 (1/4)	6,3 (1/4)	9,5 (3/8)
Pipe length (min.)	m	2	2	5	5
Pipe length (max.)	m	20	20	30	30
Height difference (max.)	m	10	10	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50
Recommended fusing	A	10	10	16	16
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	0,60	0,90	0,90	1,30
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290
Weight	kg	33	39	40	44
<b>Price</b>	<b>€</b>	<b>1.180,-</b>	<b>1.450,-</b>	<b>1.645,-</b>	<b>2.110,-</b>

OUTDOOR UNIT		RAV-GM901ATP-E	RAV-GM1101ATP-E	RAV-GM1401ATP-E	RAV-GM1601ATP-E
Cooling capacity	kW ❄️	8,00	10,00	12,00	14,00
Heating capacity	kW 🔥	9,00	11,20	14,00	16,00
Sound pressure level (low/med/high)	dB(A) ❄️	51	54	55	53
Sound pressure level (low/med/high)	dB(A) 🔥	55	57	57	55
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5
Pipe length (max.)	m	50	50	50	50
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50
Recommended fusing	A	16	20	25	25
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	2,00	2,10	2,10	2,40
Dimensions (HxWxD)	mm	630 x 800 x 300	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
Weight	kg	47	68	68	95
<b>Price</b>	<b>€</b>	<b>2.330,-</b>	<b>2.770,-</b>	<b>2.990,-</b>	<b>4.000,-</b>

## Digital Inverter – 3-phase

OUTDOOR UNIT		RAV-GM1101AT8P-E	RAV-GM1401AT8P-E	RAV-GM1601AT8P-E
Cooling capacity	kW ❄️	10,00	12,00	14,00
Heating capacity	kW 🔥	11,20	14,00	16,00
Sound pressure level (low/med/high)	dB(A) ❄️	54	55	53
Sound pressure level (low/med/high)	dB(A) 🔥	57	57	55
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	50	50	50
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3N/50	380-415/3N/50	380-415/3N/50
Recommended fusing	A	3 x 16	3 x 16	3 x 16
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,10	2,10	2,40
Dimensions (HxWxD)	mm	890 x 900 x 320	890 x 900 x 320	1340 x 900 x 320
Weight	kg	69	69	94
<b>Price</b>	€	<b>3.015,-</b>	<b>3.225,-</b>	<b>4.580,-</b>



# Digital Inverter CLASSIC

- Robust CLASSIC Line with compact & lightweight chassis
- Durable and efficient
- Operating range from -15°C to +46°C
- Pipe lengths up to 30 m



## Digital Inverter CLASSIC – 1-phase

OUTDOOR UNIT		RAV-GV561ATP-E	RAV-GV801ATP-E	RAV-GV1101ATP-E	RAV-GV1401ATP-E	RAV-GV1601ATP-E
Cooling capacity	kW ❄️	5,00	6,70	9,50	11,50	13,00
Heating capacity	kW 🔥	5,30	7,70	10,00	11,90	13,50
Sound pressure level (low/med/high)	dB(A) ❄️	46	48	53	53	57
Sound pressure level (low/med/high)	dB(A) 🔥	48	51	55	60	59
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5	5	5
Pipe length (max.)	m	20	30	30	30	30
Height difference (max.)	m	20	20	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50
Recommended fusing	A	16	16	20	25	25
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	0,90	1,40	1,70	1,90	2,20
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	630 x 800 x 300	710 x 900 x 320	890 x 900 x 320
Weight	kg	36	39	45	57	64
Price	€	<b>1.440,-</b>	<b>1.875,-</b>	<b>2.390,-</b>	<b>2.710,-</b>	<b>3.525,-</b>

## Digital Inverter CLASSIC – 3-phase

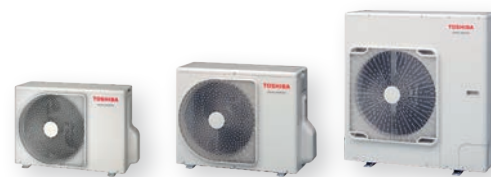
OUTDOOR UNIT		RAV-GV1101AT8P-E	RAV-GV1401AT8P-E	RAV-GV1601AT8P-E
Cooling capacity	kW ❄️	9,50	12,10	13,00
Heating capacity	kW 🔥	10,00	12,30	16,00
Sound pressure level (low/med/high)	dB(A) ❄️	53	53	57
Sound pressure level (low/med/high)	dB(A) 🔥	55	60	59
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	30	30	30
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3N/50	380-415/3N/50	380-415/3N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Refrigerant		R32	R32	R32
Refrigerant charge	kg	1,70	1,90	2,20
Dimensions (HxWxD)	mm	710 x 900 x 320	710 x 900 x 320	890 x 900 x 320
Weight	kg	60	60	63
Price	€	<b>2.765,-</b>	<b>2.980,-</b>	<b>4.105,-</b>





# Digital Inverter NEXT

- › NEXT level: compact – durable – efficient
- › Easy-install features
- › Easy commissioning functions
- › 3-level silent setting



## Digital Inverter NEXT – 1-phase

OUTDOOR UNIT		RAV-GM302ATP-E	RAV-GM402ATP-E	RAV-GM562ATP-E	RAV-GM802ATW-E	RAV-GM902ATW-E	RAV-GM1102ATW-E	RAV-GM1402ATW-E	RAV-GM1602ATW-E
Cooling capacity	kW ❄️	2,50	3,60	5,00	6,70	8,00	10,00	12,00	14,00
Heating capacity	kW 🔥	3,40	4,00	5,30	7,70	9,00	11,20	14,00	16,00
Sound pressure level (low/med/high)	dB(A) ❄️	46	49	46	50	52	53	56	57
Sound pressure level (low/med/high)	dB(A) 🔥	47	50	48	52	55	56	56	56
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (¼)	6,3 (¼)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	2	2	5	5	5	5	5	5
Pipe length (max.)	m	20	20	30	50	50	50	50	50
Height difference (max.)	m	10	10	30	30	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50
Recommended fusing	A	10	10	16	16	16	20	25	25
Refrigerant		R32	R32	R32	R32	R32	R32	R32	R32
Refrigerant charge	kg	0,60	0,90	0,90	1,30	2,00	2,10	2,10	2,40
Dimensions (HxWxD)	mm	550 x 780 x 290	550 x 780 x 290	550 x 780 x 290	630 x 799 x 299	630 x 799 x 299	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	33	39	40	47	47	85	85	88
<b>Price</b>	<b>€</b>	<b>1.320,-</b>	<b>1.610,-</b>	<b>1.920,-</b>	<b>2.450,-</b>	<b>2.680,-</b>	<b>3.300,-</b>	<b>3.560,-</b>	<b>4.250,-</b>

## Digital Inverter NEXT – 3-phase

OUTDOOR UNIT		RAV-GM1102AT8W-E	RAV-GM1402AT8W-E	RAV-GM1602AT8W-E
Cooling capacity	kW ❄️	10,00	12,00	14,00
Heating capacity	kW 🔥	11,20	14,00	16,00
Sound pressure level (low/med/high)	dB(A) ❄️	53	56	57
Sound pressure level (low/med/high)	dB(A) 🔥	56	56	56
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	50	50	50
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3N/50	380-415/3N/50	380-415/3N/50
Recommended fusing	A	3 x 16	3 x 16	3 x 16
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,10	2,10	2,40
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	85	85	88
<b>Price</b>	<b>€</b>	<b>3.780,-</b>	<b>4.100,-</b>	<b>4.780,-</b>

# Super Digital Inverter

- › Compact – durable – highly efficient
- › Operating range from -27°C to +52°C
- › Pipe lengths up to 75 m



## Super Digital Inverter – 1-phase

OUTDOOR UNIT		RAV-GP561ATW-E	RAV-GP801ATW-E	RAV-GP1101AT-E	RAV-GP1401AT-E1
Cooling capacity	kW ❄️	5,30	7,10	10,00	12,50
Heating capacity	kW 🔥	5,60	8,00	11,20	14,00
Sound pressure level (low/med/high)	dB(A) ❄️	46	46	49	50
Sound pressure level (low/med/high)	dB(A) 🔥	48	48	50	51
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	6,3 (¼)	9,5 (3/8)	9,5 (3/8)	-
Pipe length (min.)	m	5	5	5	3
Pipe length (max.)	m	50	50	75	75
Height difference (max.)	m	30	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	220-240/1N/50	220-240/1N/50	220-240/1N/50	220-240/1N/50
Recommended fusing	A	16	16	20	25
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	1,35	1,90	3,10	3,10
Dimensions (HxWxD)	mm	630 x 799 x 299	1050 x 1010 x 370	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	45	74	104	104
Price	€	<b>2.200,-</b>	<b>2.840,-</b>	<b>4.300,-</b>	<b>4.750,-</b>

## Super Digital Inverter – 3-phase

OUTDOOR UNIT		RAV-GP1101AT8-E	RAV-GP1401AT8-E	RAV-GP1601AT8-E
Cooling capacity	kW ❄️	10,00	12,50	14,00
Heating capacity	kW 🔥	11,20	14,00	16,00
Sound pressure level (low/med/high)	dB(A) ❄️	49	51	51
Sound pressure level (low/med/high)	dB(A) 🔥	50	52	53
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (min.)	m	5	5	5
Pipe length (max.)	m	75	75	75
Height difference (max.)	m	30	30	30
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3N/50	380-415/3N/50	380-415/3N/50
Recommended fusing	A	3x 16	3x 16	3x 16
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,60	2,60	2,60
Dimensions (HxWxD)	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Weight	kg	95	95	95
Price	€	<b>4.210,-</b>	<b>4.400,-</b>	<b>4.980,-</b>

# Digital Inverter BIG

- › Robust 3-phase endurance runner
- › Operating range from -27°C to +52°C
- › Pipe lengths up to 100 m



## Digital Inverter BIG – 3-phase

OUTDOOR UNIT		RAV-GM2241AT8-E1	RAV-GM2801AT8-E1
Cooling capacity	kW ❄️	19,00	22,50
Heating capacity	kW 🔥	22,40	27,00
Sound pressure level (low/med/high)	dB(A) ❄️	58	61
Sound pressure level (low/med/high)	dB(A) 🔥	60	63
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)
Pipe length (min.)	m	5	5
Pipe length (max.)	m	100	100
Height difference (max.)	m	30	30
Compressor type		Twin-Rotary	Twin-Rotary
Power supply	V/Ph+N/Hz	380-415/3N/50	380-415/3N/50
Recommended fusing	A	3x 20	3x 25
Refrigerant		R32	R32
Refrigerant charge	kg	5,00	5,00
Dimensions (HxWxD)	mm	1550 x 1010 x 370	1550 x 1010 x 370
Weight	kg	142	142
<b>Price</b>	<b>€</b>	<b>7.390,-</b>	<b>8.120,-</b>

LIGHT BUSINESS / RAV



Cellphone Store Wies,  
Cool Company Kälte-Klima-Gastro GmbH

# Outdoor units quick view

TYPE	Pipe length (min.)	Pipe length (max.)	Pre-charged up to	Height difference (max.)	Suction gas pipe diameter	Liquid pipe diameter	Refrigerant charge	Added refrigerant charge
	m	m	m	m	mm (inch)	mm (inch)	kg	g/m
<b>DIGITAL INVERTER 1-phase</b>								
RAV-GM301ATP-E	2	20	15	10	9,5 (3/8)	6,3 (1/4)	0,60	20
RAV-GM401ATP-E	2	20	15	10	12,7 (1/2)	6,3 (1/4)	0,90	20
RAV-GM561ATP-E	5	30	20	30	12,7 (1/2)	6,3 (1/4)	0,90	20
RAV-GM801ATP-E	5	30	20	30	15,9 (5/8)	9,5 (3/8)	1,30	35
RAV-GM901ATP-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,00	35
RAV-GM1101ATP-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1401ATP-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1601ATP-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	40
<b>DIGITAL INVERTER 3-phase</b>								
RAV-GM1101AT8P-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1401AT8P-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1601AT8P-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	40
<b>DIGITAL INVERTER CLASSIC 1-phase</b>								
RAV-GV561ATP-E	5	20	20	20	12,7 (1/2)	6,3 (1/4)	0,90	20
RAV-GV801ATP-E	5	30	20	20	15,9 (5/8)	9,5 (3/8)	1,40	35
RAV-GV1101ATP-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,70	35
RAV-GV1401ATP-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GV1601ATP-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	2,20	35
<b>DIGITAL INVERTER CLASSIC 3-phase</b>								
RAV-GV1101AT8P-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,70	35
RAV-GV1401AT8P-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GV1601AT8P-E	5	30	30	30	15,9 (5/8)	9,5 (3/8)	2,20	35
<b>DIGITAL INVERTER NEXT 1-phase</b>								
RAV-GM302ATP-E	2	20	15	10	9,5 (3/8)	6,3 (1/4)	0,60	20
RAV-GM402ATP-E	2	20	15	10	12,7 (1/2)	6,3 (1/4)	0,90	20
RAV-GM562ATP-E	5	30	20	30	12,7 (1/2)	6,3 (1/4)	0,90	20
RAV-GM802ATW-E	5	50	20	30	15,9 (5/8)	9,5 (3/8)	1,30	35
RAV-GM902ATW-E	5	50	20	30	15,9 (5/8)	9,5 (3/8)	2,00	35
RAV-GM1102ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1402ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1602ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
<b>DIGITAL INVERTER NEXT 3-phase</b>								
RAV-GM1102AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1402AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,10	35
RAV-GM1602AT8W-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	2,40	35
<b>SUPER DIGITAL INVERTER 1-phase</b>								
RAV-GP561ATW-E	5	50	20	30	12,7 (1/2)	6,3 (1/4)	1,35	20
RAV-GP801ATW-E	5	50	30	30	15,9 (5/8)	9,5 (3/8)	1,90	35
RAV-GP1101AT-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	3,10	35
RAV-GP1401AT-E1	3	75	30	30	15,9 (5/8)	9,5 (3/8)	3,10	35
<b>SUPER DIGITAL INVERTER 3-phase</b>								
RAV-GP1101AT8-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
RAV-GP1401AT8-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
RAV-GP1601AT8-E	5	75	30	30	15,9 (5/8)	9,5 (3/8)	2,60	40
<b>DIGITAL INVERTER BIG</b>								
RAV-GM2241AT8-E1	5	100	30	30	28,6 (1 1/8)	12,7 (1/2)	5,00	40
RAV-GM2801AT8-E1	5	100	30	30	28,6 (1 1/8)	12,7 (1/2)	5,00	80





*BERNHARD R. MOSER Photography Hallein,  
Hasenbichler Kälte- und Klimatechnik*



# Current Consumption + Fusing





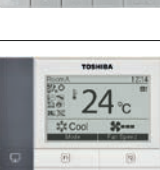


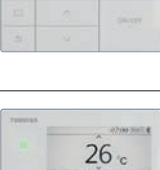




TYPE	Current consumption (max.)	Current consumption (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW ❄️	kW 🔥	A	V/Ph+N/Hz		
<b>DIGITAL INVERTER 1-phase</b>								
RAV-GM301ATP-E	7,8	2,7	0,25/0,56/0,82	0,17/0,86/1,40	10	220-240/1N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAV-GM401ATP-E	9,1	4,4	0,18/0,93/2,00	0,14/0,97/1,70	10	220-240/1N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAV-GM561ATP-E	15,5	8,5	-/1,79/-	-/1,72/-	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM801ATP-E	15,5	11,7	-/3,18/-	-/3,20/-	16	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM901ATP-E	-	-	2,58	2,65	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM1101ATP-E	22,8	13,8	-/3,06/-	-/3,19/-	20	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM1401ATP-E	22,8	20,5	-/4,71/-	-/4,01/-	25	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM1601ATP-E	-	-	-/4,39/-	-/4,83/-	25	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
<b>DIGITAL INVERTER 3-phase</b>								
RAV-GM1101AT8P-E	14,1	4,6	-/3,06/-	-/3,19/-	3 x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
RAV-GM1401AT8P-E	14,1	6,8	-/4,71/-	-/4,01/-	3 x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
RAV-GM1601AT8P-E	-	-	-/4,39/-	-/4,83/-	3 x 16	380-415/3N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
<b>DIGITAL INVERTER CLASSIC 1-phase</b>								
RAV-GV561ATP-E	-	-	-/1,60/-	-/1,40/-	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV801ATP-E	-	-	-/2,30/-	-/2,33/-	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1101ATP-E	-	-	-/3,17/-	-/3,00/-	20	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1401ATP-E	-	-	-/4,70/-	-/3,90/-	25	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GV1601ATP-E	-	-	-/5,40/-	-/4,00/-	25	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
<b>DIGITAL INVERTER CLASSIC 3-phase</b>								
RAV-GV1101AT8P-E	-	-	-/3,06/-	-/2,94/-	3x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
RAV-GV1401AT8P-E	-	-	-/4,90/-	-/4,10/-	3x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
RAV-GV1601AT8P-E	-	-	-/5,40/-	-/4,00/-	3x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
<b>DIGITAL INVERTER NEXT 1-phase</b>								
RAV-GM302ATP-E	7,8	2,7	0,19/0,69/0,92	0,16/1,03/1,50	10	220-240/1N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAV-GM402ATP-E	9,1	4,4	0,32/1,13/1,40	0,18/1,32/2,00	10	220-240/1N/50	H07RN-F 3G1,5	H07RN-F 4G1,5
RAV-GM562ATP-E	15,5	8,5	0,30/1,79/2,00	0,22/1,72/2,70	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM802ATW-E	-	-	0,37/2,23/2,91	0,32/2,48/3,17	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM902ATW-E	-	-	0,37/2,42/3,02	0,32/2,32/3,31	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GM1102ATW-E	-	13,8	0,60/2,71/3,28	0,70/3,10/3,79	20	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM1402ATW-E	-	20,5	0,60/4,32/4,62	0,70/3,95/5,03	25	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GM1602ATW-E	-	-	0,60/5,63/6,19	0,70/5,65/6,16	25	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
<b>DIGITAL INVERTER NEXT 3-phase</b>								
RAV-GM1102AT8W-E	-	4,6	0,64/2,67/3,24	0,74/3,07/3,75	3 x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
RAV-GM1402AT8W-E	-	6,8	0,64/4,24/4,58	0,74/3,89/4,99	3 x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
RAV-GM1602AT8W-E	-	-	0,64/5,22/6,09	0,74/5,65/7,55	3 x 16	380-415/3N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
<b>SUPER DIGITAL INVERTER 1-phase</b>								
RAV-GP561ATW-E	13,1	7,1	0,19/1,42/2,00	0,16/1,65/2,80	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GP801ATW-E	20,7	7,6	0,26/2,04/3,32	0,20/2,37/3,75	16	220-240/1N/50	H07RN-F 3G2,5	H07RN-F 4G1,5
RAV-GP1101AT-E	20,5	8,3	0,56/1,90/2,80	0,41/2,18/2,98	20	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
RAV-GP1401AT-E1	20,5	13,3	0,59/2,91/3,40	0,41/3,04/4,18	25	220-240/1N/50	H07RN-F 3G4,0	H07RN-F 4G1,5
<b>SUPER DIGITAL INVERTER 3-phase</b>								
RAV-GP1101AT8-E	16,2	4,7	0,66/2,32/3,60	0,53/2,41/4,30	3x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
RAV-GP1401AT8-E	16,5	6,5	0,66/3,42/3,60	0,53/3,41/5,50	3x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
RAV-GP1601AT8-E	16,9	7,5	0,66/4,34/5,70	0,53/4,28/6,51	3x 16	380-415/3N/50	H07RN-F 5G1,5	H07RN-F 4G1,5
<b>DIGITAL INVERTER BIG 3-phase</b>								
RAV-GM2241AT8-E1	18,0	9,1	1,27/5,86/9,05	1,27/5,71/10,15	3x 20	380-415/3N/50	H07RN-F 5G2,5	H07RN-F 4G1,5
RAV-GM2801AT8-E1	23,0	12,5	1,27/7,98/11,87	1,27/7,52/13,83	3x 25	380-415/3N/50	H07RN-F 5G2,5	H07RN-F 4G1,5

# Sound Power Level / Sound Pressure

TYPE	Sound power level	Sound power level	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Sound pressure level (night operation)
	dB(A) ❄️	dB(A) 🔴	dB(A) ❄️	dB(A) 🔴	dB(A) ❄️
<b>DIGITAL INVERTER 1-phase</b>					
RAV-GM301ATP-E	61	62	46	47	43/44
RAV-GM401ATP-E	64	65	49	50	46/47
RAV-GM561ATP-E	63	65	46	48	41/43
RAV-GM801ATP-E	65	69	48	52	41/43
RAV-GM901ATP-E	68	72	51	55	44/45
RAV-GM1101ATP-E	70	74	54	57	44/45
RAV-GM1401ATP-E	70	74	55	57	44/45
RAV-GM1601ATP-E	70	72	53	55	48/50
<b>DIGITAL INVERTER 3-phase</b>					
RAV-GM1101AT8P-E	70	74	54	57	44/45
RAV-GM1401AT8P-E	70	74	55	57	44/45
RAV-GM1601AT8P-E	70	72	53	55	48/50
<b>DIGITAL INVERTER CLASSIC 1-phase</b>					
RAV-GV561ATP-E	63	65	46	48	-
RAV-GV801ATP-E	65	68	48	51	-
RAV-GV1101ATP-E	70	72	53	55	-
RAV-GV1401ATP-E	70	77	53	60	-
RAV-GV1601ATP-E	74	76	57	59	-
<b>DIGITAL INVERTER CLASSIC 3-phase</b>					
RAV-GV1101AT8P-E	70	72	53	55	-
RAV-GV1401AT8P-E	70	77	53	60	-
RAV-GV1601AT8P-E	74	76	57	59	-
<b>DIGITAL INVERTER NEXT 1-phase</b>					
RAV-GM302ATP-E	61	62	46	47	43/44
RAV-GM402ATP-E	64	65	49	50	46/47
RAV-GM562ATP-E	63	65	46	48	41/43
RAV-GM802ATW-E	68	71	50	52	-
RAV-GM902ATW-E	68	71	52	55	-
RAV-GM1102ATW-E	70	73	53	56	-
RAV-GM1402ATW-E	73	74	56	56	-
RAV-GM1602ATW-E	74	74	57	56	-
<b>DIGITAL INVERTER NEXT 3-phase</b>					
RAV-GM1102AT8W-E	70	73	53	56	-
RAV-GM1402AT8W-E	73	74	56	56	-
RAV-GM1602AT8W-E	74	74	57	56	-
<b>SUPER DIGITAL INVERTER 1-phase</b>					
RAV-GP561ATW-E	63	65	46	48	41/43
RAV-GP801ATW-E	63	65	46	48	41/43
RAV-GP1101AT-E	66	67	49	50	44/45
RAV-GP1401AT-E1	67	68	50	51	-
<b>SUPER DIGITAL INVERTER 3-phase</b>					
RAV-GP1101AT8-E	66	67	49	50	45
RAV-GP1401AT8-E	68	69	51	52	45
RAV-GP1601AT8-E	68	70	51	53	45
<b>DIGITAL INVERTER BIG 3-phase</b>					
RAV-GM2241AT8-E1	76	76	58	60	53/55
RAV-GM2801AT8-E1	78	80	61	63	56/58







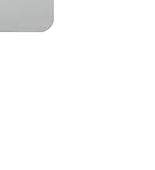

**Sound pressure night operation:** with noise reduction module, see external control options.

# Local wired remote controls




	TYPE / DESCRIPTION	PRICE €	
	<p><b>RBC-AS41E</b> Simplified wired remote control</p> <ul style="list-style-type: none"> <li>To control all main functions of an indoor unit, or a group of up to 8 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>DN codes cannot be set</li> </ul>	150,-	
	<p><b>RBC-AMTU31-E</b> Standard Wired Remote Control</p> <ul style="list-style-type: none"> <li>To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>168 hour On/Off timer</li> <li>DN codes can be set</li> </ul>	150,-	
	<p><b>RBC-AMS41E</b> Wired remote control with integrated weekly timer</p> <ul style="list-style-type: none"> <li>To control all the functions of an indoor unit, or a group of up to 8 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>Weekly timer integrated, 8 events/day, 6 parameters/event can be programmed</li> <li>DN codes can be set</li> </ul>	160,-	
	<p><b>RBC-ASCU11-E</b> Compact wired remote control</p> <ul style="list-style-type: none"> <li>Slimline version of standard wired remote control</li> <li>To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>Off timer</li> <li>DN codes can be set</li> </ul>	110,-	
	<p><b>RBC-AMSU51-ES</b> Comfort wired remote control with backlit display</p> <ul style="list-style-type: none"> <li>To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>Weekly timer, soft keys, night operation, louver lock, key lock</li> <li>Energy monitoring in conjunction with Super Digital Inverter outdoor units</li> <li>DN codes can be set</li> </ul>	205,-	
	<p><b>RBC-AMSU52-E</b> Wired comfort remote control PLUS</p> <ul style="list-style-type: none"> <li>Design &amp; function update for the wired comfort remote control</li> <li>For controlling all the functions of an indoor unit or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>DN codes can be set</li> <li>Comfort control for server room functions</li> <li>Ventilation control screen for HRV heat exchangers</li> </ul>	205,-	
	<p><b>RBC-AWSU52-E</b> Wired comfort remote control PLUS BT</p> <ul style="list-style-type: none"> <li>Design &amp; function update for the wired comfort remote control</li> <li>With BLUETOOTH support for smartphones</li> <li>For controlling all the functions of an indoor unit or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>DN codes can be set</li> </ul>	225,-	 
	<p><b>RBC-MTSC1</b> Local touch lite remote control</p> <ul style="list-style-type: none"> <li>To control all the functions of an indoor unit, or a group of up to 8 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>Controlled via 4.5" color touch display</li> <li>Personalized graphics for screen &amp; logo via upload (480x272)</li> <li>DN codes can be set</li> <li>Not a stock item - lead time on request</li> </ul>	515,-	
	<p><b>TCB-TC41U-E</b> Remote Temperature Sensor</p> <ul style="list-style-type: none"> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>When exact temperature measurement is not possible using the sensor in the indoor unit or in the wired remote control.</li> <li>Takes priority over the unit and remote control sensor</li> </ul>	135,-	

LIGHT BUSINESS / RAV

# Local infrared remote controls






	TYPE / DESCRIPTION	PRICE €
	<p><b>RBC-AXU31-E</b> Infrared remote control with external receiver kit for all indoor units</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	460,-
	<p><b>RBC-AXU31C-E</b> Infrared remote control + receiver kit for installation in ceiling unit</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	355,-
	<p><b>RBC-AXU31UW-E</b> Infrared remote control + receiver kit for installation in 2-way cassette</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units.</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	375,-
	<p><b>RBC-AX33UYP-E</b> Infrared remote control + receiver kit for installation in 1-way cassette (SMMSu)</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	85,-
	<p><b>RBC-AXU31UM-E</b> Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	180,-
	<p><b>RBC-AXU41U-E</b> Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette</p>	315,-
	<p><b>RBC-AXU33UP-E</b> Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette</p>	230,-
	<p><b>RBC-AXU31U-E</b> Infrared remote control + receiver kit for installation in 4-way standard cassette</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	325,-

LIGHT BUSINESS / RAV

	TYPE / DESCRIPTION	PRICE €
	<p><b>TCB-SIR41UM-E</b> Occupancy sensor kit for installation in 60x60 slim cassette</p> <ul style="list-style-type: none"> <li>• Automatic motion detection in room</li> <li>• If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode</li> <li>• Requires RBC-AMSU51-ES wired remote control</li> <li>• Required for every cassette in the group in the case of group control</li> </ul>	<p><b>130,-</b></p>
	<p><b>TCB-SIR41U-E</b> Occupancy sensor kit for installation in smart cassette</p> <ul style="list-style-type: none"> <li>• Automatic motion detection in room</li> <li>• If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode</li> <li>• Requires RBC-AMSU51-ES wired remote control</li> <li>• Required for every cassette in the group in the case of group control</li> </ul>	<p><b>130,-</b></p>
	<p><b>TCB-SIR33UP-E</b> Occupancy sensor kit for installation in FLAT Panel</p>	<p><b>130,-</b></p>



# Mobile / APP / KNX® control options

	TYPE / DESCRIPTION	PRICE €
	<p><b>RBC-Combi Control</b> Module to control the main functions via SMS or an app (SIM card required)</p> <ul style="list-style-type: none"> <li>• To control the main functions such as on/off, operating mode, temperature and fan speed, plus alarms in the event of a power blackout or when temperature is too high/too low</li> <li>• Compatible with all indoor units that have a standard infrared remote control</li> <li>• Free app for iOS or Android</li> </ul>	<p><b>635,-</b></p>
	<p><b>AP-IR-WIFI-1</b> WiFi module to control all functions of an indoor unit using an app on a cell phone</p> <ul style="list-style-type: none"> <li>• Temperature and humidity alarm configurable</li> <li>• Compatible with all indoor units that have a standard infrared remote control</li> <li>• WLAN and internet access required</li> <li>• Free app for iOS or Android</li> <li>• Not a stock item - lead time on request</li> <li>• for cassette + duct unit only</li> </ul>	<p><b>380,-</b></p>
	<p><b>TO-RC-WIFI-1</b> WiFi module to control all functions of an indoor unit using an app or an internet browser</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• WLAN and internet access required</li> <li>• Free app for iOS or Android</li> </ul>	<p><b>610,-</b></p>
	<p><b>TO-RC-KNX-1i</b> Module for controlling all the functions of an indoor unit via the KNX® Bus.</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• KNX® bus system required</li> </ul>	<p><b>590,-</b></p>
	<p><b>BMS-IWF0320E</b> Small central APP 32</p> <ul style="list-style-type: none"> <li>• Controls up to 32 indoor units.</li> <li>• Connection via TCC link</li> <li>• Internet/intranet access required</li> <li>• Free app for iOS or Android</li> </ul>	<p><b>2.265,-</b></p>

While stocks last

LIGHT BUSINESS / RAW

# External control options

	TYPE / DESCRIPTION	PRICE €
	<p><b>TCB-IFCB5-PE</b> External on/off PCB, window contact module</p> <ul style="list-style-type: none"> <li>• Potential-free contact for on/off and window contact input.</li> <li>• Remote ON/OFF function</li> </ul> <p><b>TCB-PX100-PE</b> Casing for outdoor installation of window contact module for high-wall units</p> <p><b>TCB-PX30MUE</b> Casing for indoor installation for 4-way standard cassette</p> <p><b>TCB-PX40MUME</b> Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette</p>	<p>75,-</p> <p>50,-</p> <p>135,-</p> <p>135,-</p>
	<p><b>TCB-PCUC2E</b> Control board for external control, alarms and messages</p> <ul style="list-style-type: none"> <li>• Compatible with ceiling unit, high pressure duct unit series 4, 60x60 cassette, 4-way standard cassette, SMART cassette and VN-M heat exchanger</li> <li>• Connection to CN521</li> <li>• 3 analog inputs</li> <li>• 3 potential-free digital inputs/outputs</li> <li>• Input and output functions configurable via rotary switch</li> </ul> <p><b>TCB-PX30MUE</b> Casing for indoor installation for 4-way standard cassette</p> <p><b>TCB-PX40MUME</b> Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette</p>	<p>200,-</p> <p>135,-</p> <p>135,-</p>
	<p><b>TCB-IFCB-4E2</b> Operating, error signal, remote On/Off module</p> <ul style="list-style-type: none"> <li>• Operating and error signal output</li> <li>• Can be connected to the master unit of a group to handle the I/O control and error messages of up to 16 indoor units</li> <li>• For connecting to a CN61</li> <li>• Potential-free contact</li> </ul>	<p>475,-</p>
	<p><b>RBC-FDP3-PE</b> Analog Interface</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• Controls all main functions via 0-10V signals or fixed resistors</li> <li>• Operating and error signal output</li> <li>• Modbus connection possible</li> </ul>	<p>760,-</p>
	<p><b>RBC-FDP3-Modbus</b> Modbus Interface</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• Control of all main functions</li> <li>• Facilitates the addressing of up to 64 interfaces in an RS485 network to control multi-zone systems</li> <li>• Read out of all error codes possible</li> </ul>	<p>535,-</p>
	<p><b>TO-RC-BAC-2</b> BACnet® 1:1 interface</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• Control of all main functions</li> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Not a stock item - lead time on request</li> </ul>	<p>850,-</p>

# External control options

	TYPE / DESCRIPTION	PRICE €
	<p><b>TCB-PC0S1E2</b> Noise reduction module</p> <ul style="list-style-type: none"> <li>• Compatible with R32 outdoor units DI &amp; SDI, 1-phase, sizes 5 to 14</li> <li>• Compatible with R410A series 4 outdoor units SDI, size 5</li> <li>• Input for noise reduction (night operation)</li> <li>• Input for max. capacity control 0/50/75 %</li> <li>• Output for compressor operating signal</li> </ul>	330,-
	<p><b>TCB-KB0S4E</b> Noise Reduction Cable Set</p> <ul style="list-style-type: none"> <li>• Compatible with R32 outdoor units DI-BIG &amp; SDI, 3-phase, sizes 11 to 16</li> <li>• Compatible with R410A outdoor units DI-BID, series 4 &amp; 6</li> <li>• Compatible with R410A series 4 outdoor units SDI, sizes 8 to 16; 1-/3-phase</li> <li>• Input for noise reduction (night operation)</li> <li>• Input for max. capacity control 0/50/75 %</li> <li>• Output for compressor operating signal</li> </ul>	50,-
	<p><b>TCB-PCNT30TLE2</b> TCC link network adapter</p> <ul style="list-style-type: none"> <li>• For integrating RAV in VRF control systems</li> <li>• Supports the interfacing of network units such as central or BMS controllers to RAV systems</li> <li>• For indoor units</li> <li>• Already integrated in all high-wall units</li> </ul>	165,-
	<p><b>TCB-PX30MUE</b> Casing for indoor installation for 4-way standard cassette</p>	135,-
	<p><b>TCB-PX40MUME</b> Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette</p>	135,-
	<p><b>TCB-ACREDU2-E</b> Redundancy Box</p> <ul style="list-style-type: none"> <li>• Redundancy switchover unit for two indoor units (or groups) in the event of a fault</li> <li>• Operating hours-dependent switchover for two indoor units</li> <li>• Temperature-dependent activation of second system</li> <li>• Connection to CN61 of indoor units</li> <li>• Plug &amp; Play, temperature sensor included</li> <li>• LAN port, monitoring via web browser possible.</li> </ul>	2.050,-
	<p><b>TCB-KBCN32VEE</b> CN32 - DO: Control of an external fan</p>	6,-
	<p><b>TCB-KBCN600PE</b> CN60 - DO: Operating signal cooling, heating, fan, defrost, thermo On</p>	11,-
	<p><b>TCB-KBCN61HAE</b> CN61 - DI/DO HA terminal: On/Off, enable/block, operating performance, alarm</p>	11,-
	<p><b>TCB-KBCN700AE</b> CN70 - DI: external alarm input</p>	6,-
	<p><b>TCB-KBCN73DEE</b> CN73 - DI: external thermo Off input</p>	6,-
	<p><b>TCB-KBCN80EXE</b> CN80 - DI: external alarm input</p>	6,-





**TOSHIBA**

**SMMSu**  
SUPER MOUNTING SYSTEM

**Hasenbichler**

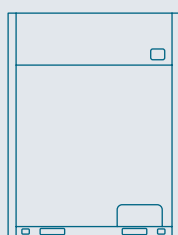
**TOSHIBA**

**SHRM**

**Hasenbichler**

# OVERVIEW OF VRF OUTDOOR UNITS

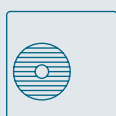
- › Integration of heating, cooling, hot water preparation & fresh air supply
- › Systems for heating or cooling, and for heating & cooling at the same time
- › Capacities up to 335 kW for cooling and heating
- › Up to 128 indoor units can be connected
- › External heat exchanger can be integrated
- › Convenient control options for all needs



## SMMSu

Cooling capacity: 22.4 | 28.0 | 33.5 | 40.0 | 45.0 |  
50.4 | 56.0 | 61.5 | 67.0

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## MiNi SMMS R32

Cooling capacity: 12.1 | 14.0 | 15.5

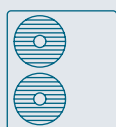
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## MiNi SMMS SINGLE FAN

Cooling capacity: 12.1 | 14.0

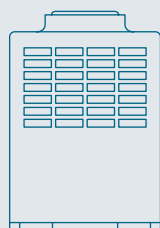
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## MiNi SMMSe

Cooling capacity: 12.1 | 14.0 | 15.5 | 22.4 | 28.0

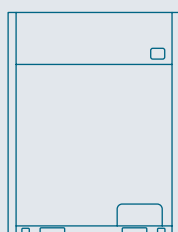
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## SHRMe

Cooling capacity: 22.4 | 28.0 | 33.5 | 40.0 |  
45.0 | 50.4 | 56.0

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## SHRMa

Cooling capacity: 22.4 | 28.0 | 33.5 |  
40.0 | 45.0 | 50.4 | 56.0 | 61.5 | 67.0

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# SMMSu outdoor units

- › Latest generation – universally combinable
- › With new defrost technology and high-speed system bus
- › Maximum efficiency, operational reliability, and service-friendliness
- › Leading-edge flexibility in terms of pipework & control options
- › 2-pipe outdoor units for up to 128 indoor units
- › SEER efficiency values up to 7.73 – SCOP efficiency values up to 4.79
- › Controls locally hard-wired or infrared, central and / or via BMS
- › World's first triple rotary compressor



**SMMSu**  
SUPER MODULAR MULTI SYSTEM



OUTDOOR UNIT		MMY-MUP0801HT8P-E	MMY-MUP1001HT8P-E	MMY-MUP1201HT8P-E	MMY-MUP1401HT8P-E
Capacity code	HP	8	10	12	14
Cooling capacity	kW ❄️	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW ❄️	5,64	8,36	10,34	14,55
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,44	7,73	7,32	7,05
Running current	A ❄️	9,15	13,4	16,0	22,6
Heating capacity	kW 🔥	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW 🔥	5,28	7,20	7,77	10,00
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,50	4,78	4,75	4,60
Running current	A 🔥	8,56	11,5	12,1	15,5
Airflow	m³/h	9900	10500	11700	11880
External static pressure	Pa	80	80	80	80
Sound pressure level (low/med/high)	dB(A) ❄️	53	55	58	58
Sound pressure level (low/med/high)	dB(A) 🔥	56	58	62	62
Sound power level	dB(A) ❄️	75	77	79	79
Sound power level	dB(A) 🔥	76	77	81	82
Compressor type		1x Twin-Rotary	1x Twin-Rotary	1x Twin-Rotary	1x Twin-Rotary
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	12,7 (½)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	19,1 (¾)	22,2 (7/8)	28,6 (1 1/8)	28,6 (1 1/8)
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Outdoor temperature operating range (min.-max.)	°C 🔥	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Recommended fusing	A	3x 20	3x 32	3x 32	3x 40
Pipe length (max.)	m	500	500	500	500
Height difference (max.)	m	110	110	110	110
Refrigerant		R410A	R410A	R410A	R410A
Refrigerant charge	kg	6,00	6,00	6,00	6,00
Dimensions (HxWxD)	mm	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780
Weight	kg	228	228	228	228
Price	€	<b>13.395,-</b>	<b>13.995,-</b>	<b>15.285,-</b>	<b>18.335,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUS1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 8 to 14 HP chassis	<b>330,-</b>



OUTDOOR UNIT		MMY-MUP1601HT8P-E	MMY-MUP1801HT8P-E	MMY-MUP2001HT8P-E	MMY-MUP2201HT8P-E	MMY-MUP2401HT8P-E1
Capacity code	HP	16	18	20	22	24
Cooling capacity	kW ❄️	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	kW ❄️	14,06	15,90	18,01	20,43	24,19
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-	-
Energy efficiency SEER	❄️	7,71	7,68	7,62	7,23	6,87
Running current	A ❄️	21,6	24,4	27,7	31,4	37,1
Heating capacity	kW 🔥	45,00	50,40	56,00	61,50	64,50
Power consumption (min./nom./max.)	kW 🔥	11,94	12,54	14,93	16,18	18,98
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-	-
Energy efficiency SCOP	❄️ 🔥	4,79	4,75	4,43	4,44	4,17
Running current	A 🔥	18,3	19,3	22,9	24,8	29,1
Airflow	m³/h	15300	16800	15900	16500	16500
External static pressure	Pa	80	80	80	80	80
Sound pressure level (low/med/high)	dB(A) ❄️	60	61	63	63	63
Sound pressure level (low/med/high)	dB(A) 🔥	63	67	67	67	67
Sound power level	dB(A) ❄️	83	84	86	86	86
Sound power level	dB(A) 🔥	86	89	90	90	90
Compressor type		1x Triple-Rotary	1x Triple-Rotary	1x Triple-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	34,9 (1 3/8)
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +52	-15 / +52	-15 / +52	-15 / +52	-15 / +52
Outdoor temperature operating range (min.-max.)	°C 🔥	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Recommended fusing	A	3x 40	3x 50	3x 50	3x 63	3x 80
Pipe length (max.)	m	500	500	500	500	500
Height difference (max.)	m	110	110	110	110	110
Refrigerant		R410A	R410A	R410A	R410A	R410A
Refrigerant charge	kg	9,00	9,00	9,00	9,00	9,00
Dimensions (HxWxD)	mm	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780
Weight	kg	312	312	334	356	356
Price	€	<b>19.660,-</b>	<b>21.190,-</b>	<b>22.715,-</b>	<b>24.220,-</b>	<b>26.285,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUM1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 16 to 24 HP chassis	370,-

# SMMSu combination tables



OUTDOOR UNIT		MMY-MUP0801HT8P-E	MMY-MUP1001HT8P-E	MMY-MUP1201HT8P-E	MMY-MUP1401HT8P-E
Capacity code	HP	8	10	12	14
Combined units		-	-	-	-
Cooling capacity	kW ❄️	22,40	28,00	33,50	40,00
Heating capacity	kW 🔥	22,40	28,00	33,50	40,00
Connectable indoor units (max.)	Pce.	18	22	27	31



OUTDOOR UNIT		MMY-MUP1601HT8P-E	MMY-MUP1801HT8P-E	MMY-MUP2001HT8P-E	MMY-MUP2201HT8P-E	MMY-MUP2401HT8P-E1
Capacity code	HP	16	18	20	22	24
Combined units		-	-	-	-	-
Cooling capacity	kW ❄️	45,00	50,40	56,00	61,50	67,00
Heating capacity	kW 🔥	45,00	50,40	56,00	61,50	64,50
Connectable indoor units (max.)	Pce.	36	40	45	49	54



OUTDOOR UNIT		MMY-UP2611HT8P-E	MMY-UP2811HT8P-E	MMY-UP3011HT8P-E	MMY-UP3211HT8P-E	MMY-UP3411HT8P-E	MMY-UP3611HT8P-E	MMY-UP3811HT8P-E
Capacity code	HP	26	28	30	32	34	36	38
Combined units		14 + 12	14 + 14	18 + 12	20 + 12	20 + 14	24 + 12	24 + 14
Cooling capacity	kW ❄️	73,50	80,00	83,90	89,50	96,00	100,50	107,00
Heating capacity	kW 🔥	73,50	80,00	83,90	89,50	96,00	100,50	107,00
Connectable indoor units (max.)	Pce.	58	63	64	65	66	67	68



OUTDOOR UNIT		MMY-UP4011HT8P-E	MMY-UP4211HT8P-E	MMY-UP4411HT8P-E	MMY-UP4611HT8P-E	MMY-UP4811HT8P-E	MMY-UP5011HT8P-E	MMY-UP5211HT8P-E
Capacity code	HP	40	42	44	46	48	50	52
Combined units		20 + 20	24 + 18	24 + 20	24 + 22	24 + 24	24 + 14 + 12	24 + 14 + 14
Cooling capacity	kW ❄️	112,00	117,40	123,00	128,50	134,00	140,50	147,00
Heating capacity	kW 🔥	112,00	117,40	123,00	128,50	134,00	140,50	147,00
Connectable indoor units (max.)	Pce.	69	70	71	72	73	74	75

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OUTDOOR UNIT		MMY-UP5411HT8P-E	MMY-UP5611HT8P-E	MMY-UP5811HT8P-E	MMY-UP6011HT8P-E	MMY-UP6211HT8P-E	MMY-UP6411HT8P-E
Capacity code	HP	54	56	58	60	62	64
Combined units		20 + 20 + 14	24 + 20 + 12	24 + 20 + 14	24 + 24 + 12	24 + 24 + 14	24 + 20 + 20
Cooling capacity	kW ❄️	152,00	156,50	163,00	167,50	174,00	179,00
Heating capacity	kW 🔥	152,00	156,50	163,00	167,50	174,00	179,00
Connectable indoor units (max.)	Pce.	76	77	78	79	80	81



OUTDOOR UNIT		MMY-UP6611HT8P-E	MMY-UP6811HT8P-E	MMY-UP7011HT8P-E	MMY-UP7211HT8P-E	MMY-UP7411HT8P-E	MMY-UP7611HT8P-E
Capacity code	HP	66	68	70	72	74	76
Combined units		24 + 22 + 20	24 + 24 + 20	24 + 24 + 22	24 + 24 + 24	24 + 24 + 14 + 12	24 + 24 + 14 + 14
Cooling capacity	kW ❄️	184,50	190,00	195,50	201,00	207,50	214,00
Heating capacity	kW 🔥	184,50	190,00	195,50	201,00	207,50	214,00
Connectable indoor units (max.)	Pce.	82	83	84	85	86	87



OUTDOOR UNIT		MMY-UP7811HT8P-E	MMY-UP8011HT8P-E	MMY-UP8211HT8P-E	MMY-UP8411HT8P-E	MMY-UP8611HT8P-E	MMY-UP8811HT8P-E
Capacity code	HP	78	80	82	84	86	88
Combined units		24 + 20 + 20 + 14	24 + 24 + 20 + 12	24 + 24 + 20 + 14	24 + 24 + 24 + 12	24 + 24 + 24 + 14	24 + 24 + 20 + 20
Cooling capacity	kW ❄️	219,00	223,50	230,00	234,50	241,00	246,00
Heating capacity	kW 🔥	219,00	223,50	230,00	234,50	241,00	246,00
Connectable indoor units (max.)	Pce.	88	90	92	94	96	98



OUTDOOR UNIT		MMY-UP9011HT8P-E	MMY-UP9211HT8P-E	MMY-UP9411HT8P-E	MMY-UP9611HT8P-E	MMY-UP9811HT8P-E	MMY-UP10011HT8P-E
Capacity code	HP	90	92	94	96	98	100
Combined units		24 + 24 + 22 + 20	24 + 24 + 24 + 20	24 + 24 + 24 + 22	24 + 24 + 24 + 24	24+24+24+14+12	24+24+24+14+14
Cooling capacity	kW ❄️	251,50	257,00	262,50	268,00	274,50	281,00
Heating capacity	kW 🔥	251,50	257,00	262,50	268,00	274,50	281,00
Connectable indoor units (max.)	Pce.	100	102	104	106	108	110

# SMMSu combination tables



OUTDOOR UNIT		MMY-UP10211HT8P-E	MMY-UP10411HT8P-E	MMY-UP10611HT8P-E	MMY-UP10811HT8P-E	MMY-UP11011HT8P-E
Capacity code	HP	102	104	106	108	110
Combined units		24 + 24 + 20 + 20 + 14	24 + 24 + 24 + 20 + 12	24 + 24 + 24 + 20 + 14	24 + 24 + 24 + 24 + 12	24 + 24 + 24 + 24 + 14
Cooling capacity	kW ❄️	286,00	290,50	297,00	301,50	308,00
Heating capacity	kW 🔥	286,00	290,50	297,00	301,50	308,00
Connectable indoor units (max.)	Pce.	112	114	116	118	120



OUTDOOR UNIT		MMY-UP11211HT8P-E	MMY-UP11411HT8P-E	MMY-UP11611HT8P-E	MMY-UP11811HT8P-E	MMY-UP12011HT8P-E
Capacity code	HP	112	114	116	118	120
Combined units		24 + 24 + 24 + 20 + 20	24 + 24 + 24 + 22 + 20	24 + 24 + 24 + 24 + 20	24 + 24 + 24 + 24 + 22	24 + 24 + 24 + 24 + 24
Cooling capacity	kW ❄️	313,00	318,50	324,00	329,50	335,00
Heating capacity	kW 🔥	313,00	318,50	324,00	329,50	335,00
Connectable indoor units (max.)	Pce.	122	124	126	128	128



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**SMMSu OUTDOOR UNIT COMBINATIONS**

OUTDOOR UNIT		MMY-UP2611HT8P-E	MMY-UP2811HT8P-E	MMY-UP3011HT8P-E	MMY-UP3211HT8P-E
Capacity code	HP	26	28	30	32
Combined units		14 + 12	14 + 14	18 + 12	20 + 12
Cooling capacity	kW ❄️	73,50	80,00	83,90	89,50
Power consumption (min./nom./max.)	kW ❄️	24,89	29,10	26,24	28,35
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,17	7,05	7,52	7,50
Heating capacity	kW ❄️	73,50	80,00	83,90	89,50
Power consumption (min./nom./max.)	kW ❄️	17,77	20,00	20,31	22,70
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SCOP	❄️	4,67	4,60	4,75	4,55
Airflow	m³/h	11800 + 11700	2 x 11800	15900 + 11880	16500 + 11700
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	61,5	64,2	63,0	64,5
Sound pressure level (low/med/high)	dB(A) ❄️	65,5	65,5	68,5	68,5
Sound power level	dB(A) ❄️	82,5	82,5	85,5	87,0
Sound power level	dB(A) ❄️	85	85	90,0	91,0
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	2 x 228	2 x 228	334 + 228	356 + 228
<b>Price</b>	<b>€</b>	<b>33.620,-</b>	<b>36.670,-</b>	<b>36.475,-</b>	<b>38.000,-</b>

OUTDOOR UNIT		MMY-UP3411HT8P-E	MMY-UP3611HT8P-E	MMY-UP3811HT8P-E	MMY-UP4011HT8P-E
Capacity code	HP	34	36	38	40
Combined units		20 + 14	24 + 12	24 + 14	20 + 20
Cooling capacity	kW ❄️	96,00	100,50	107,00	112,00
Power consumption (min./nom./max.)	kW ❄️	32,56	34,53	38,74	36,02
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,38	7,01	6,93	7,62
Heating capacity	kW ❄️	96,00	100,50	107,00	112,00
Power consumption (min./nom./max.)	kW ❄️	24,93	26,75	28,98	29,86
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SCOP	❄️	4,50	4,38	4,33	4,43
Airflow	m³/h	15900 + 11880	16500 + 11700	16500 + 11880	2 x 15900
Liquid pipe diameter	mm (inch)	19,1 (¾)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	64,5	64,5	64,5	66,5
Sound pressure level (low/med/high)	dB(A) ❄️	68,5	68,5	68,5	70,5
Sound power level	dB(A) ❄️	87,0	87,0	87,0	89,5
Sound power level	dB(A) ❄️	91,0	91,0	91,0	93,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	334 + 228	356 + 228	356 + 228	334 + 334
<b>Price</b>	<b>€</b>	<b>41.050,-</b>	<b>41.570,-</b>	<b>44.620,-</b>	<b>45.430,-</b>

## SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP4211HT8P-E	MMY-UP4411HT8P-E	MMY-UP4611HT8P-E	MMY-UP4811HT8P-E
Capacity code	HP	42	44	46	48
Combined units		24 + 18	24 + 20	24 + 22	24 + 24
Cooling capacity	kW ❄️	117,40	123,00	128,50	134,00
Power consumption (min./nom./max.)	kW ❄️	40,09	42,20	44,62	48,38
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,22	7,21	7,04	6,87
Heating capacity	kW 🔥	117,40	123,00	128,50	134,00
Power consumption (min./nom./max.)	kW 🔥	31,52	33,91	35,16	37,96
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,43	4,30	4,31	4,17
Airflow	m³/h	16500 + 16800	16500 + 15900	2 x 16500	2 x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	65.5	88.5	89.5	66.5
Sound pressure level (low/med/high)	dB(A) 🔥	70.5	70.5	70.5	70.5
Sound power level	dB(A) ❄️	88.5	88.5	88.5	89.5
Sound power level	dB(A) 🔥	93.0	93.0	93.0	93.5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	356 + 312	356 + 334	356 + 356	356 + 356
<b>Price</b>	<b>€</b>	<b>47.475,-</b>	<b>49.000,-</b>	<b>50.505,-</b>	<b>52.570,-</b>

OUTDOOR UNIT		MMY-UP5011HT8P-E	MMY-UP5211HT8P-E	MMY-UP5411HT8P-E	MMY-UP5611HT8P-E
Capacity code	HP	50	52	54	56
Combined units		24 + 14 + 12	24 + 14 + 14	20 + 20 + 14	24 + 20 + 12
Cooling capacity	kW ❄️	140,50	147,00	152,00	156,50
Power consumption (min./nom./max.)	kW ❄️	49,08	53,29	50,57	52,54
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,02	6,96	7,49	7,23
Heating capacity	kW 🔥	140,50	147,00	152,00	156,50
Power consumption (min./nom./max.)	kW 🔥	36,75	38,98	39,86	41,68
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,44	4,41	4,47	4,41
Airflow	m³/h	16500 + 11880 + 11700	16500 + 2x 11880	2x 15900 + 11880	16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	66.5	65.5	67.0	67.0
Sound pressure level (low/med/high)	dB(A) 🔥	70.5	69.5	71.0	71.0
Sound power level	dB(A) ❄️	89.5	87.5	89.5	89.5
Sound power level	dB(A) 🔥	93.5	91.5	93.5	93.5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	356 + 2x 228	356 + 2x 228	2x 334 + 228	356 + 334 + 228
<b>Price</b>	<b>€</b>	<b>59.905,-</b>	<b>62.955,-</b>	<b>63.765,-</b>	<b>64.285,-</b>

**SMMSu OUTDOOR UNIT COMBINATIONS**

OUTDOOR UNIT		MMY-UP5811HT8P-E	MMY-UP6011HT8P-E	MMY-UP6211HT8P-E	MMY-UP6411HT8P-E
Capacity code	HP	58	60	62	64
Combined units		24 + 20 + 14	24 + 24 + 12	24 + 24 + 14	24 + 20 + 20
Cooling capacity	kW ❄️	163,00	167,50	174,00	179,00
Power consumption (min./nom./max.)	kW ❄️	56,75	58,72	62,93	60,21
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,19	6,95	6,29	7,34
Heating capacity	kW 🔥	163,00	167,50	174,00	179,00
Power consumption (min./nom./max.)	kW 🔥	43,91	45,73	47,96	48,84
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,37	4,30	4,27	4,34
Airflow	m³/h	16500 + 15900 + 11700	2x 16500 + 11700	2x 16500 + 11880	16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	44,5 (1 3/4)	44,5 (1 3/4)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	67.0	67.0	67.0	67.0
Sound pressure level (low/med/high)	dB(A) 🔥	71.0	71.0	71.0	71.0
Sound power level	dB(A) ❄️	89.5	89.5	89.5	89.5
Sound power level	dB(A) 🔥	93.5	93.5	93.5	93.5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	356 + 334 + 228	2x 356 + 228	2x 356 + 228	356 + 2x 334
<b>Price</b>	<b>€</b>	<b>67.335,-</b>	<b>67.855,-</b>	<b>70.905,-</b>	<b>71.715,-</b>

OUTDOOR UNIT		MMY-UP6611HT8P-E	MMY-UP6811HT8P-E	MMY-UP7011HT8P-E	MMY-UP7211HT8P-E
Capacity code	HP	66	68	70	72
Combined units		24 + 22 + 20	24 + 24 + 20	24 + 24 + 22	24 + 24 + 24
Cooling capacity	kW ❄️	184,50	190,00	195,50	201,00
Power consumption (min./nom./max.)	kW ❄️	62,63	66,39	68,81	72,57
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,21	7,09	6,98	6,87
Heating capacity	kW 🔥	184,50	190,00	195,50	201,00
Power consumption (min./nom./max.)	kW 🔥	50,09	52,89	54,14	56,94
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,35	4,26	4,26	4,17
Airflow	m³/h	2x 16500 + 15900	2x 16500 + 15900	3x 165000	3x 165000
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	44,5 (1 3/4)	44,5 (1 3/4)	44,5 (1 3/4)	44,5 (1 3/4)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	68.0	68.0	68.0	68.0
Sound pressure level (low/med/high)	dB(A) 🔥	72.0	72.0	72.0	72.0
Sound power level	dB(A) ❄️	91.0	91.0	91.0	91.0
Sound power level	dB(A) 🔥	95.0	95.0	95.0	95.0
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	2x 356 + 334	2x 356 + 334	3x 356	3x 356
<b>Price</b>	<b>€</b>	<b>73.220,-</b>	<b>75.285,-</b>	<b>76.790,-</b>	<b>78.855,-</b>

## SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP7411HT8P-E	MMY-UP7611HT8P-E	MMY-UP7811HT8P-E	MMY-UP8011HT8P-E
Capacity code	HP	74	76	78	80
Combined units		24 + 24 + 14 + 12	24 + 24 + 14 + 14	24 + 20 + 20 + 14	24 + 24 + 20 + 12
Cooling capacity	kW ❄️	207,50	214,00	219,00	223,50
Power consumption (min./nom./max.)	kW ❄️	73,27	77,48	74,76	76,73
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	6,97	6,93	7,30	7,14
Heating capacity	kW ❄️	207,50	214,00	219,00	223,50
Power consumption (min./nom./max.)	kW ❄️	55,73	57,96	58,84	60,66
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SCOP	❄️	4,36	4,33	4,39	4,34
Airflow	m³/h	2x 16500 + 11880 + 11700	2x 16500 + 2x 11880	16500 + 2x15900 + 11880	2x 16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	44,5 (1 3/4)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	68,0	67,5	68,5	68,5
Sound pressure level (low/med/high)	dB(A) ❄️	72,0	71,5	72,5	72,5
Sound power level	dB(A) ❄️	91,0	90,0	91,5	91,5
Sound power level	dB(A) ❄️	95,0	94,0	95,0	95,0
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	2x 356 + 2x 228	2x 356 + 2x 228	356 + 2x 334 + 228	2x 356 + 334 + 228
<b>Price</b>	<b>€</b>	<b>86.190,-</b>	<b>89.240,-</b>	<b>90.050,-</b>	<b>90.570,-</b>

OUTDOOR UNIT		MMY-UP8211HT8P-E	MMY-UP8411HT8P-E	MMY-UP8611HT8P-E	MMY-UP8811HT8P-E
Capacity code	HP	82	84	86	88
Combined units		24 + 24 + 20 + 14	24 + 24 + 24 + 12	24 + 24 + 24 + 14	24 + 24 + 20 + 20
Cooling capacity	kW ❄️	230,00	234,50	241,00	246,00
Power consumption (min./nom./max.)	kW ❄️	80,94	82,91	87,12	84,40
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,10	6,95	6,91	7,21
Heating capacity	kW ❄️	230,00	234,50	241,00	246,00
Power consumption (min./nom./max.)	kW ❄️	62,89	64,71	66,94	67,82
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SCOP	❄️	4,32	4,26	4,25	4,30
Airflow	m³/h	2x 16500 + 15900 + 11880	3x 16500 + 11700	3x 16500 + 11880	2x 16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	68,5	68,5	68,5	68,5
Sound pressure level (low/med/high)	dB(A) ❄️	72,5	72,5	72,5	72,5
Sound power level	dB(A) ❄️	91,5	91,5	91,5	91,5
Sound power level	dB(A) ❄️	95,0	95,0	95,0	95,0
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	2x 356 + 334 + 228	3x 356 + 228	3x 356 + 228	2x 356 + 2x 334
<b>Price</b>	<b>€</b>	<b>93.620,-</b>	<b>94.140,-</b>	<b>97.190,-</b>	<b>98.000,-</b>

**SMMSu OUTDOOR UNIT COMBINATIONS**

OUTDOOR UNIT		MMY-UP9011HT8P-E	MMY-UP9211HT8P-E	MMY-UP9411HT8P-E	MMY-UP9611HT8P-E
Capacity code	HP	90	92	94	96
Combined units		24 + 24 + 22 + 20	24 + 24 + 24 + 20	24 + 24 + 24 + 22	24 + 24 + 24 + 24
Cooling capacity	kW ❄️	251,50	257,00	262,50	268,00
Power consumption (min./nom./max.)	kW ❄️	86,82	90,58	93,00	96,76
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,12	7,03	6,95	6,87
Heating capacity	kW 🔥	251,50	257,00	262,50	268,00
Power consumption (min./nom./max.)	kW 🔥	69,07	71,87	73,12	75,92
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,30	4,24	4,24	4,17
Airflow	m³/h	3x 16500 + 15900	3x 16500 + 15900	4x 16500	4x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	69,5	69,5	69,5	69,5
Sound pressure level (low/med/high)	dB(A) 🔥	73,5	73,5	73,5	73,5
Sound power level	dB(A) ❄️	92,5	92,5	92,5	92,5
Sound power level	dB(A) 🔥	96,5	96,5	96,5	96,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	3x 356 + 334	3x 356 + 334	4x 356	4x 356
<b>Price</b>	<b>€</b>	<b>99.505,-</b>	<b>101.570,-</b>	<b>103.075,-</b>	<b>105.140,-</b>

OUTDOOR UNIT		MMY-UP9811HT8P-E	MMY-UP10011HT8P-E	MMY-UP10211HT8P-E	MMY-UP10411HT8P-E
Capacity code	HP	98	100	102	104
Combined units		24+24+24+14+12	24+24+24+14+14	24 + 24 + 20 + 20 + 14	24 + 24 + 24 + 20 + 12
Cooling capacity	kW ❄️	274,50	281,00	286,00	290,50
Power consumption (min./nom./max.)	kW ❄️	97,46	101,67	98,98	100,92
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	6,95	6,94	7,20	7,08
Heating capacity	kW 🔥	274,50	281,00	286,00	290,50
Power consumption (min./nom./max.)	kW 🔥	74,71	76,94	77,82	79,64
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,31	4,30	4,34	4,30
Airflow	m³/h	3x 16500 + 11880 + 11700	3x 16500 + 2x 11880	2x 16500 + 2x 15900 + 11880	3x 16500 + 15900 + 11700
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	69,5	69,0	69,5	69,5
Sound pressure level (low/med/high)	dB(A) 🔥	73,5	73,0	73,0	73,0
Sound power level	dB(A) ❄️	92,5	91,5	91,5	91,5
Sound power level	dB(A) 🔥	96,5	95,5	95,5	95,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	3x 356 + 2x 228	3x 356 + 2x 228	2x 356 + 2x 334 + 228	3x 356 + 334 + 228
<b>Price</b>	<b>€</b>	<b>112.475,-</b>	<b>115.525,-</b>	<b>116.335,-</b>	<b>116.855,-</b>



## SMMSu OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-UP10611HT8P-E	MMY-UP10811HT8P-E	MMY-UP11011HT8P-E	MMY-UP11211HT8P-E
Capacity code	HP	106	108	110	112
Combined units		24 + 24 + 24 + 20 + 14	24 + 24 + 24 + 24 + 12	24 + 24 + 24 + 24 + 14	24 + 24 + 24 + 20 + 20
Cooling capacity	kW ❄️	297,00	301,50	308,00	313,00
Power consumption (min./nom./max.)	kW ❄️	105,13	107,10	111,31	108,59
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,04	6,93	6,90	7,13
Heating capacity	kW 🔥	297,00	301,50	308,00	313,00
Power consumption (min./nom./max.)	kW 🔥	81,87	83,69	85,92	86,80
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,29	4,24	4,23	4,28
Airflow	m³/h	3x 16500 + 15900 + 11880	4x 16500 + 11700	4x 16500 + 11880	3x 16500 + 2x 15900
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	69,5	69,5	69,5	69,5
Sound pressure level (low/med/high)	dB(A) 🔥	73,0	73,0	73,0	73,0
Sound power level	dB(A) ❄️	91,5	91,5	91,5	91,5
Sound power level	dB(A) 🔥	95,5	95,5	95,5	95,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	3x 356 + 334 + 228	4x 356 + 228	4x 356 + 228	3x 356 + 2x 334
<b>Price</b>	<b>€</b>	<b>119.905,-</b>	<b>120.425,-</b>	<b>123.475,-</b>	<b>124.285,-</b>

OUTDOOR UNIT		MMY-UP11411HT8P-E	MMY-UP11611HT8P-E	MMY-UP11811HT8P-E	MMY-UP12011HT8P-E
Capacity code	HP	114	116	118	120
Combined units		24 + 24 + 24 + 22 + 20	24 + 24 + 24 + 24 + 20	24 + 24 + 24 + 24 + 22	24 + 24 + 24 + 24 + 24
Cooling capacity	kW ❄️	318,50	324,00	329,50	335,00
Power consumption (min./nom./max.)	kW ❄️	111,01	114,77	117,19	120,95
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	7,07	7,00	6,93	6,87
Heating capacity	kW 🔥	318,50	324,00	329,50	335,00
Power consumption (min./nom./max.)	kW 🔥	88,05	90,85	92,10	94,90
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	🔥	4,28	4,22	4,23	4,17
Airflow	m³/h	4x 16500 + 15900	4x 16500 + 15900	5x 16500	5x 16500
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)	54,0 (2 1/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Sound pressure level (low/med/high)	dB(A) ❄️	70,0	70,0	70,0	70,0
Sound pressure level (low/med/high)	dB(A) 🔥	74,0	74,0	74,0	74,0
Sound power level	dB(A) ❄️	93,0	93,0	93,0	93,0
Sound power level	dB(A) 🔥	97,0	97,0	97,0	97,0
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	4x 356 + 334	4x 356 + 334	5x 356	5x 356
<b>Price</b>	<b>€</b>	<b>125.790,-</b>	<b>127.855,-</b>	<b>129.360,-</b>	<b>131.425,-</b>



# MiNi SMMS R32 outdoor units

- Ultra-compact outdoor unit for up to 13 indoor units
- Optimum protection of the environment: made in Europe with low GWP refrigerant
- Quiet: 3-stage night operation to reduce noise
- Comprehensive and simple safety concept
- SEER efficiency values up to 9.98 – SCOP efficiency values up to 5.21
- Controls locally hard-wired or infrared, central and / or via BMS



OUTDOOR UNIT		MCY-MUG0401HSW-E	MCY-MUG0501HSW-E	MCY-MUG0601HSW-E
Cooling capacity	kW ❄️	12,10	14,00	15,50
Power consumption (min./nom./max.)	kW ❄️	2,92	3,73	4,29
Energy efficiency EER	W/W ❄️	4,14	3,75	3,61
Energy efficiency SEER	❄️	9,98	9,21	8,80
Running current	A ❄️	13,1	16,3	18,6
Heating capacity	kW ❄️	12,10	14,00	15,50
Power consumption (min./nom./max.)	kW ❄️	2,38	2,95	3,36
Energy efficiency COP	W/W ❄️	5,08	4,75	4,61
Energy efficiency SCOP	❄️	5,21	4,93	4,80
Running current	A ❄️	10,9	13,2	14,8
Airflow	m³/h	4560	4740	4740
Outdoor temperature operating range (min.-max.)	°C ❄️	-5 / +46	-5 / +46	-5 / +46
Outdoor temperature operating range (min.-max.)	°C ❄️	-20 / +15	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Sound pressure level (low/med/high)	dB(A) ❄️	71	72	73
Sound pressure level (low/med/high)	dB(A) ❄️	54	55	56
Suction gas pipe diameter	mm (inch)	15,8 (5/8)	15,8 (5/8)	15,8 (5/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m	300	300	300
Height difference (max.)	m	40/50	40/50	40/50
Connectable indoor units (max.)	Pce.	8	10	13
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R32	R32	R32
Refrigerant charge	kg	2,40	2,40	2,40
Dimensions (HxWxD)	mm	1050 x 1010 x 370	1050 x 1010 x 370	1050 x 1010 x 370
Weight	kg	100	100	100
<b>Price</b>	<b>€</b>	<b>6.425,-</b>	<b>6.570,-</b>	<b>7.170,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>TCB-LD1UPE</b>	Leak detection sensor - SHRMa / MiNi SMMS R32	<b>430,-</b>
<b>TCB-BT1UPE</b>	Battery kit for shut-off valve and flow box - SHRMa / MiNi SMMS R32	<b>400,-</b>
<b>RBM-SV1121HUPE</b>	Shut-off valve kit - SHRMa / MiNi SMMS R32	<b>1.190,-</b>
<b>RBM-SV1801HUPE</b>	Absperrventil Kit - SHRMa / MiNi SMMS R32 4,0 bis ≤ 6,4 PS	<b>1.320,-</b>

# MiNi SMMS single fan outdoor units

- › Ultra-compact outdoor unit for up to 10 indoor units
- › SEER efficiency values up to 8.08 – SCOP efficiency values up to 5.36
- › Controls locally hard-wired or infrared, central and / or via BMS



OUTDOOR UNIT			MCY-MHP0406HT-E	MCY-MHP0506HT-E1
Cooling capacity	kW	❄️	12,10	14,00
Power consumption (min./nom./max.)	kW	❄️	3,24	3,94
Energy efficiency EER	W/W	❄️	3,73	3,23
Energy efficiency SEER		❄️	8,08	7,77
Running current	A	❄️	13,8	17,9
Heating capacity	kW	🔥	12,50	16,00
Power consumption (min./nom./max.)	kW	🔥	2,83	3,86
Energy efficiency COP	W/W	🔥	4,42	4,00
Energy efficiency SCOP		🔥	3,83	3,88
Running current	A	🔥	12,80	17,50
Airflow	m³/h		4020	4260
Outdoor temperature operating range (min. - max.)	°C	❄️	-5 / +46	-5 / +46
Outdoor temperature operating range (min. - max.)	°C	🔥	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz		220-240/1/50	220-240/1/50
Sound pressure level (low/med/high)	dB(A)	❄️	54	54
Sound pressure level (low/med/high)	dB(A)	🔥	57	58
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m		90	90
Height difference (max.)	m		15/15	15/15
Connectable indoor units (max.)	Pce.		8	10
Compressor type			1x Twin-Rotary	1x Twin-Rotary
Refrigerant			R410A	R410A
Refrigerant charge	kg		3,30	3,30
Dimensions (HxWxD)	mm		910 x 990 x 390	910 x 990 x 390
Weight	kg		100	100
<b>Price</b>	€		<b>5.500,-</b>	<b>5.600,-</b>

## MiNi SMMSe outdoor units

- Compact outdoor unit for up to 13 indoor units
- SEER efficiency values up to 9.68 – SCOP efficiency values up to 7.19
- Controls locally hard-wired or infrared, central and / or via BMS



### MiNi SMMSe – 1-phase

OUTDOOR UNIT		MCY-MHP0404HS-E	MCY-MHP0504HS-E	MCY-MHP0604HS-E
Cooling capacity	kW ❄️	12,10	14,00	15,50
Power consumption (min./nom./max.)	kW ❄️	2,83	3,50	4,29
Energy efficiency EER	W/W ❄️	4,28	4,00	3,61
Energy efficiency SEER	❄️	9,42	9,23	9,68
Running current	A ❄️	13,00	15,90	19,20
Heating capacity	kW ❄️	12,50	16,00	18,00
Power consumption (min./nom./max.)	kW ❄️	2,59	3,75	4,31
Energy efficiency COP	W/W ❄️	4,83	4,27	4,18
Energy efficiency SCOP	❄️	4,17	4,24	4,37
Running current	A ❄️	12,00	17,00	19,30
Airflow	m³/h	5660	5820	6050
Outdoor temperature operating range (min. - max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min. - max.)	°C ❄️	-20 / +15	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Sound pressure level (low/med/high)	dB(A) ❄️	49	50	51
Sound pressure level (low/med/high)	dB(A) ❄️	52	53	54
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	19,1 (¾)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m	180	180	180
Height difference (max.)	m	20/30	20/30	20/30
Connectable indoor units (max.)	Pce.	8	10	13
Compressor type		1x Twin-Rotary	1x Twin-Rotary	1x Twin-Rotary
Refrigerant		R410A	R410A	R410A
Refrigerant charge	kg	6,40	6,40	6,40
Dimensions (HxWxD)	mm	1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390
Weight	kg	127	127	127
<b>Price</b>	€	<b>6.095,-</b>	<b>6.230,-</b>	<b>6.800,-</b>



## Mini SMMSe – 3-phase

OUTDOOR UNIT		MCY-MHP0404HS8-E	MCY-MHP0504HS8-E	MCY-MHP0604HS8-E	MCY-MHP0806HS8-E	MCY-MHP1006HS8-E
Cooling capacity	kW ❄️	12,10	14,00	15,50	22,40	28,00
Power consumption (min./nom./max.)	kW ❄️	2,82	3,47	4,25	6,67	9,34
Energy efficiency EER	W/W ❄️	4,29	4,03	3,65	3,36	3,00
Energy efficiency SEER	❄️	-	-	-	8,09	7,40
Running current	A ❄️	4,50	5,40	6,70	10,6	14,5
Heating capacity	kW 🔥	12,50	16,00	18,00	22,40	28,00
Power consumption (min./nom./max.)	kW 🔥	2,57	3,72	4,27	5,20	7,00
Energy efficiency COP	W/W 🔥	4,86	4,40	4,22	4,31	4,00
Energy efficiency SCOP	🔥	4,19	4,25	4,38	4,50	4,38
Running current	A 🔥	4,20	5,80	6,60	8,2	10,9
Airflow	m³/h	5660	5820	6050	8460	8820
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min.-max.)	°C 🔥	-20 / +15,5	-20 / +15,5	-20 / +15,5	-20 / +15	-20 / +15
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Sound pressure level (low/med/high)	dB(A) ❄️	49	50	51	58	59
Sound pressure level (low/med/high)	dB(A) 🔥	52	53	54	59	60
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Pipe length (max.)	m	180	180	180	300	300
Height difference (max.)	m	20/30	20/30	20/30	30	30
Connectable indoor units (max.)	Pce.	8	10	13	12	16
Compressor type		1x Twin Rotary	1x Twin Rotary	1x Twin Rotary	Twin-Rotary	Twin-Rotary
Refrigerant		R410A	R410A	R410A	R410A	R410A
Refrigerant charge	kg	6,40	6,40	6,40	4,40	4,40
Dimensions (HxWxD)	mm	1235 x 990 x 390	1235 x 990 x 390	1235 x 990 x 390	1740 x 990 x 390	1740 x 990 x 390
Weight	kg	125	125	125	147	147
Price	€	<b>6.425,-</b>	<b>6.570,-</b>	<b>7.185,-</b>	<b>10.210,-</b>	<b>10.475,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBM-PMV0361U-E</b>	PMV kit for indoor units, sizes 5 to 14 (SMMSu)	<b>315,-</b>
<b>RBM-PMV0363E</b>	PMV kit for indoor units, sizes 5 to 14 (SMMSe)	<b>270,-</b>
<b>RBM-PMV0901U-E</b>	PMV kit for indoor units, sizes 15 to 27 (SMMSu)	<b>360,-</b>
<b>RBM-PMV0903E</b>	PMV kit for indoor units, sizes 15 to 27 (SMMSe)	<b>300,-</b>





**BUSINESS / VRF ODU**

*Winzerhaus am Wiesberg, Cool Company Kälte - Klima - Gastro*



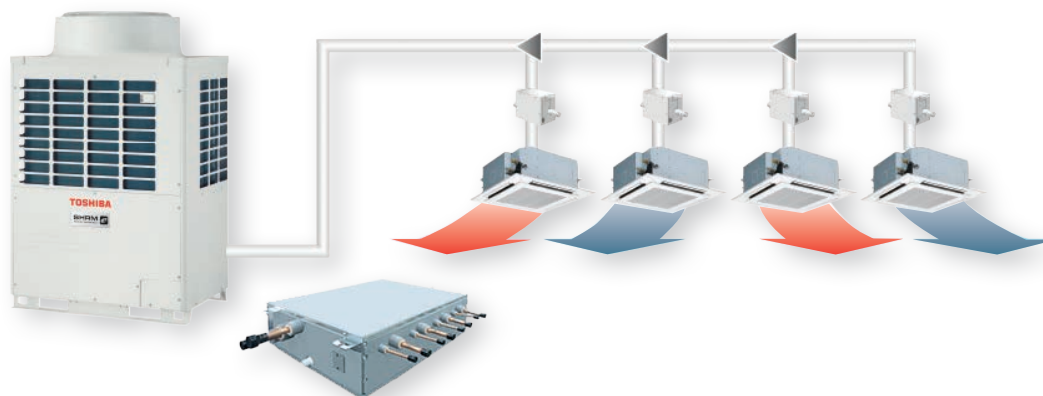
# SHRMe outdoor units

- 3-pipe heat recovery outdoor unit for up to 64 indoor units
- SEER efficiency values up to 6.07 – SCOP efficiency values up to 5.27
- Controls locally hard-wired or infrared, central and / or via BMS



OUTDOOR UNIT		MMY-MAP0806FT8P-E	MMY-MAP1006FT8P-E	MMY-MAP1206FT8P-E	MMY-MAP1406FT8P-E
Capacity code	HP	8	10	12	14
Cooling capacity	kW ❄️	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW ❄️	5,96	7,98	9,77	12,74
Partial load efficiency @ 80%/60%/40%	W/W ❄️	5,0 - 6,6 - 7,4	4,7 - 6,3 - 7,2	4,4 - 5,5 - 6,8	4,0 - 6,4 - 6,3
Energy efficiency SEER	❄️	6,07	6,03	5,94	5,61
Running current	A ❄️	9,44	12,49	15,46	19,92
Heating capacity	kW ❄️	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW ❄️	5,40	7,05	8,70	10,50
Partial load efficiency @ 80%/60%/40%	W/W ❄️	5,1 - 5,8 - 5,9	4,9 - 5,5 - 5,6	4,6 - 5,2 - 5,5	4,7 - 5,3 - 5,4
Energy efficiency SCOP	❄️	3,64	3,53	3,71	3,57
Running current	A ❄️	8,57	11,06	13,80	16,47
Airflow	m³/h	9700	9700	12200	12200
External static pressure	Pa	60	50	50	40
Sound pressure level (low/med/high)	dB(A) ❄️	59	59	60	62
Sound pressure level (low/med/high)	dB(A) ❄️	61	61	62	64
Sound power level	dB(A) ❄️	80,0	80,0	80,0	81,0
Sound power level	dB(A) ❄️	82,0	82,0	82,0	83,0
Compressor type		2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Outdoor temperature operating range (min. -max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min. -max.)	°C ❄️	-25 / +25	-25 / +25	-25 / +25	-25 / +25
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Recommended fusing	A	3x 20	3x 20	3x 25	3x 32
Pipe length (max.)	m	300	300	300	300
Height difference (max.)	m	90	90	90	90
Refrigerant		R410A	R410A	R410A	R410A
Refrigerant charge	kg	11,00	11,00	11,00	11,00
Dimensions (HxWxD)	mm	1830 x 990 x 780	1830 x 990 x 780	1830 x 1210 x 780	1830 x 1210 x 780
Weight	kg	263	263	316	316
Price	€	<b>14.455,-</b>	<b>15.845,-</b>	<b>21.505,-</b>	<b>22.635,-</b>

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## SHRMe outdoor units

OUTDOOR UNIT		MMY-MAP1606FT8P-E	MMY-MAP1806FT8P-E	MMY-MAP2006FT8P-E
Capacity code	HP	16	18	20
Cooling capacity	kW ❄️	45,00	50,40	56,00
Power consumption (min./nom./max.)	kW ❄️	13,93	16,00	18,60
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,2 - 5,5 - 7,0	4,3 - 6,0 - 7,3	3,7 - 4,6 - 5,7
Energy efficiency SEER	❄️	5,72	5,89	5,64
Running current	A ❄️	21,81	25,10	29,18
Heating capacity	kW 🔥	45,00	50,40	56,00
Power consumption (min./nom./max.)	kW 🔥	12,20	13,73	15,91
Partial load efficiency @ 80%/60%/40%	W/W 🔥	4,4 - 5,1 - 5,3	4,3 - 4,8 - 5,2	4,1 - 4,6 - 5,0
Energy efficiency SCOP	🔥	3,50	3,69	3,59
Running current	A 🔥	19,14	21,49	24,68
Airflow	m³/h	17300	17300	17900
External static pressure	Pa	40	40	40
Sound pressure level (low/med/high)	dB(A) ❄️	61	61	61
Sound pressure level (low/med/high)	dB(A) 🔥	62	62	62
Sound power level	dB(A) ❄️	83,0	83,0	83,0
Sound power level	dB(A) 🔥	84,0	84,0	84,0
Compressor type		2x Twin-Rotary	2x Twin-Rotary	2x Twin-Rotary
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	19,1 (¾)
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Outdoor temperature operating range (min. - max.)	°C ❄️	-15 / +46	-15 / +46	-15 / +46
Outdoor temperature operating range (min. - max.)	°C 🔥	-25 / +25	-25 / +25	-25 / +25
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Recommended fusing	A	3x 32	3x 40	3x 40
Pipe length (max.)	m	300	300	300
Height difference (max.)	m	90	90	90
Refrigerant		R410A	R410A	R410A
Refrigerant charge	kg	11,00	11,00	11,00
Dimensions (HxWxD)	mm	1830 x 1600 x 780	1830 x 1600 x 780	1830 x 1600 x 780
Weight	kg	377	377	377
<b>Price</b>	<b>€</b>	<b>24.590,-</b>	<b>26.400,-</b>	<b>27.660,-</b>

## Refrigerant flow boxes - single port - series 3 (standard functions)

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWxD) (MM)	WEIGHT (KG)	PRICE €
<b>RBM-Y1123FE</b>	1	1,7 - 11,2	5	190 × 250 × 160	5	<b>1.035,-</b>
<b>RBM-Y1803FE</b>	1	11,2 - 18,0	10	190 × 250 × 160	5	<b>1.065,-</b>
<b>RBM-Y2803FE</b>	1	18,0 - 28,0	10	200 × 377 × 200	8	<b>1.795,-</b>
<b>RBC-FSEX15</b>	Connection cable, 15 m (not a stock item)					<b>195,-</b>

## Refrigerant flow boxes - single port - series 4 with integrated subcooler

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWxD) (MM)	WEIGHT (KG)	PRICE €
<b>RBM-Y1124FE</b>	1	1,7 - 11,2	5	180 × 425 × 300	12	<b>1.785,-</b>
<b>RBM-Y1804FE</b>	1	11,2 - 18,0	10	180 × 425 × 300	12	<b>1.920,-</b>
<b>RBM-Y2804FE</b>	1	18,0 - 28,0	10	180 × 495 × 350	17	<b>3.160,-</b>

## Refrigerant flow boxes - multi-port - with integrated subcooler

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWxD) (MM)	WEIGHT (KG)	PRICE €
<b>RBM-Y1801F4PE</b>	4	1,7 - 18,0	10	215 × 730 × 567	38	<b>4.705,-</b>
<b>RBM-Y1801F6PE</b>	6	1,7 - 18,0	10	215 × 1050 × 567	53	<b>6.995,-</b>

# SHRMe combination tables



OUTDOOR UNIT		MMY- MAP0806FT8P-E	MMY- MAP1006FT8P-E	MMY- MAP1206FT8P-E	MMY- MAP1406FT8P-E	MMY- MAP1606FT8P-E	MMY- MAP1806FT8P-E	MMY- MAP2006FT8P-E
Capacity code	HP	8	10	12	14	16	18	20
Combined units		-	-	-	-	-	-	-
Cooling capacity	kW ❄️	22,40	28,00	33,50	40,00	45,00	50,40	56,00
Heating capacity	kW 🔥	22,40	28,00	33,50	40,00	45,00	50,40	56,00
Connectable indoor units (max.)	Pce.	18	22	27	31	36	40	41



OUTDOOR UNIT		MMY-AP2216FT8P-E	MMY-AP2416FT8P-E	MMY-AP2616FT8P-E	MMY-AP2816FT8P-E	MMY-AP3016FT8P-E	MMY-AP3216FT8P-E
Capacity code	HP	22	24	26	28	30	32
Combined units		12 + 10	14 + 10	14 + 12	14 + 14	16 + 14	18 + 14
Cooling capacity	kW ❄️	61,50	68,00	73,50	80,00	85,00	90,40
Heating capacity	kW 🔥	61,50	68,00	73,50	80,00	85,00	90,40
Connectable indoor units (max.)	Pce.	49	54	58	63	64	64



OUTDOOR UNIT		MMY-AP3416FT8P-E	MMY-AP3616FT8P-E	MMY-AP3816FT8P-E	MMY-AP4016FT8P-E	MMY-AP4216FT8P-E
Capacity code	HP	34	36	38	40	42
Combined units		18 + 16	18 + 18	20 + 18	20 + 20	14 + 14 + 14
Cooling capacity	kW ❄️	95,40	100,80	106,40	112,00	120,00
Heating capacity	kW 🔥	95,40	100,80	106,40	112,00	120,00
Connectable indoor units (max.)	Pce.	64	64	64	64	64



OUTDOOR UNIT		MMY-AP4416FT8P-E	MMY-AP4616FT8P-E	MMY-AP4816FT8P-E	MMY-AP5016FT8P-E	MMY-AP5216FT8P-E	MMY-AP5416FT8P-E
Capacity code	HP	44	46	48	50	52	54
Combined units		16 + 14 + 14	18 + 14 + 14	18 + 16 + 14	18 + 18 + 14	18 + 18 + 16	18 + 18 + 18
Cooling capacity	kW ❄️	125,00	130,40	135,40	140,80	145,80	151,20
Heating capacity	kW 🔥	125,00	130,40	135,40	140,80	145,80	151,20
Connectable indoor units (max.)	Pce.	64	64	64	64	64	64

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## SHRMe OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-AP2216FT8P-E	MMY-AP2416FT8P-E	MMY-AP2616FT8P-E
Capacity code	HP	22	24	26
Combined units		12 + 10	14 + 10	14 + 12
Cooling capacity	kW ❄️	61,50	68,00	73,50
Power consumption (min./nom./max.)	kW ❄️	17,71	20,66	22,45
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,4 - 5,7 - 7,5	4,2 - 5,3 - 7,0	4,2 - 5,3 - 6,5
Energy efficiency SEER	❄️	5,99	5,81	5,77
Heating capacity	kW ❄️	61,50	68,00	73,50
Power consumption (min./nom./max.)	kW ❄️	15,75	17,55	19,20
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,7 - 5,3 - 5,6	4,7 - 5,4 - 5,5	4,6 - 5,3 - 5,5
Energy efficiency SCOP	❄️	3,63	3,56	3,63
Airflow	m³/h	12200+9700	12200+9700	2x 12200
Liquid pipe diameter	mm (inch)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄️	63,0	64,0	64,5
Sound pressure level (low/med/high)	dB(A) ❄️	65,0	66,0	66,5
Sound power level	dB(A) ❄️	83,5	84,0	84,0
Sound power level	dB(A) ❄️	85,5	86,0	86,0
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	316+263	316+263	2x 316
<b>Price</b>	€	<b>37.350,-</b>	<b>38.480,-</b>	<b>44.140,-</b>

OUTDOOR UNIT		MMY-AP2816FT8P-E	MMY-AP3016FT8P-E	MMY-AP3216FT8P-E
Capacity code	HP	28	30	32
Combined units		14 + 14	16 + 14	18 + 14
Cooling capacity	kW ❄️	80,00	85,00	90,40
Power consumption (min./nom./max.)	kW ❄️	25,40	26,60	27,80
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,0 - 5,1 - 6,3	4,1 - 5,3 - 6,7	4,0 - 5,2 - 6,5
Energy efficiency SEER	❄️	5,61	5,67	5,77
Heating capacity	kW ❄️	80,00	85,00	90,40
Power consumption (min./nom./max.)	kW ❄️	21,00	22,70	24,40
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,7 - 5,3 - 5,4	4,5 - 5,2 - 5,4	4,4 - 5,0 - 5,3
Energy efficiency SCOP	❄️	3,57	3,54	3,58
Airflow	m³/h	2x 12200	17300+12200	17300+12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄️	66,5	65,0	65,0
Sound pressure level (low/med/high)	dB(A) ❄️	67,5	66,5	66,5
Sound power level	dB(A) ❄️	84,5	85,5	85,5
Sound power level	dB(A) ❄️	86,5	87,0	87,0
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	2x 316	377+316	377+316
<b>Price</b>	€	<b>45.270,-</b>	<b>47.225,-</b>	<b>49.035,-</b>



## SHRMe OUTDOOR UNIT COMBINATIONS

OUTDOOR UNIT		MMY-AP3416FT8P-E	MMY-AP3616FT8P-E	MMY-AP3816FT8P-E
Capacity code	HP	34	36	38
Combined units		18 + 16	18 + 18	20 + 18
Cooling capacity	kW ❄️	95,40	100,80	106,40
Power consumption (min./nom./max.)	kW ❄️	29,90	32,00	34,60
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,1 - 5,4 - 6,9	4,4 - 5,6 - 7,3	3,9 - 4,9 - 6,1
Energy efficiency SEER	❄️	5,81	5,89	5,76
Heating capacity	kW ❄️	95,40	100,80	106,40
Power consumption (min./nom./max.)	kW ❄️	25,90	27,40	29,60
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,3 - 4,9 - 5,2	4,3 - 4,8 - 5,2	4,2 - 4,7 - 5,1
Energy efficiency SCOP	❄️	3,55	3,59	3,59
Airflow	m³/h	2x 17300	2x 17300	17900 + 17300
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	34,9 (1 3/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	28,6 (1 1/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄️	64,5	64,5	64,5
Sound pressure level (low/med/high)	dB(A) ❄️	65,5	65,5	65,5
Sound power level	dB(A) ❄️	86,5	86,4	86,5
Sound power level	dB(A) ❄️	87,5	87,5	87,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	2x 377	2x 377	2x 377
<b>Price</b>	<b>€</b>	<b>50.990,-</b>	<b>52.800,-</b>	<b>54.060,-</b>

OUTDOOR UNIT		MMY-AP4016FT8P-E	MMY-AP4216FT8P-E	MMY-AP4416FT8P-E
Capacity code	HP	40	42	44
Combined units		20 + 20	14 + 14 + 14	16 + 14 + 14
Cooling capacity	kW ❄️	112,00	120,00	125,00
Power consumption (min./nom./max.)	kW ❄️	37,20	38,10	39,30
Partial load efficiency @ 80%/60%/40%	W/W ❄️	3,7 - 4,6 - 5,7	4,0 - 5,1 - 6,3	4,1 - 5,2 - 6,5
Energy efficiency SEER	❄️	5,64	5,61	5,65
Heating capacity	kW ❄️	112,00	120,00	125,00
Power consumption (min./nom./max.)	kW ❄️	31,80	31,50	33,20
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,1 - 4,6 - 5,0	4,7 - 5,3 - 5,4	4,6 - 5,2 - 5,4
Energy efficiency SCOP	❄️	3,59	3,57	3,55
Airflow	m³/h	2x 17900	3x 12200	17300 + 12200 + 12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄️	64,5	67,0	66,5
Sound pressure level (low/med/high)	dB(A) ❄️	65,5	69,0	68,5
Sound power level	dB(A) ❄️	86,5	86,0	87,0
Sound power level	dB(A) ❄️	87,5	88,0	88,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	2x 377	3x 316	377+316+316
<b>Price</b>	<b>€</b>	<b>55.320,-</b>	<b>67.905,-</b>	<b>69.860,-</b>

OUTDOOR UNIT		MMY-AP4616FT8P-E	MMY-AP4816FT8P-E	MMY-AP5016FT8P-E
Capacity code	HP	46	48	50
Combined units		18 + 14 + 14	18 + 16 + 14	18 + 18 + 14
Cooling capacity	kW ❄️	130,40	135,40	140,80
Power consumption (min./nom./max.)	kW ❄️	41,40	41,70	43,80
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,0 - 5,1 - 6,5	4,1 - 5,3 - 6,7	4,0 - 5,2 - 6,6
Energy efficiency SEER	❄️	5,72	5,77	5,83
Heating capacity	kW 🔥	130,40	135,40	140,80
Power consumption (min./nom./max.)	kW 🔥	34,70	36,60	38,10
Partial load efficiency @ 80%/60%/40%	W/W 🔥	4,5 - 5,1 - 5,3	4,4 - 5,0 - 5,3	4,4 - 4,9 - 5,2
Energy efficiency SCOP	🔥	3,58	3,56	3,59
Airflow	m³/h	17300 + 12200 + 12200	17300 + 17300 + 12200	17300 + 17300 + 12200
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄️	66,5	66,5	66,5
Sound pressure level (low/med/high)	dB(A) 🔥	68,5	68,0	68,0
Sound power level	dB(A) ❄️	87,0	87,5	87,5
Sound power level	dB(A) 🔥	88,5	88,5	88,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Weight	kg	377+316+316	377+377+316	377+377+316
<b>Price</b>	<b>€</b>	<b>71.670,-</b>	<b>73.625,-</b>	<b>75.435,-</b>

OUTDOOR UNIT		MMY-AP5216FT8P-E	MMY-AP5416FT8P-E
Capacity code	HP	52	54
Combined units		18 + 18 + 16	18 + 18 + 18
Cooling capacity	kW ❄️	145,80	151,20
Power consumption (min./nom./max.)	kW ❄️	45,90	48,00
Partial load efficiency @ 80%/60%/40%	W/W ❄️	4,1 - 5,4 - 6,8	4,4 - 5,7 - 7,2
Energy efficiency SEER	❄️	5,84	5,89
Heating capacity	kW 🔥	145,80	151,20
Power consumption (min./nom./max.)	kW 🔥	39,60	41,10
Partial load efficiency @ 80%/60%/40%	W/W 🔥	4,3 - 4,9 - 5,2	4,3 - 4,8 - 5,2
Energy efficiency SCOP	🔥	3,56	3,59
Airflow	m³/h	3x 17300	3x 17300
Liquid pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)
Suction gas pipe diameter	mm (inch)	41,3 (1 5/8)	41,3 (1 5/8)
Hot gas pipe diameter	mm (inch)	34,9 (1 3/8)	34,9 (1 3/8)
Oil equalization pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)
Sound pressure level (low/med/high)	dB(A) ❄️	66,0	66,0
Sound pressure level (low/med/high)	dB(A) 🔥	67,0	67,0
Sound power level	dB(A) ❄️	88,0	88,0
Sound power level	dB(A) 🔥	89,0	89,0
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50
Weight	kg	3x 377	3x 377
<b>Price</b>	<b>€</b>	<b>77.390,-</b>	<b>79.200,-</b>

# SHRM

SUPER HEAT RECOVERY MULTI  
ADVANCE

The new SHRM Advance is the leading solution for providing heating, cooling, and hot water for commercial applications with the low-GWP R32 refrigerant.

## ➤ Premium comfort

You can rely on the intelligent VRF control technology for precise management of the refrigerant flow.

## ➤ Super-efficient

Top COP figures for cooling and heating operation

## ➤ Top adaptability

Single modules can be configured for 3-pipe or 2-pipe operation

## ➤ Flexibility of installation

Fan unit with available static pressure up to 80 Pa

## ➤ Heat recovery

Energy transfer between cooled and heated zones

## ➤ Easy maintenance

Clever tools for accessing system data via PC or smartphone using NFC.



## TOSHIBA twin-rotary compressor with liquid injection technology

The system's key component – the high-efficiency TOSHIBA twin-rotary compressor – was developed to perfectly meet the R32 conditions.



High capacity



Broad operating range



Low refrigerant requirement



Low-noise and low-vibration



Diamond-like coating



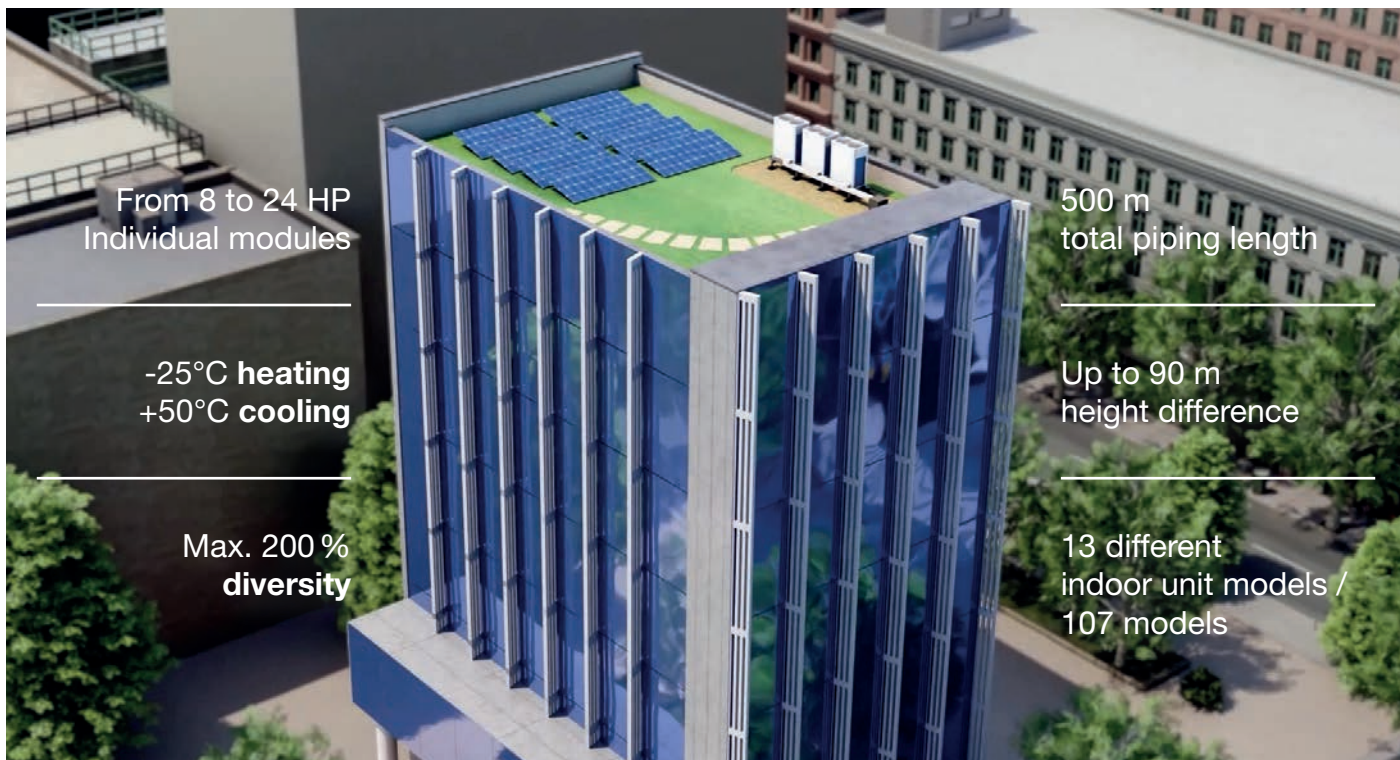
Liquid injection technology





## Wide range of applications

At TOSHIBA, products with a low carbon footprint go hand-in-hand with high specification standards. SHRM Advance means maximum project coverage due to outstanding system flexibility.



From 8 to 24 HP  
Individual modules

-25°C heating  
+50°C cooling

Max. 200 %  
diversity

500 m  
total piping length

Up to 90 m  
height difference

13 different  
indoor unit models /  
107 models

## Large selection of flow boxes

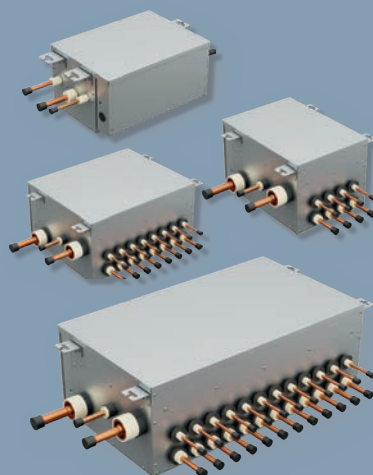
Flexible configuration and simple installation.

Flow boxes with  
1, 4, 8, or 12 ports

Up to  
**10 indoor units**  
per port

Up to  
**18 kW**  
per port

**PMV** technology



<300 mm height  
with multi-port boxes

Up to 50 m  
piping length

Integrated  
**Shut-off valves**



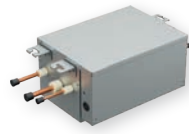
# TOSHIBA R32 concept



**TCB-LD1UPE**  
Refrigerant leak detector



**RBM-Y\_1FUxPE**  
PMV flow boxes with shut-off function for SHRMa 3-pipe operation



**RBM-SV\_1HUPE**  
PMV box with shut-off function for SHRMa 2-pipe operation



**TCB-BT1UPE**  
Battery kit to maintain the shut-off function in the event of a power blackout (as per IEC 603353-2-40)

➤ The TOSHIBA safety concept was certified by an independent certification body in accordance with the IEC60335-2-40 (Ed.6) standard.

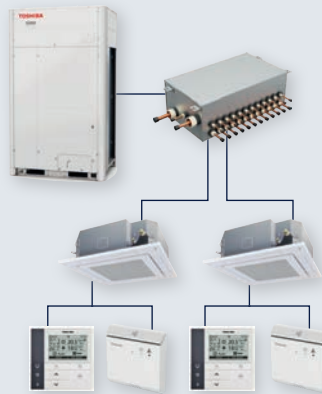
## Typical system configuration examples

### 3-pipe system for large rooms

- 12 lines possible with just one flow box

In the event of a leak:

- Audible & visual alarm on the leak detector concerned
- Error code on remote controls
- Pump-out function is activated



### 2-pipe system for small individual rooms

- Shut-off box for 1 to 10 units per line

In the event of a leak:

- Audible & visual alarm on the leak detector concerned
- Error code on remote controls
- Pump-down function is activated
- Selective isolation of the affected area



*Simple, individually applicable safety concept for each building configuration.*

## Flow boxes & accessories

Item number	Description	Ports	Max. indoor units
RBM-Y1121FUPE	Flow box Single-port	1	5
RBM-Y1801FUPE		1	10
RBM-Y2801FUPE		1	10
RBM-Y1801FU4PE	Flow box Multi-port	4	40
RBM-Y1801FU8PE		8	80
RBM-Y1801FU12PE		12	120

Item number	Description
TCB-LD1UPE	Leak detector <ul style="list-style-type: none"> <li>➤ Stand-alone</li> <li>➤ Power supply via the indoor unit</li> <li>➤ 10 year service life for sensor</li> </ul>
RBM-SV_HUPE	Shut-off box <ul style="list-style-type: none"> <li>➤ For isolating leaking indoor units from the main refrigerant circuit</li> <li>➤ Only required in 2-pipe operation since all flow boxes contain shut-off valves.</li> </ul>
TCB-BT1UPE	Battery <ul style="list-style-type: none"> <li>➤ Guarantees the shut-off function even in a power blackout</li> <li>➤ 5-year service life</li> <li>➤ For installation in the flow box or shut-off box</li> </ul>

**100% reliable planning** due to simple system design with the **SELECTION TOOL** software

## Controls

Wired remote control		Central remote control		Gateways	
	Standard remote control RBC-ASCU11-E		Comfort remote control RBC-AMSU51-ES		Central remote control TCB-SC640U-E
	Smart Manager TOUCH BMS-CT2560U-E		BACnet® gateway BMS-IFBN1280U-E		Modbus® gateway BMS-IFMB1280U-E



## Maximum efficiency

Maximum efficiency is a key component of the TOSHIBA corporate philosophy. SHRM Advance offers considerable energy savings, ensuring a lean carbon footprint. Integrated technology such as liquid injection, twin rotary compressor, large heat exchanger, and intelligent VRF control help to achieve unbeatable energy efficiency in seasonal operation.

<b>HEATING</b>	<b>SCOP</b>	Up to <b>4.6</b>
	<b>ηs H</b>	Up to <b>183 %</b>
<b>COOLING</b>	<b>SCOP</b>	Up to <b>8.9</b>
	<b>ηs C</b>	Up to <b>353 %</b>



The heat recovery that can be achieved in 3-pipe operation by using thermal energy from cooled zones in heated zones contributes to top class overall energy efficiency.



### Refrigerant flow boxes - single-port

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
<b>RBM-Y1121FUPE</b>	1	< 11,4	6	206 x 385 x 282	11	<b>1.990,-</b>
<b>RBM-Y1801FUPE</b>	1	11,4 - 18,2	10	206 x 385 x 282	11	<b>2.170,-</b>
<b>RBM-Y2801FUPE</b>	1	18,2 - 28,5	16	206 x 385 x 282	11	<b>3.550,-</b>

### Refrigerant flow boxes - multi-port

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
<b>RBM-Y1801FU4PE</b>	4	< 73,0	4 x 10	293 x 338 x 468	22	<b>4.990,-</b>
<b>RBM-Y1801FU8PE</b>	8	< 109,4	8 x 10	293 x 578 x 468	36	<b>7.390,-</b>
<b>RBM-Y1801FU12PE</b>	12	< 109,4	12 x 10	293 x 818 x 468	50	<b>11.200,-</b>

### Shut-off valve kit

ACCESSORIES	NUMBER OF PORTS (PCE.)	CONNECTABLE CAPACITY (KW)	MAX. CONNECTABLE INDOOR UNITS (PCE.)	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
<b>RBM-SV1121HUPE</b>	1	< 11,4	6	206 x 385 x 282	10	<b>1.190,-</b>
<b>RBM-SV1801HUPE</b>	1	11,4 - 18,2	10	206 x 385 x 282	10	<b>1.320,-</b>
<b>RBM-SV6701HUPE</b>	1	18,2 - 68,4/92,3	16	216 x 385 x 282	12	<b>2.380,-</b>
<b>TCB-BT1UPE</b>	Battery kit for shut-off valve and flow box - SHRMa / MINi SMMS R32					<b>400,-</b>
<b>TCB-LD1UPE</b>	Leak detection sensor - SHRMa / MINi SMMS R32					<b>430,-</b>

# SHRMa outdoor units



- › Stand-alone outdoor units up to 24 HP (67 kW)
- › Can be used for R32 refrigerant in 2-pipe or 3-pipe operation
- › Comprehensive and simple safety concept
- › SEER efficiency values up to 8.9 – SCOP efficiency values up to 4.6
- › Controls locally hard-wired or infrared, central and / or via BMS
- › Not a stock item – lead time on request
- › Available from Summer 2023

OUTDOOR UNIT		MMY-SUG0801MT8P-E	MMY-SUG1001MT8P-E	MMY-SUG1201MT8P-E	MMY-SUG1401MT8P-E
Capacity code	HP	8	10	12	14
Cooling capacity	kW ❄️	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW ❄️	5,13	6,83	8,88	12,00
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-
Energy efficiency SEER	❄️	8,90	8,69	8,23	8,08
Running current	A ❄️	9,14	11,50	14,20	18,90
Heating capacity	kW 🔥	22,40	28,00	33,50	40,00
Power consumption (min./nom./max.)	kW 🔥	4,96	6,22	7,64	10,30
Partial load efficiency @ 80%/60%/40%	W/W 🔥	-	-	-	-
Energy efficiency SCOP	❄️ 🔥	4,44	4,67	4,62	4,30
Running current	A 🔥	8,95	10,60	12,50	16,30
Airflow	m³/h	9900	10500	11700	11880
External static pressure	Pa	80	80	80	80
Sound pressure level (low/med/high)	dB(A) ❄️	53	55	58	58
Sound pressure level (low/med/high)	dB(A) 🔥	56	58	62	63
Sound power level	dB(A) ❄️	74	75	79	79
Sound power level	dB(A) 🔥	77	78	82	84
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Liquid pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)	19,1 (¾)	22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	15,9 (5/8)	19,1 (¾)	19,1 (¾)	22,2 (7/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-
Outdoor temperature operating range (min.-max.)	°C ❄️	-15 / +50	-15 / +50	-15 / +50	-15 / +50
Outdoor temperature operating range (min.-max.)	°C 🔥	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Recommended fusing	A	3x 20	3x 32	3x 32	3x 40
Pipe length (max.)	m	190	190	190	190
Height difference (max.)	m	40/90	40/90	40/90	40/90
Refrigerant		R32	R32	R32	R32
Refrigerant charge	kg	6,00	6,00	6,00	6,00
Dimensions (HxWxD)	mm	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780	1690 x 990 x 780
Weight	kg	232	232	232	232
<b>Price</b>	<b>€</b>	<b>16.000,-</b>	<b>17.900,-</b>	<b>25.000,-</b>	<b>25.500,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBM-FGUS1P-E</b>	Fin protection kit for SMMSu and SHRMa outdoor units - 8 to 14 HP chassis	<b>330,-</b>



SHRMa outdoor units

OUTDOOR UNIT		MMY-SUG1601MT8P-E	MMY-SUG1801MT8P-E	MMY-SUG2001MT8P-E	MMY-SUG2201MT8P-E	MMY-SUG2401MT8P-E
Capacity code	HP	16	18	20	22	24
Cooling capacity	kW ❄️	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	kW ❄️	12,20	14,80	15,50	18,20	24,30
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-	-
Energy efficiency SEER	❄️	8,64	8,32	8,29	7,88	6,66
Running current	A ❄️	21,10	24,80	25,40	29,20	38,10
Heating capacity	kW ❄️	45,00	50,40	56,00	61,50	67,00
Power consumption (min./nom./max.)	kW ❄️	11,10	14,00	14,30	16,10	19,50
Partial load efficiency @ 80%/60%/40%	W/W ❄️	-	-	-	-	-
Energy efficiency SCOP	❄️	4,65	4,49	4,29	4,26	4,04
Running current	A ❄️	19,90	23,80	23,60	26,10	30,90
Airflow	m³/h	15300	16800	15900	16500	16800
External static pressure	Pa	80	80	80	80	80
Sound pressure level (low/med/high)	dB(A) ❄️	60	61	63	64	64
Sound pressure level (low/med/high)	dB(A) ❄️	64	67	67	67	69
Sound power level	dB(A) ❄️	83	84	85	86	86
Sound power level	dB(A) ❄️	87	89	89	90	91
Compressor type		Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary	Twin-Rotary
Liquid pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)	28,6 (1 1/8)
Hot gas pipe diameter	mm (inch)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)	22,2 (7/8)
Oil equalization pipe diameter	mm (inch)	-	-	-	-	-
Outdoor temperature operating range (min. -max.)	°C ❄️	-15 / +50	-15 / +50	-15 / +50	-15 / +50	-15 / +50
Outdoor temperature operating range (min. -max.)	°C ❄️	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5	-25 / +15,5
Power supply	V/Ph+N/Hz	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50	380-415/3/50
Recommended fusing	A	3x 40	3x 50	3x 50	3x 63	3x 80
Pipe length (max.)	m	190	190	190	190	190
Height difference (max.)	m	40/90	40/90	40/90	40/90	40/90
Refrigerant		R32	R32	R32	R32	R32
Refrigerant charge	kg	9,00	9,00	9,00	9,00	9,00
Dimensions (HxWxD)	mm	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780	1690 x 1290 x 780
Weight	kg	329	329	361	361	361
Price	€	<b>27.900,-</b>	<b>29.500,-</b>	<b>31.800,-</b>	<b>33.800,-</b>	<b>36.300,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
RBM-FGUM1P-E	Fin protection kit for SMMSu and SHRMa outdoor units - 16 to 24 HP chassis	<b>370,-</b>

# Current Consumption + Fusing

TYPE	Running current (max.)	Running current (nom.)	Power consumption (min./nom./max.)	Power consumption (min./nom./max.)	Recommended fusing	Power supply	Recommended power supply line type	Communication line
	A	A	kW ❄️	kW ⚡️	A	V/Ph+N/Hz		
<b>SMMSu</b>								
MMY-MUP0801HT8P-E	17	9,20 / 8,60	5,64	5,28	3x 20	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1001HT8P-E	23	13,40 / 11,50	8,36	7,20	3x 32	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1201HT8P-E	27	16,00 / 12,10	10,34	7,77	3x 32	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1401HT8P-E	31	22,60 / 15,50	14,55	10,00	3x 40	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MUP1601HT8P-E	34	21,60 / 18,30	14,06	11,94	3x 40	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MUP1801HT8P-E	38	24,40 / 19,30	15,90	12,54	3x 50	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MUP2001HT8P-E	40	27,70 / 22,90	18,01	14,93	3x 50	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MUP2201HT8P-E	57	31,40 / 24,80	20,43	16,18	3x 63	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MUP2401HT8P-E1	60	37,10 / 29,10	24,19	18,98	3x 80	380-415/3/50	H07RN-F 5G10,0	YSLCY 2x1,5
<b>MiNi SMMS R32</b>								
MCY-MUG0401HSW-E	-	-	2,92	2,38	16	220-240/1/50	H07RN-F 3G4,0	YSLCY 2x1,5
MCY-MUG0501HSW-E	-	-	3,73	2,95	20	220-240/1/50	H07RN-F 3G4,0	YSLCY 2x1,5
MCY-MUG0601HSW-E	-	-	4,29	3,36	20	220-240/1/50	H07RN-F 3G4,0	YSLCY 2x1,5
<b>MiNi SMMS Single Fan</b>								
MCY-MHP0406HT-E	26,5	13,80 / 12,80	3,24	2,83	20	220-240/1/50	H07RN-F 3G2,5	YSLCY 2x1,5
MCY-MHP0506HT-E1	28,0	17,90 / 17,50	3,94	3,86	25	220-240/1/50	H07RN-F 3G4,0	YSLCY 2x1,5
<b>MiNi SMMSe 1-phase</b>								
MCY-MHP0404HS-E	23,5	13,00 / 12,00	2,83	2,59	20	220-240/1/50	H07RN-F 3G2,5	YSLCY 2x1,5
MCY-MHP0504HS-E	26,5	15,90 / 17,00	3,50	3,75	20	220-240/1/50	H07RN-F 3G2,5	YSLCY 2x1,5
MCY-MHP0604HS-E	28,0	19,20 / 19,30	4,29	4,31	25	220-240/1/50	H07RN-F 3G4,0	YSLCY 2x1,5
<b>MiNi SMMSe 3-phase</b>								
MCY-MHP0404HS8-E	12,5	4,50 / 4,20	2,82	2,57	3x 16	380-415/3/50	H07RN-F 5G1,5	YSLCY 2x1,5
MCY-MHP0504HS8-E	12,5	5,40 / 5,80	3,47	3,72	3x 16	380-415/3/50	H07RN-F 5G1,5	YSLCY 2x1,5
MCY-MHP0604HS8-E	12,5	6,70 / 6,60	4,25	4,27	3x 16	380-415/3/50	H07RN-F 5G1,5	YSLCY 2x1,5
MCY-MHP0806HS8-E	-	10,60 / 8,20	6,67	5,20	3x 20	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MCY-MHP1006HS8-E	-	14,50 / 10,90	9,34	7,00	3x 25	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
<b>SHRMe</b>								
MMY-MAP0806FT8P-E	21,5	9,44 / 8,57	5,96	5,40	3x 20	380-415/3/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-MAP1006FT8P-E	26,1	12,49 / 11,06	7,98	7,05	3x 20	380-415/3/50	H07RN-F 5G2,5	YSLCY 2x1,5
MMY-MAP1206FT8P-E	31,0	15,46 / 13,80	9,77	8,70	3x 25	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-MAP1406FT8P-E	35,8	19,92 / 16,47	12,74	10,50	3x 32	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP1606FT8P-E	40,7	21,81 / 19,14	13,93	12,20	3x 32	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP1806FT8P-E	44,9	25,10 / 21,49	16,00	13,73	3x 40	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-MAP2006FT8P-E	49,3	29,18 / 24,68	18,60	15,91	3x 40	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
<b>SHRMa</b>								
MMY-SUG0801MT8P-E	-	-	5,13	4,96	3x 20	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1001MT8P-E	-	-	6,83	6,22	3x 32	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1201MT8P-E	-	-	8,88	7,64	3x 32	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1401MT8P-E	-	-	12,00	10,30	3x 40	380-415/3/50	H07RN-F 5G4,0	YSLCY 2x1,5
MMY-SUG1601MT8P-E	-	-	12,20	11,10	3x 40	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-SUG1801MT8P-E	-	-	14,80	14,00	3x 50	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-SUG2001MT8P-E	-	-	15,50	14,30	3x 50	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-SUG2201MT8P-E	-	-	18,20	16,10	3x 63	380-415/3/50	H07RN-F 5G6,0	YSLCY 2x1,5
MMY-SUG2401MT8P-E	-	-	24,30	19,50	3x 80	380-415/3/50	H07RN-F 5G10,0	YSLCY 2x1,5

# Sound Power Level / Sound Pressure

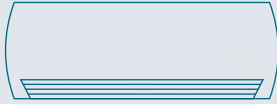
TYPE	Sound power level	Sound power level	Sound power level (night operation)	Sound pressure level (low/med/high)	Sound pressure level (low/med/high)	Sound pressure level (night operation)
	dB(A) ❄️	dB(A) ⚡	dB(A) ⚡	dB(A) ❄️	dB(A) ⚡	dB(A) ❄️
<b>SMMSu</b>						
MMY-MUP0801HT8P-E	75	76	-	53	56	50
MMY-MUP1001HT8P-E	77	77	-	55	58	50
MMY-MUP1201HT8P-E	79	81	-	58	62	50
MMY-MUP1401HT8P-E	79	82	-	58	62	53
MMY-MUP1601HT8P-E	83	86	-	60	63	53
MMY-MUP1801HT8P-E	84	89	-	61	67	54
MMY-MUP2001HT8P-E	86	90	-	63	67	54
MMY-MUP2201HT8P-E	86	90	-	63	67	54
MMY-MUP2401HT8P-E1	86	90	-	63	67	54
<b>MiNi SMMS R32</b>						
MCY-MUG0401HSW-E	69	52	-	71	54	-
MCY-MUG0501HSW-E	70	53	-	72	55	-
MCY-MUG0601HSW-E	71	54	-	73	56	-
<b>MiNi SMMS Single Fan</b>						
MCY-MHP0406HT-E	73,0	74,0	-	54	57	50 / 50
MCY-MHP0506HT-E1	73,0	73,0	-	54	58	50 / 50
<b>MiNi SMMSe 1-phase</b>						
MCY-MHP0404HS-E	66	69	62 / 65	49	52	46 / 48
MCY-MHP0504HS-E	68	70	62 / 65	50	53	46 / 48
MCY-MHP0604HS-E	68	71	65 / 65	51	54	47 / 49
<b>MiNi SMMSe 3-phase</b>						
MCY-MHP0404HS8-E	66,0	67,0	62 / 65	49	52	46 / 48
MCY-MHP0504HS8-E	68,0	69,0	62 / 65	50	53	46 / 48
MCY-MHP0604HS8-E	68,0	70,0	65 / 65	51	54	47 / 49
MCY-MHP0806HS8-E	75	75	67 / 67	58	59	50 / 50
MCY-MHP1006HS8-E	77	77	67 / 67	59	60	50 / 50
<b>SHRMe</b>						
MMY-MAP0806FT8P-E	80,0	82,0	-	59	61	50 / 50
MMY-MAP1006FT8P-E	80,0	82,0	-	59	61	50 / 50
MMY-MAP1206FT8P-E	80,0	82,0	-	60	62	53 / 53
MMY-MAP1406FT8P-E	81,0	83,0	-	62	64	53 / 53
MMY-MAP1606FT8P-E	83,0	84,0	-	61	62	54 / 54
MMY-MAP1806FT8P-E	83,0	84,0	-	61	62	54 / 54
MMY-MAP2006FT8P-E	83,0	84,0	-	61	62	54 / 54
<b>SHRMa</b>						
MMY-SUG0801MT8P-E	74	77	-	53	56	-
MMY-SUG1001MT8P-E	75	78	-	55	58	-
MMY-SUG1201MT8P-E	79	82	-	58	62	-
MMY-SUG1401MT8P-E	79	84	-	58	63	-
MMY-SUG1601MT8P-E	83	87	-	60	64	-
MMY-SUG1801MT8P-E	84	89	-	61	67	-
MMY-SUG2001MT8P-E	85	89	-	63	67	-
MMY-SUG2201MT8P-E	86	90	-	64	67	-
MMY-SUG2401MT8P-E	86	91	-	64	69	-

Sound pressure night operation: with noise reduction module, see external control options.



# OVERVIEW OF VRF INDOOR UNITS

## HIGH-WALL UNITS



### HAORI HIGH-WALL UNIT

Cooling capacity: 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6  
All current VRF outdoor units



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### HIGH-WALL UNIT

Cooling capacity: 0.9 | 1.7 | 2.2 | 2.8 | 3.6 | 4.5 |  
5.6 | 7.1 | 8.0 | 9.0 | 10.0  
All current VRF outdoor units

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## CEILING UNITS

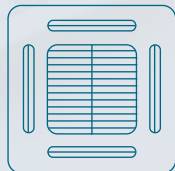


### CEILING UNIT

Cooling capacity: 4.5 | 5.6 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0  
All current VRF outdoor units

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## CASSETTE UNITS



### 60x60 SLIM CASSETTE

Cooling capacity: 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6  
All current VRF outdoor units

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### 4-WAY STANDARD CASSETTE

Cooling capacity: 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |  
9.0 | 11.2 | 14.0 | 16.0  
All current VRF outdoor units

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### 4-WAY SMART CASSETTE

Cooling capacity: 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |  
9.0 | 11.2 | 14.0 | 16.0  
All SMMSu outdoor units

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### 2-WAY CASSETTE

Cooling capacity: 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 8.0 |  
9.0 | 11.2 | 14.0 | 16.0  
All current VRF outdoor units

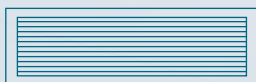
Page 172

### 1-WAY FLAT CASSETTE

Cooling capacity: 0.9 | 1.7 | 2.2 | 2.8 | 3.6  
All current VRF outdoor units

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## DUCT UNITS



### STANDARD DUCT UNIT

Cooling capacity: 1.7 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 |  
7.1 | 8.0 | 9.0 | 11.2 | 14.0 | 16.0  
All current VRF outdoor units

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### SSD SUPER-SLIM DUCT UNIT

Cooling capacity: 0.9 | 1.7 | 2.2 | 2.8 | 3.6 |  
4.5 | 5.6 | 7.1 | 8.0  
All current VRF outdoor units

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**HIGH-PRESSURE DUCT UNIT**

Cooling capacity: 5.6 | 7.1 | 8.0 | 11.2 | 14.0 |  
16.0 | 22.4 | 28.0  
All current VRF outdoor units

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**FRESH-AIR DUCT UNIT SMMS<sub>e</sub>**

Cooling capacity: 14.0 | 22.4 | 28.0  
For SMMS<sub>Su</sub> and SMMS<sub>e</sub> systems  
(excluding sizes 112 & 128 – exclusively for SMMS<sub>Su</sub>)

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**FRESH-AIR DUCT UNIT SMMS<sub>Su</sub>**

Cooling capacity: 14.0 | 22.4 | 28.0  
For SMMS<sub>Su</sub> and SMMS<sub>e</sub> systems  
(excluding sizes 112 & 128 – exclusively for SMMS<sub>Su</sub>)

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**FLOOR STANDING UNITS**



**CONSOLE**

Cooling capacity: 2.2 | 2.8 | 3.6 | 4.5 | 5.6  
All current VRF outdoor units

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**CHASSIS**

Cooling capacity: 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1  
All current VRF outdoor units

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**FLOOR STANDING UNIT**

Cooling capacity: 4.5 | 5.6 | 7.1 | 8.0 | 11.2 | 14.0 | 16.0  
All current VRF outdoor units

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**SPECIAL SOLUTIONS**

**DIRECT EXPANSION KIT TEMPERATURE-CONTROLLED EXHAUST AIR**

Cooling capacity: 4.5 – 28.0  
For all SMMS<sub>Su</sub> Standard models

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**DX-KIT 0 – 10 V CAPACITY CONTROL**

Cooling capacity: 16.0 | 22.4 | 28.0  
For SMMS<sub>Su</sub> Standard 8 HP + 10 HP

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**DIRECT EXPANSION KIT NEXT**

Cooling capacity: up to 56.0  
For all SMMS<sub>Su</sub> Standard models

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**AIR HANDLING SYSTEMS WITH HEAT RECOVERY**

Heating capacity: 4.1 | 6.5 | 8.2  
For MiNi SMMS<sub>e</sub>, SMMS<sub>Su</sub> Standard, SHRMe

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**HOT WATER MODULE MT (2 & 3-PIPE)**

Cooling capacity: 8.0 | 16.0  
For SMMS<sub>Su</sub>, SHRMe

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**HOT WATER MODULE HT (3-PIPE)**

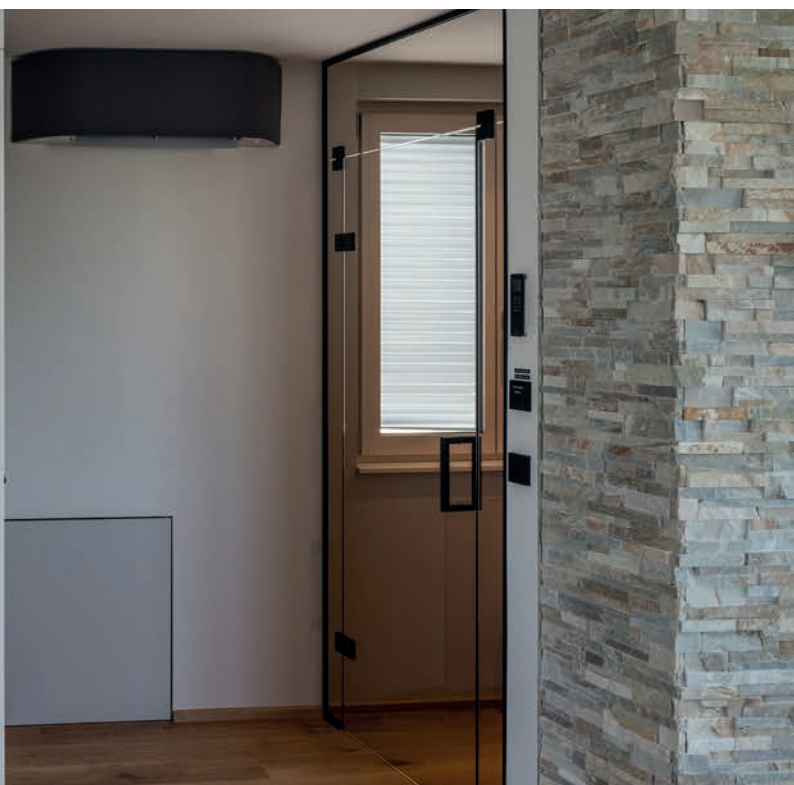
Cooling capacity: 14.0  
For SHRMe

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# HAORI

For VRF applications  
Available from Summer 2023

Coming  
soon







*Hotel KOWALD Loipersdorf,  
PAMMER GesmbH*

# HAORI high-wall unit

- › DESIGN Line with innovative textile cover
- › Dust filter, ozone air purifier, and ultra pure filter
- › Perfect for noise-sensitive applications
- › Must ALWAYS be installed in conjunction with the PMV kit.



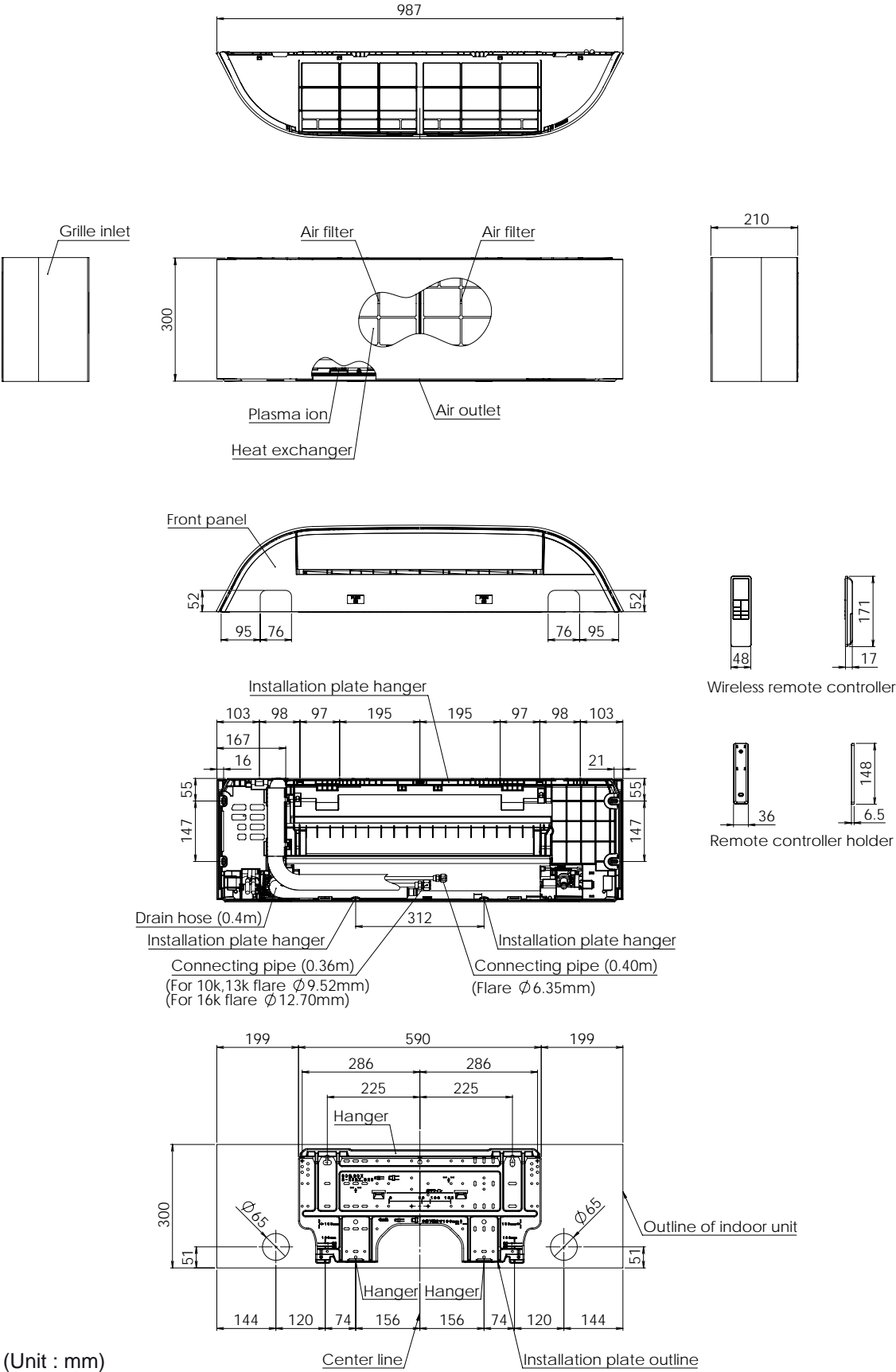
INDOOR UNIT		MMK-UP0071DHPL-E	MMK-UP0091DHPL-E	MMK-UP0121DHPL-E	MMK-UP0151DHPL-E	MMK-UP0181DHPL-E
Cooling capacity	kW ❄️	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW ❄️	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	300/385/ 480	300/395/ 510	300/410/ 540	380/480/ 580	420/600/ 730
Sound pressure level (low/med/high)	dB(A) ❄️	25/28/ 30/33/ 35	25/28/ 31/34/ 36	25/28/ 32/35/ 37	30/33/ 35/38/ 40	32/36/ 39/42/ 45
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP16	VP16	VP16	VP16	VP16
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,018	0,019	0,021	0,025	0,032
Dimensions (HxWxD)	mm	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210	300 x 987 x 210
Weight	kg	11	11	11	11	11
Price	€	1.140,-	1.160,-	1.180,-	1.330,-	1.360,-

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
RB-RXS34-E	HAORI design infrared remote control, black, with magnetic holder	✓	
RBM-PMV0361UP-E	PMV kit for indoor units, up to size 12		280,-
RBM-PMV0901UP-E	PMV kit for indoor units, size 15 or larger		300,-
RB-I4101-E	Fabric cover Dark Gray enclosed		100,-
RB-I4102-E	Fabric cover Light Gray enclosed		100,-
RB-I4103-E	Fabric cover Bluish Gray		130,-
RB-I4104-E	Fabric cover Gray Beige		130,-
RB-I4105-E	Fabric cover Dark Brown		130,-
RB-I4106-E	Fabric cover Emerald Blue		130,-
818F0023	Active carbon-catechin filter strips		31,-
818F0036	IAQ filter strips		49,-
818F0050	Ultra-pure 2.5 filter strips	✓	
818F0072	Ultra-Fresh filter strips		36,-

You will find all the control options from page 207.  
Available from Summer 2023.



HAORI HIGH-WALL UNIT



# High-wall unit

- › Compact allrounder for all uses
- › Whisper-quiet 5-speed fan – up to 25 dB(A)



INDOOR UNIT		MMK-UP0031HP-E	MMK-UP0051HP-E	MMK-UP0071HP-E	MMK-UP0091HP-E	MMK-UP0121HP-E	MMK-UP0151HP-E
Cooling capacity	kW ❄️	0,90	1,70	2,20	2,80	3,60	4,50
Heating capacity	kW 🔥	1,30	1,90	2,50	3,20	4,00	5,00
Airflow	m³/h	270/370/ 455	270/370/ 455	270/385/ 480	270/395/ 510	270/410/ 540	550/690/ 840
Sound pressure level (low/med/high)	dB(A) ❄️	25/29/33	25/29/33	25/30/35	25/31/36	25/32/37	32/36/40
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)
Condensate pipe diameter	mm	16	16	16	16	16	16
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,013	0,013	0,015	0,016	0,017	0,028
Dimensions (HxWxD)	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	320 x 1050 x 250
Weight	kg	11	11,0	11,0	11,0	11,0	16,0
<b>Price</b>	<b>€</b>	<b>1.030,-</b>	<b>1.060,-</b>	<b>1.085,-</b>	<b>1.095,-</b>	<b>1.105,-</b>	<b>1.225,-</b>

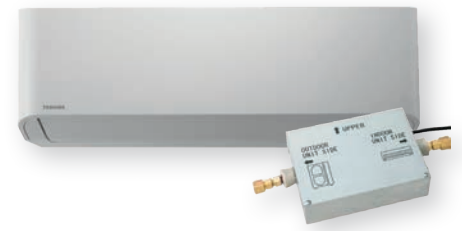
INDOOR UNIT		MMK-UP0181HP-E	MMK-UP0241HP-E	MMK-UP0271HP-E	MMK-UP0301HP-E	MMK-UP0361HP-E
Cooling capacity	kW ❄️	5,60	7,10	8,00	9,00	10,00
Heating capacity	kW 🔥	6,30	8,00	9,00	10,00	11,20
Airflow	m³/h	550/720/ 900	600/900/ 1200	800/1000/ 1200	1100/1300/ 1500	1250/1350/ 1650
Sound pressure level (low/med/high)	dB(A) ❄️	32/37/41	33/39/45	39/41/45	41/44/48	43/45/50
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,8 (5/8)	15,8 (5/8)	15,8 (5/8)
Condensate pipe diameter	mm	16	16	16	16	16
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,032	0,050	0,034	0,054	0,066
Dimensions (HxWxD)	mm	320 x 1050 x 250	320 x 1050 x 250	350 x 1200 x 280	350 x 1200 x 280	350 x 1200 x 280
Weight	kg	16,0	16,0	21	21	21
<b>Price</b>	<b>€</b>	<b>1.255,-</b>	<b>1.270,-</b>	<b>1.505,-</b>	<b>1.575,-</b>	<b>1.660,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>818F0036</b>	IAQ filter strips		<b>49,-</b>
<b>818F0023</b>	Active carbon-catechin filter strips		<b>31,-</b>
<b>818F0072</b>	Ultra-Fresh filter strips		<b>36,-</b>

You will find all the control options from page 207.



# High-wall unit with external PMV kit



- › Series E1 without integrated injection valve
- › Especially for noise-sensitive applications
- › Must ALWAYS be installed in conjunction with the PMV kit.
- › Not a stock item – lead time on request

INDOOR UNIT SMMSu		MMK-UP0031HPL-E	MMK-UP0051HPL-E	MMK-UP0071HPL-E	MMK-UP0091HPL-E
Cooling capacity	kW ❄️	0,90	1,70	2,20	2,80
Heating capacity	kW 🔥	1,30	1,90	2,50	3,20
Airflow	m³/h	270/370/455	270/370/455	270/385/480	270/395/510
Sound pressure level (low/med/high)	dB(A) ❄️	25/29/33	25/29/33	25/30/35	25/31/36
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	16	16	16	16
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,013	0,013	0,015	0,016
Dimensions (HxWxD)	mm	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230	293 x 798 x 230
Weight	kg	11	11,0	11,0	11,0
<b>Price</b>	<b>€</b>	<b>895,-</b>	<b>930,-</b>	<b>955,-</b>	<b>970,-</b>

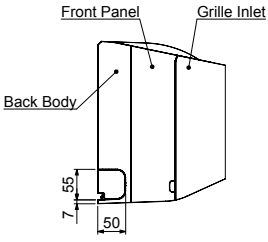
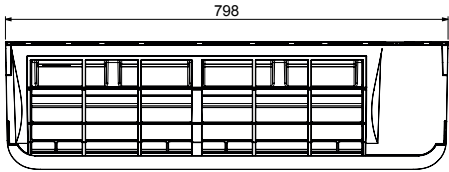
INDOOR UNIT SMMSu		MMK-UP0121HPL-E	MMK-UP0151HPL-E	MMK-UP0181HPL-E	MMK-UP0241HPL-E
Cooling capacity	kW ❄️	3,60	4,50	5,60	7,10
Heating capacity	kW 🔥	4,00	5,00	6,30	8,00
Airflow	m³/h	270/410/540	550/690/840	550/720/900	600/900/1200
Sound pressure level (low/med/high)	dB(A) ❄️	25/32/37	32/36/40	32/37/41	33/39/45
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	16	16	16	16
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,017	0,028	0,032	0,050
Dimensions (HxWxD)	mm	293 x 798 x 230	320 x 1050 x 250	320 x 1050 x 250	320 x 1050 x 250
Weight	kg	11,0	16,0	16,0	16,0
<b>Price</b>	<b>€</b>	<b>980,-</b>	<b>1.095,-</b>	<b>1.115,-</b>	<b>1.140,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
<b>Remote control</b>	Infrared remote control included	✓	
<b>RBM-PMV0361U-E</b>	PMV kit for indoor units, sizes 5 to 14 (SMMSu)		<b>315,-</b>
<b>RBM-PMV0901U-E</b>	PMV kit for indoor units, sizes 15 to 27 (SMMSu)		<b>360,-</b>
<b>818F0036</b>	IAQ filter strips		<b>49,-</b>
<b>818F0023</b>	Active carbon-catechin filter strips		<b>31,-</b>
<b>818F0072</b>	Ultra-Fresh filter strips		<b>36,-</b>

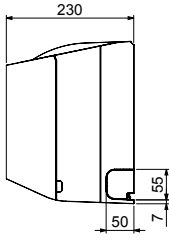
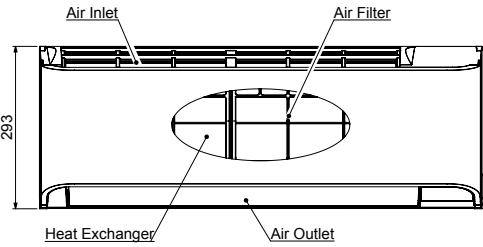
You will find all the control options from page 207.

HIGH-WALL UNIT

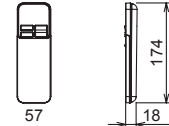
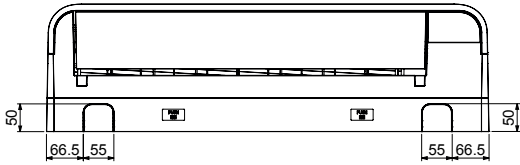
Indoor Unit



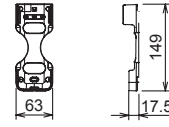
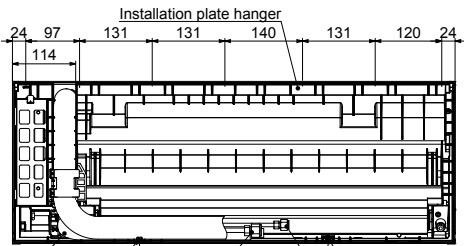
Knock Out System



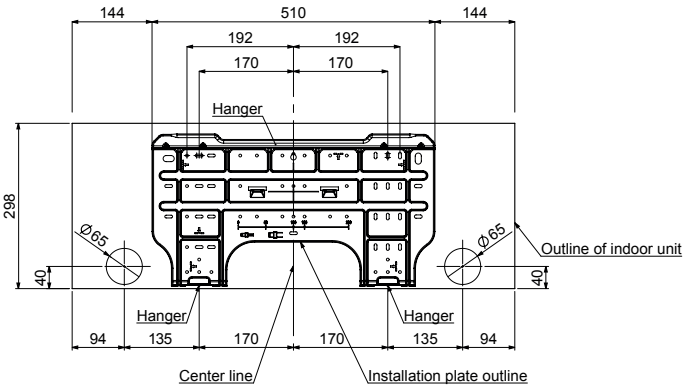
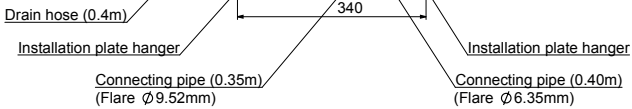
Knock Out System



Wireless remote controller



Remote controller holder





# Ceiling unit

- Attractive design for optimum air distribution
- Optional PCB for external control, alarms, and messages
- Large air throw distances

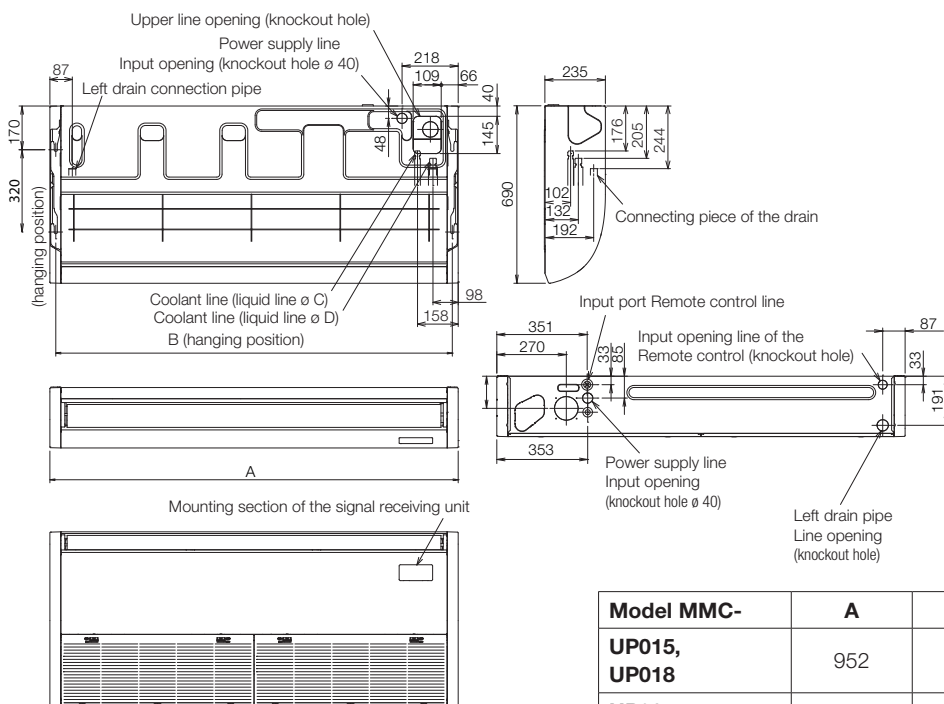


INDOOR UNIT SMMS-u			MMC-UP0151HP-E	MMC-UP0181HP-E	MMC-UP0241HP-E	MMC-UP0271HP-E	MMC-UP0361HP-E	MMC-UP0481HP-E	MMC-UP0561HP-E
Cooling capacity	kW	❄	4,50	5,60	7,10	8,00	11,20	14,00	16,00
Heating capacity	kW	🔥	5,00	6,30	8,00	9,00	12,50	16,00	18,00
Airflow	m³/h		540/690/ 840	540/720/ 960	750/1020/ 1440	750/1020/ 1440	1020/1350/ 1860	1200/1530/ 1860	1260/1650/ 2040
Sound pressure level (low/med/high)	dB(A)	❄	28/34/36	28/35/37	29/36/41	29/36/41	32/38/44	35/41/44	36/42/46
Liquid pipe diameter	mm (inch)		6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)		12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm		VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)
Power supply	V/Ph+N/Hz		220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW	❄	0,033	0,034	0,067	0,067	0,083	0,083	0,111
Dimensions (HxWxD)	mm		235 x 950 x 690	235 x 950 x 690	235 x 1270 x 690	235 x 1270 x 690	235 x 1586 x 690	235 x 1586 x 690	235 x 1586 x 690
Weight	kg		24	24	30	30	39	39	39
Price	€		1.765,-	1.845,-	1.955,-	2.100,-	2.305,-	2.580,-	2.705,-

ACCESSORIES	DESCRIPTION	PRICE €
TCB-DP31CE	Drain pump, discharge head 600 mm, measured from lower edge of unit	440,-
TCB-KP13CE	Elbow-kit (required for drain pump), RAV: Sizes 4 + 5 / VRF: Sizes 15 + 18	70,-
TCB-PCUC2E	Control board for external control, alarms and messages	200,-
TCB-KP24CPE	Elbow-kit, ISO14093 certified flares (required for drain pump), RAV: Sizes 8 + 16 / VRF: Sizes 24 to 56	155,-
TCB-FF101URE2	Spigot flange for fresh air connection Ø 100 mm	80,-

You will find all the control options from page 207.

## CEILING UNIT



Model MMC-	A	B	C	D
UP015, UP018	952	906	Ø 6.4	Ø 12.7
UP024, UP027	1269	1223	Ø 9.5	Ø 15.9
UP036 to UP056	1586	1540		

# 60x60 slim cassette

- 360° air distribution in the Euro-grid with installation height of just 256 mm
- Enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel

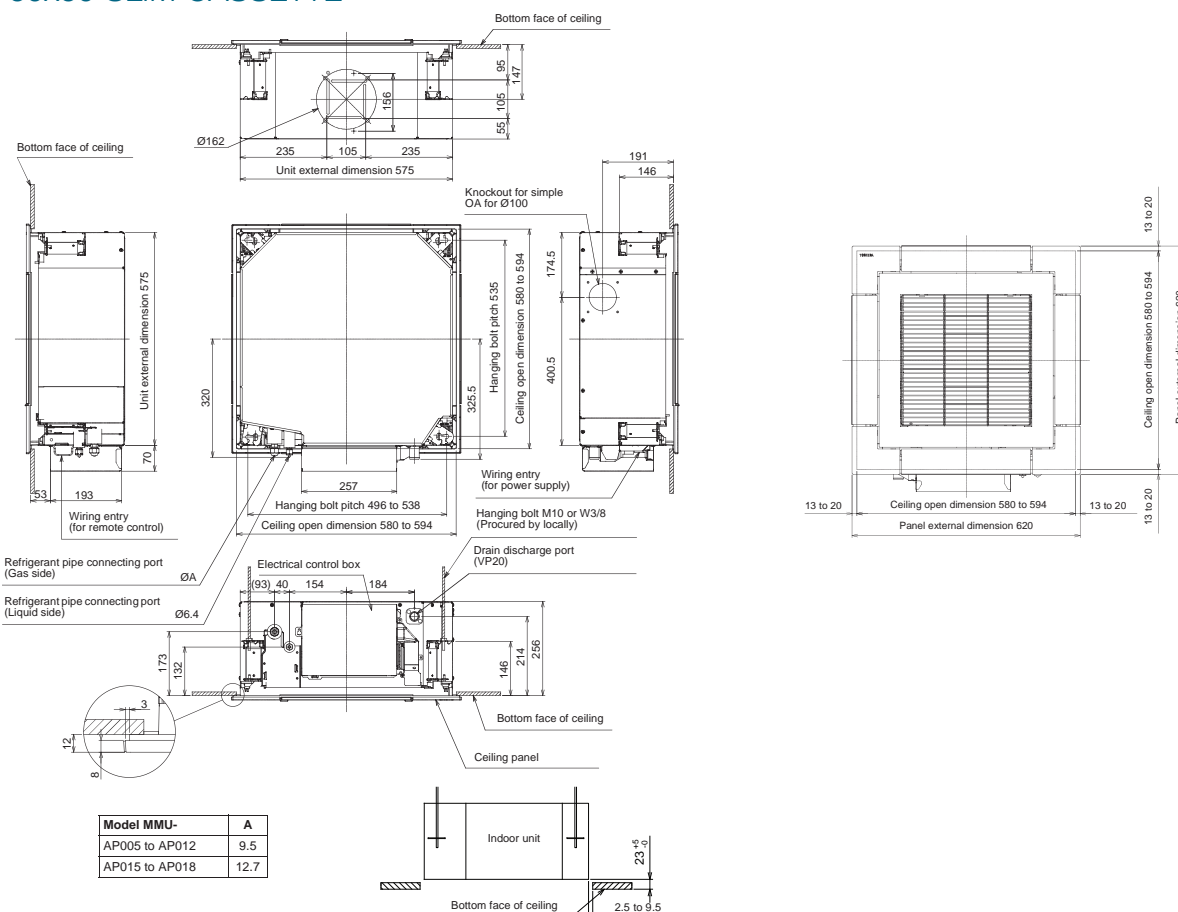


INDOOR UNIT SMMS-u		MMU-UP0051MH-E	MMU-UP0071MH-E	MMU-UP0091MH-E	MMU-UP0121MH-E	MMU-UP0151MH-E	MMU-UP0181MH-E
Cooling capacity	kW ❄️	1,70	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW 🔥	1,90	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	365/430	378/552	378/570	402/594	468/660	522/840
Sound pressure level (low/med/high)	dB(A) ❄️	29/30/32	29/33/37	29/33/38	30/34/38	31/35/40	34/39/47
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,016	0,023	0,025	0,027	0,030	0,052
Dimensions (HxWxD)	mm	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575	256 x 575 x 575
Weight	kg	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5	15,0+2,5
Panel dimensions (HxWxD)	mm	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620	12 x 620 x 620
Panel weight	kg	2,5	2,5	2,5	2,5	2,5	2,5
Price	€	<b>1.465,-</b>	<b>1.515,-</b>	<b>1.650,-</b>	<b>1.710,-</b>	<b>1.805,-</b>	<b>1.870,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-UM21PG(W)-E</b>	Panel for 60x60 slim cassette	<b>440,-</b>
<b>RBC-AXU31UM-E</b>	Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)	<b>180,-</b>
<b>TCB-SIR41UM-E</b>	Occupancy sensor kit for installation in 60x60 slim cassette	<b>130,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>
<b>TCB-PCUC2E</b>	Control board for external control, alarms and messages	<b>200,-</b>

You will find all the control options from page 207.

## 60x60 SLIM CASSETTE



# 4-way standard cassette

- 360° air distribution or direct air flow
- Individually adjustable, draft-free air distribution
- Integrated drain pump (850 mm); prepared for external fresh air supply
  - Accessories required: remote control + panel



INDOOR UNIT SMMS-u		MMU-UP0091HP-E	MMU-UP0121HP-E	MMU-UP0151HP-E	MMU-UP0181HP-E	MMU-UP0241HP-E
Cooling capacity	kW ❄️	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW 🔥	3,20	4,00	5,00	6,30	8,00
Airflow	m³/h	680/730/ 800	680/730/ 800	790/830/ 930	800/920/ 1250	800/920/ 1290
Sound pressure level (low/med/high)	dB(A) ❄️	27/29/30	30/29/27	27/29/31	27/29/32	28/31/35
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,021	0,021	0,023	0,026	0,036
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840	256 x 840 x 840
Weight	kg	18	18	20	20	20
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4	4	4	4	4
<b>Price</b>	<b>€</b>	<b>1.575,-</b>	<b>1.620,-</b>	<b>1.695,-</b>	<b>1.745,-</b>	<b>1.820,-</b>

INDOOR UNIT SMMS-u		MMU-UP0271HP-E	MMU-UP0301HP-E	MMU-UP0361HP-E	MMU-UP0481HP-E	MMU-UP0561HP-E
Cooling capacity	kW ❄️	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW 🔥	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	800/920/ 1290	850/1100/ 1320	1070/1430/ 1970	1130/1430/ 2130	1230/1520/ 2130
Sound pressure level (low/med/high)	dB(A) ❄️	28/31/35	38/33/30	32/38/43	33/38/46	33/40/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,036	0,043	0,088	0,112	0,112
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	20	20	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	4	4	4	4	4
<b>Price</b>	<b>€</b>	<b>1.925,-</b>	<b>2.025,-</b>	<b>2.375,-</b>	<b>2.615,-</b>	<b>2.725,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-U32PGP-E</b>	Panel for wide airflow (SMMS-u)	<b>385,-</b>
<b>RBC-U33P-E</b>	FLAT Panel - pure white, for 4-way standard cassette	<b>385,-</b>
<b>RBC-AXU33UP-E</b>	Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette	<b>230,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>
<b>TCB-PLFC1UPE</b>	PM 2.5 Filterset (before dustfilter), compatible to RBC-U32PGP-E and RBC-U31PGP(W)-E	<b>20,-</b>
<b>TCB-SIR33UP-E</b>	Occupancy sensor kit for installation in FLAT Panel	<b>130,-</b>
<b>TCB-EAPC1UHP-E</b>	PURE Plasmafilter kit for installation in FLAT Panel 4-way standard cassette	<b>1.600,-</b>
<b>RBC-U33PB-E</b>	FLAT panel - BLACK, for 4-way standard cassette (from summer 2022)	<b>405,-</b>
<b>TCB-EABC1UHP-E</b>	PURE plasma filter kit SIMPLIFIED for installation in FLAT panel 4-way standard cassette	<b>850,-</b>

You will find all the control options from page 207.



# 4-way SMART cassette



- 4-way high-efficiency design for large capacities
- Enhanced energy savings via presence sensor option
- Integrated drain pump (850 mm); prepared for external fresh air supply
- Not a stock item – lead time on request
  - Accessories required: remote control + panel

INDOOR UNIT		MMU-UP0091H-E	MMU-UP0121H-E	MMU-UP0151H-E	MMU-UP0181H-E	MMU-UP0241H-E
Cooling capacity	kW ❄️	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW 🔥	3,20	4,00	5,00	6,30	8,00
Airflow	m³/h	708/738/ 768/792/ 846	708/738/ 768/792/ 846	800/860/ 920/960/ 1060	940/1040/ 1100/1160/ 1260	1120/1210/ 1300/1440/ 1580
Sound pressure level (low/med/high)	dB(A) ❄️	26/28/30	26/28/30	28/30/32	31/33/36	35/37/41
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	25	25	25	25	25
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,02	0,02	0,018	0,026	0,042
Dimensions (HxWxD)	mm	256 x 840 x 840	256 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	18	18	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	5,0	5,0	5,0	5,0	5,0
<b>Price</b>	<b>€</b>	<b>2.015,-</b>	<b>2.205,-</b>	<b>2.465,-</b>	<b>2.625,-</b>	<b>2.730,-</b>

INDOOR UNIT		MMU-UP0271H-E	MMU-UP0301H-E	MMU-UP0361H-E	MMU-UP0481H-E	MMU-UP0561H-E
Cooling capacity	kW ❄️	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW 🔥	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	1250/1320/ 1380/1590/ 1770	1400/1450/ 1520/1770/ 1940	1260/1356/ 1596/1848/ 2184	1368/1470/ 1740/1998/ 2262	1404/1512/ 1782/2034/ 2262
Sound pressure level (low/med/high)	dB(A) ❄️	35/37/42	37/39/44	32/38/45	33/39/46	35/40/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	25	25	25	25	25
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,054	0,068	0,125	0,135	0,137
Dimensions (HxWxD)	mm	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840	319 x 840 x 840
Weight	kg	25	25	25	25	25
Panel dimensions (HxWxD)	mm	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950	30 x 950 x 950
Panel weight	kg	5,0	5,0	5,0	5,0	5,0
<b>Price</b>	<b>€</b>	<b>2.775,-</b>	<b>2.855,-</b>	<b>2.960,-</b>	<b>3.120,-</b>	<b>3.365,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-U41PG(W)-E</b>	Panel for smart cassette	<b>430,-</b>
<b>RBC-AXU41U-E</b>	Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette	<b>315,-</b>
<b>TCB-SIR41U-E</b>	Occupancy sensor kit for installation in smart cassette	<b>130,-</b>
<b>TCB-GFC1603UE</b>	Fresh air filter	<b>290,-</b>
<b>TCB-SP1603UE</b>	Spacer frame for lowering the panel by 70 mm	<b>230,-</b>
<b>TCB-BC1603UE</b>	Air discharge direction kit for blocking of up to three discharge sides	<b>75,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

You will find all the control options from page 207.





## 2-way cassette

- › Draft-free air distribution, directed to 2 sides
- › Integrated drain pump (850 mm); prepared for external fresh air supply
  - › Accessories required: remote control + panel



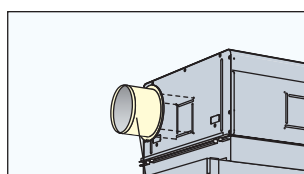
INDOOR UNIT SMMS-u		MMU-UP0071WH-E	MMU-UP0091WH-E	MMU-UP0121WH-E	MMU-UP0151WH-E	MMU-UP0181WH-E
INDOOR UNIT SMMS-e		MMU-AP0072WH1*	MMU-AP0092WH1*	MMU-AP0122WH1*	MMU-AP0152WH1*	
Cooling capacity	kW ❄️	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW 🔥	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	450/498/ 558	450/498/ 558	450/498/ 558	450/534/ 600	618/750/ 900
Sound pressure level (low/med/high)	dB(A) ❄️	30/32/34	30/32/34	30/32/34	30/33/35	30/33/35
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,029	0,029	0,029	0,03	0,044
Dimensions (HxWxD)	mm	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	295 x 815 x 570	345 x 1180 x 570
Weight	kg	19	19	19	19	26
Panel dimensions (HxWxD)	mm	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1050 x 680	20 x 1415 x 680
Panel weight	kg	10	10	10	10	14
<b>Price</b>	<b>€</b>	<b>1.870,-</b>	<b>1.960,-</b>	<b>2.000,-</b>	<b>2.065,-</b>	<b>2.115,-</b>

INDOOR UNIT SMMS-u		MMU-UP0241WH-E	MMU-UP0271WH-E	MMU-UP0301WH-E	MMU-UP0361WH-E	MMU-UP0481WH-E	MMU-UP0561WH-E
INDOOR UNIT SMMS-e		MMU-AP0242WH1*	MMU-AP0272WH1*		MMU-AP0362WH1*	MMU-AP0482WH1*	MMU-AP0562WH1*
Cooling capacity	kW ❄️	7,10	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW 🔥	8,00	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h	738/840/ 1050	738/840/ 1050	780/900/ 1260	1182/1434/ 1740	1230/1482/ 1800	1320/1578/ 2040
Sound pressure level (low/med/high)	dB(A) ❄️	33/35/38	33/35/38	34/37/40	36/39/42	37/40/43	39/42/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,054	0,054	0,064	0,073	0,088	0,117
Dimensions (HxWxD)	mm	345 x 1180 x 570	345 x 1180 x 570	345 x 1180 x 570	345 x 1600 x 570	345 x 1600 x 570	345 x 1600 x 570
Weight	kg	26	26	26	36	36	36
Panel dimensions (HxWxD)	mm	20 x 1415 x 680	20 x 1415 x 680	20 x 1415 x 680	20 x 1835 x 680	20 x 1835 x 680	20 x 1835 x 680
Panel weight	kg	14	14	14	14	14	14
<b>Price</b>	<b>€</b>	<b>2.260,-</b>	<b>2.340,-</b>	<b>2.505,-</b>	<b>3.040,-</b>	<b>3.315,-</b>	<b>3.665,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-UW283PG(W)-E</b>	Panel for sizes 7 to 15	<b>560,-</b>
<b>RBC-UW803PG(W)-E</b>	Panel for sizes 18 to 30	<b>745,-</b>
<b>RBC-UW1403PG(W)-E</b>	Panel for sizes 36 to 56	<b>860,-</b>
<b>TCB-FF151US-E</b>	Spigot flange for fresh air connection Ø 150 mm	<b>80,-</b>

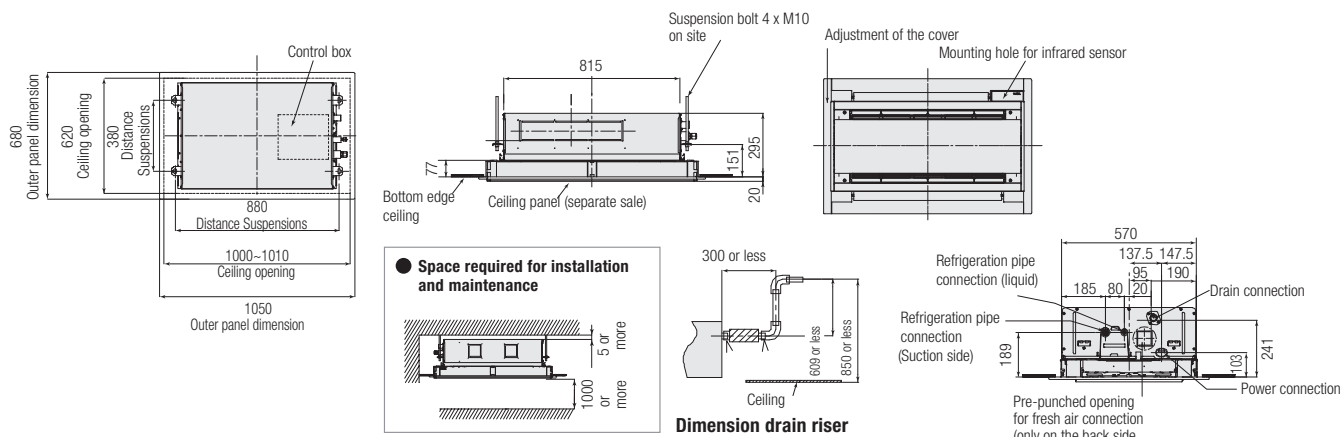
\* While stocks last.

You will find all the control options from page 207.

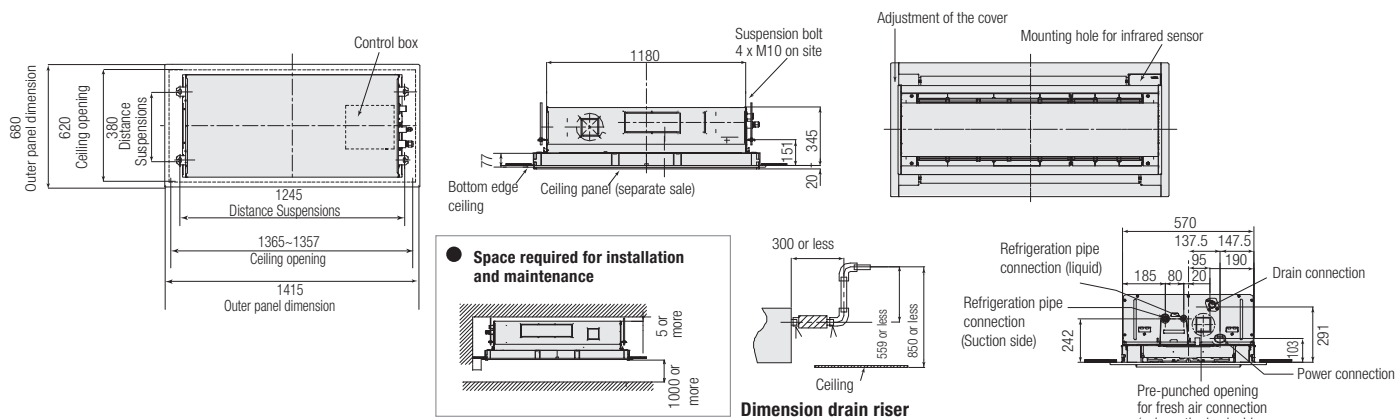


Auxiliary fresh air flange  
TCB-FF151US-E

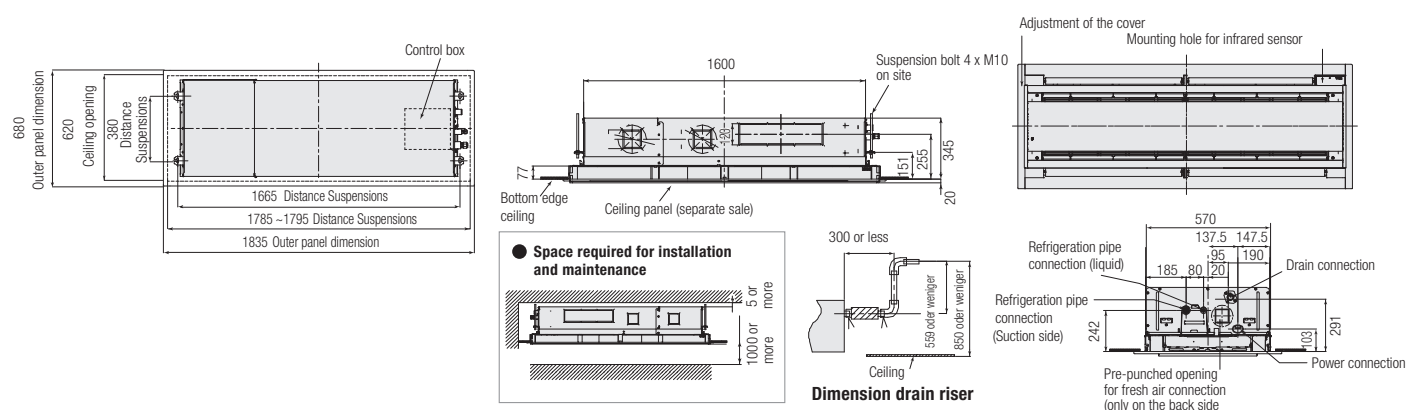
MMU-UP0071WH-E to MMU-UP0151WH-E



MMU-UP0181WH-E to MMU-UP0301WH-E



MMU-UP0361WH-E to MMU-UP0561WH-E



# 1-way flat cassette

- › Draft-free air distribution, directed to 1 side
- › Ultra-flat 30 mm design panel with presence sensor option
- › Optional plasma filter with ionizer
- › Minimal installation height of just 150 mm
- › Integrated drain pump
  - › Accessories required: remote control + panel



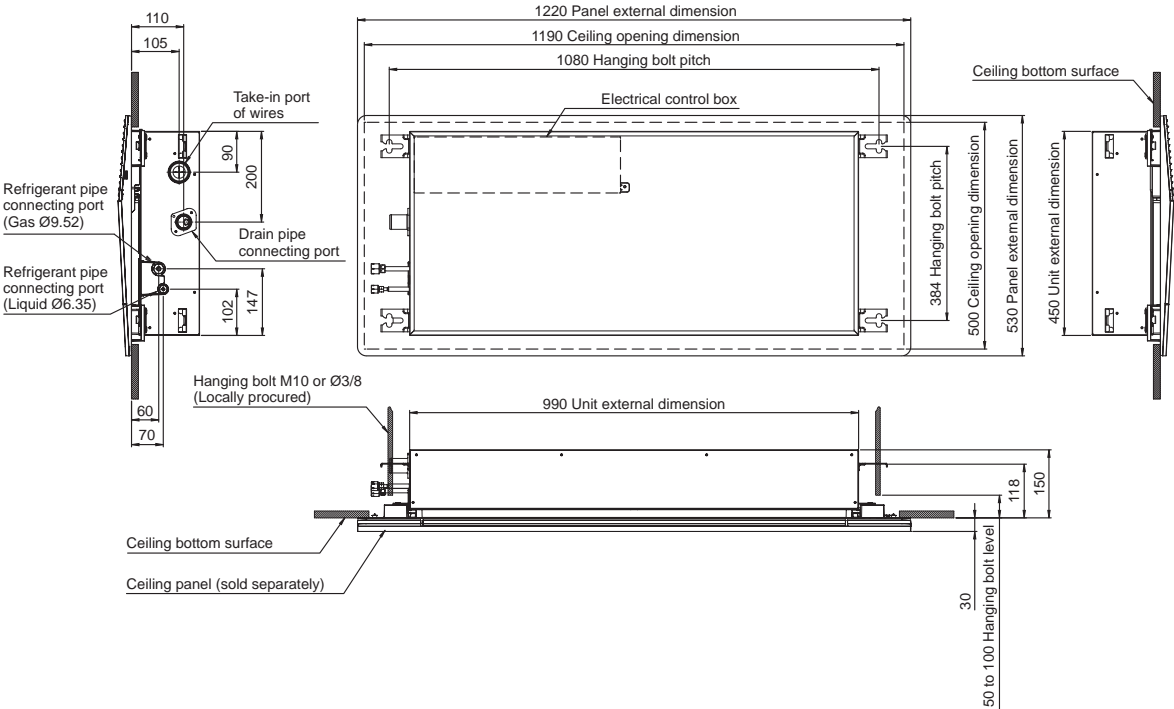
INDOOR UNIT		MMU-UP0031YHP-E	MMU-UP0051YHP-E	MMU-UP0071YHP-E	MMU-UP0091YHP-E	MMU-UP0121YHP-E
Cooling capacity	kW ❄️	0,90	1,70	2,20	2,80	3,60
Heating capacity	kW 🔥	1,30	1,90	2,50	3,20	4,00
Airflow	m³/h	270/370/ 480	270/370/ 480	270/390/ 500	290/410/ 520	290/420/ 540
Sound pressure level (low/med/high)	dB(A) ❄️	25/33/37	25/33/37	25/34/38	26/35/39	26/36/40
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,015	0,015	0,017	0,018	0,018
Dimensions (HxWxD)	mm	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450	150 x 990 x 450
Weight	kg	14+4	14+4	14+4	14+4	14+4
Panel dimensions (HxWxD)	mm	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530	30 x 1220 x 530
Panel weight	kg	4	4	4	4	4
<b>Price</b>	<b>€</b>	<b>2.035,-</b>	<b>2.065,-</b>	<b>2.090,-</b>	<b>2.110,-</b>	<b>2.145,-</b>

INDOOR UNIT		MMU-UP0151YHP-E	MMU-UP0181YHP-E	MMU-UP0241YHP-E	MMU-UP0271YHP-E
Cooling capacity	kW ❄️	4,50	5,60	7,10	8,00
Heating capacity	kW 🔥	5,00	6,30	8,00	9,00
Airflow	m³/h	500/630/700	500/650/800	600/760/940	720/860/1000
Sound pressure level (low/med/high)	dB(A) ❄️	33/36/39	33/37/40	37/42/46	41/44/47
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,8 (5/8)	15,8 (5/8)
Condensate pipe diameter	mm	25	25	25	25
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,025	0,027	0,042	0,05
Dimensions (HxWxD)	mm	150 x 1180 x 450	150 x 1180 x 450	150 x 1180 x 450	150 x 1180 x 450
Weight	kg	15	15	16	16
Panel dimensions (HxWxD)	mm	30 x 1410 x 530	30 x 1410 x 530	30 x 1410 x 530	30 x 1410 x 530
Panel weight	kg	5	5	5	5
<b>Price</b>	<b>€</b>	<b>2.190,-</b>	<b>2.475,-</b>	<b>2.630,-</b>	<b>2.735,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>RBC-UY32P-E</b>	Panel for sizes 3 to 12	<b>590,-</b>
<b>RBC-UY42P-E</b>	Panel for size 15 to 27	<b>615,-</b>
<b>RBC-AX33UYP-E</b>	Infrared remote control + receiver kit for installation in 1-way cassette (SMMSu)	<b>85,-</b>
<b>TCB-EAPC1UYHP-E</b>	Ozone air purifier for 1-way cassette (SMMSu)	<b>320,-</b>
<b>TCB-SIR41UYP-E</b>	Occupancy sensor kit for installation in 1-way cassette (SMMSu)	<b>125,-</b>

You will find all the control options from page 207.

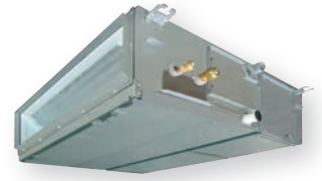
1-WAY FLAT CASSETTE





# Standard duct unit

- › Low installation height of just 275 mm
- › External static pressure up to 120 Pa, integrated air filter
- › Integrated drain pump (850 mm); prepared for external fresh air supply



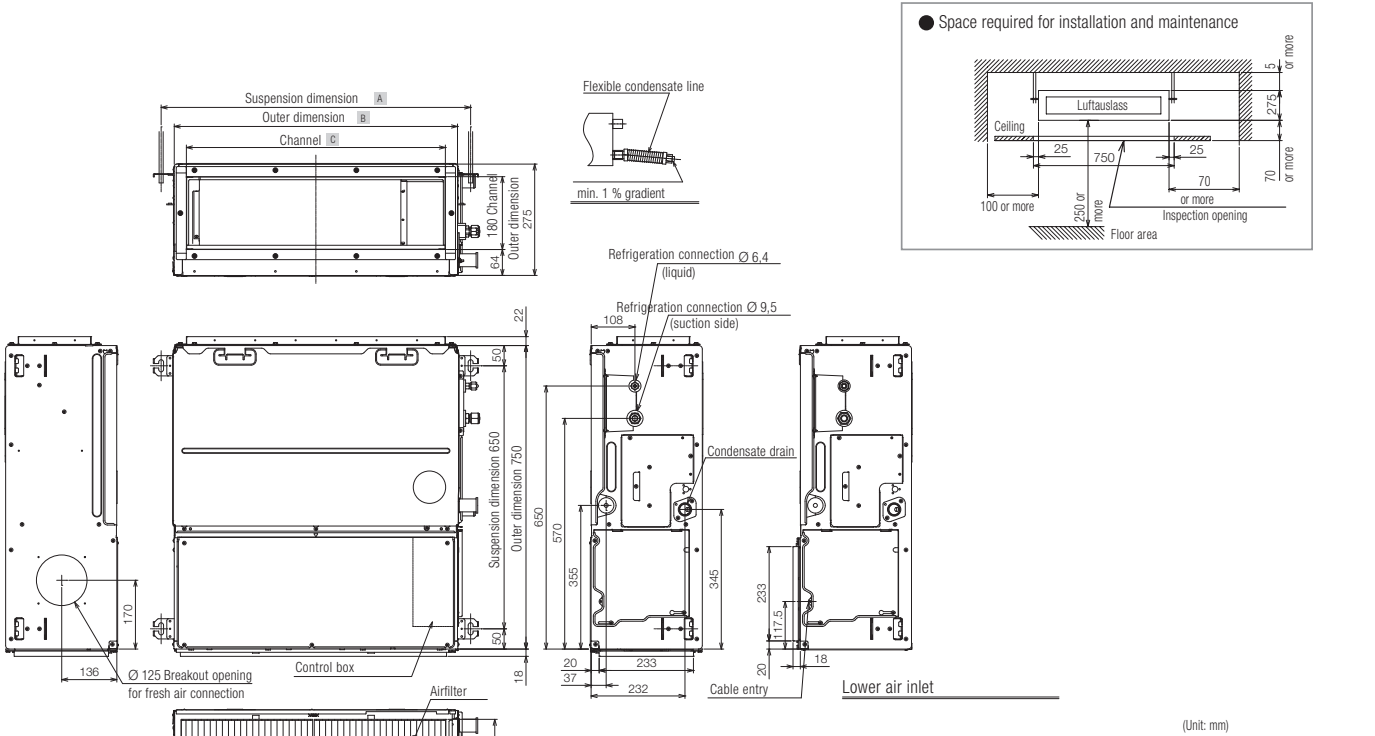
INDOOR UNIT SMMS-u			MMD-UP0051BHP-E	MMD-UP0071BHP-E	MMD-UP0091BHP-E	MMD-UP0121BHP-E	MMD-UP0151BHP-E	MMD-UP0181BHP-E
INDOOR UNIT SMMS-e			MMD-AP0076BHP1-E*					
Cooling capacity	kW	❄️	1,70	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW	🔥	1,90	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h		360/450/ 540	360/450/ 540	390/480/ 570	390/480/ 570	540/660/ 920	540/660/ 920
Sound pressure level (low/med/high)	dB(A)	❄️	29/26/23	23/26/29	23/26/30	23/26/30	25/29/33	25/29/33
Liquid pipe diameter	mm (inch)		6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm		VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz		220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW	❄️	0,055	0,038	0,043	0,043	0,062	0,062
External static pressure	Pa		30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120
Dimensions (HxWxD)	mm		275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750	275 x 700 x 750
Weight	kg		23	23	23	23	23	23
Price	€		<b>1.485,-</b>	<b>1.505,-</b>	<b>1.520,-</b>	<b>1.545,-</b>	<b>1.600,-</b>	<b>1.645,-</b>

INDOOR UNIT SMMS-u			MMD-UP0241BHP-E	MMD-UP0271BHP-E	MMD-UP0301BHP-E	MMD-UP0361BHP-E	MMD-UP0481BHP-E	MMD-UP0561BHP-E
INDOOR UNIT SMMS-e			MMD-AP0276BHP1-E*		MMD-AP0306BHP1-E*	MMD-AP0366BHP1-E*		
Cooling capacity	kW	❄️	7,10	8,00	9,00	11,20	14,00	16,00
Heating capacity	kW	🔥	8,00	9,00	10,00	12,50	16,00	18,00
Airflow	m³/h		870/1090/ 1320	870/1090/ 1320	960/1200/ 1450	1380/1620/ 1920	1500/1920/ 2350	1500/1920/ 2350
Sound pressure level (low/med/high)	dB(A)	❄️	27/31/36	27/31/36	27/31/36	33/36/40	33/36/40	33/36/40
Liquid pipe diameter	mm (inch)		9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm		VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz		220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW	❄️	0,077	0,077	0,094	0,172	0,198	0,198
External static pressure	Pa		30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120	30/40/ 50/65/ 80/ 100/ 120
Dimensions (HxWxD)	mm		275 x 1000 x 750	275 x 1000 x 750	275 x 1000 x 750	275 x 1400 x 750	275 x 1400 x 750	275 x 1400 x 750
Weight	kg		30	30	30	40	40	40
Price	€		<b>1.835,-</b>	<b>1.915,-</b>	<b>2.090,-</b>	<b>2.280,-</b>	<b>2.455,-</b>	<b>2.705,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>TCB-SF56C6BPE</b>	Connection flange (2 × Ø 200 mm) RAV: Size 5 / VRF: Sizes 5 to 18	<b>165,-</b>
<b>TCB-SF80C6BPE</b>	Connection flange (3 × Ø 200 mm) RAV: Size 8 / VRF: Sizes 24 to 30	<b>195,-</b>
<b>TCB-SF160C6BPE</b>	Connection flange (4 × Ø 200 mm) RAV: Sizes 11 to 16 / VRF: Sizes 36 to 56	<b>245,-</b>
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>

\* While stocks last.  
You will find all the control options from page 207.

**STANDARD DUCT UNIT**



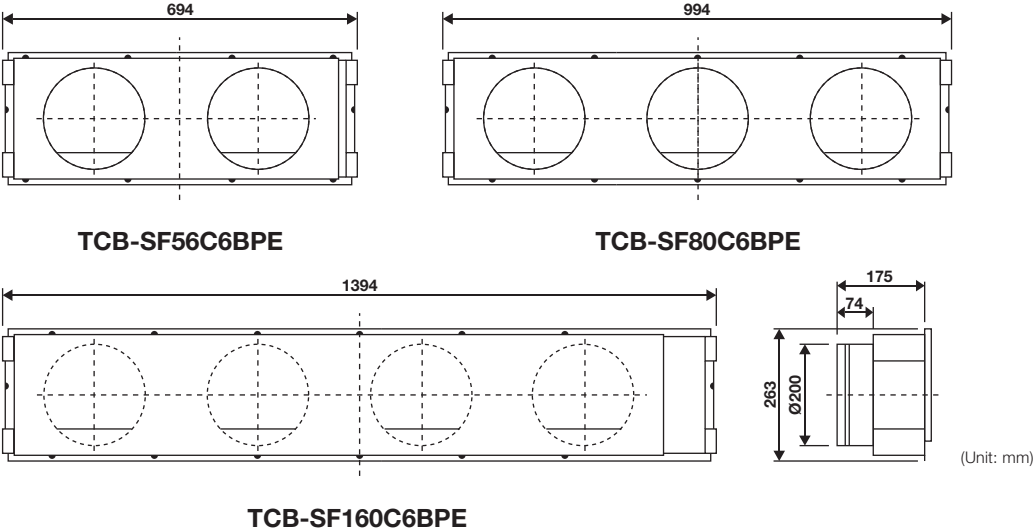
(Unit: mm)

Model MMD-	A	B	C	D
UP0076BHP1-E, UP0096BHP1-E, UP0126BHP1-E	765	700	640	654
UP0156BHP1-E, UP0186BHP1-E	765	700	640	654
UP0246BHP1-E, UP0276BHP1-E, UP0306BHP1-E	1065	1000	940	935.5
UP0366BHP1-E, UP0486BHP1-E, UP0566BHP1-E	1465	1400	1340	1349

The following connection flanges are available for standard duct units:

Flange	Compatible with
TCB-SF56C6BPE	MMD-UP0076/0096/0126/0156/0186BHP1-E
TCB-SF80C6BPE	MMD-UP0246/0276/0306BHP1-E
TCB-SF160C6BPE	MMD-UP0366/0486/0566BHP1-E

Outer Dimensions



(Unit: mm)

# SSD super-slim duct unit

- › Minimal installation height of just 210 mm
- › Lightweight and quiet, with compact dimensions
- › Integrated air filter & drain pump (350 mm)



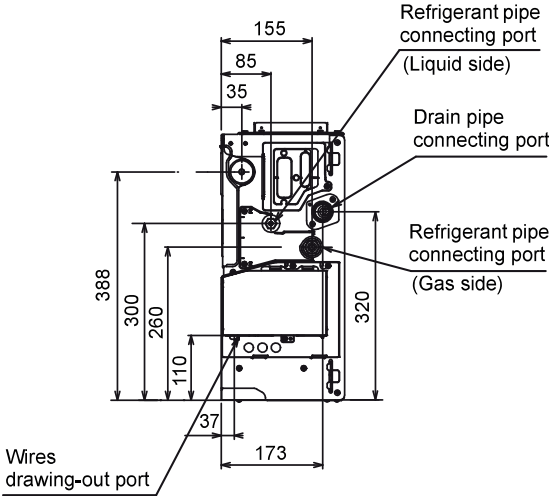
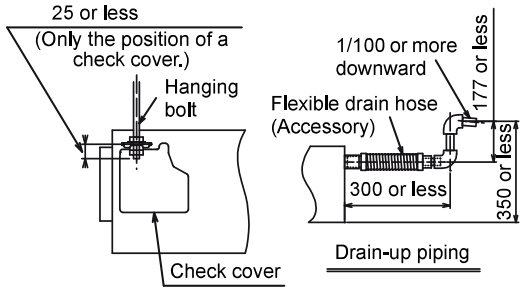
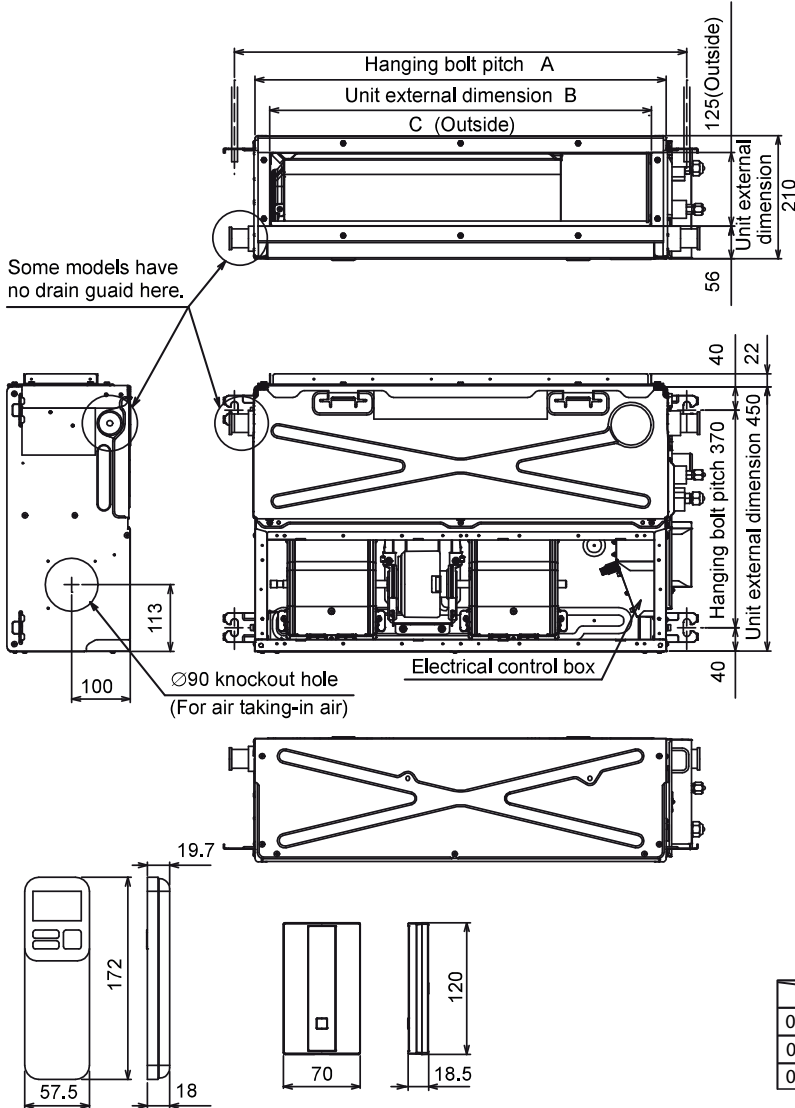
INDOOR UNIT		MMD-UP0031SPHY-E	MMD-UP0051SPHY-E	MMD-UP0071SPHY-E	MMD-UP0091SPHY-E	MMD-UP0121SPHY-E
Cooling capacity	kW ❄️	0,90	1,70	2,20	2,80	3,60
Heating capacity	kW 🔥	1,00	1,90	2,50	3,20	4,00
Airflow	m³/h	410/380/ 360	450/410/ 380	540/470/ 400	570/500/ 430	600/520/ 440
Sound pressure level (low/med/high)	dB(A) ❄️	25/26/ 27/28/ 29	26/27/ 28/29/ 30	26/28/ 29/30/ 31	26/28/ 29/31/ 32	27/29/ 30/32/ 33
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,018	0,02	0,026	0,029	0,031
External static pressure	Pa	10/20/ 30/40/ 50	10/20/ 30/40/ 50	10/20/ 30/40/ 50	10/20/ 30/40/ 50	10/20/ 30/40/ 50
Dimensions (HxWxD)	mm	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450	210 x 700 x 450
Weight	kg	16	16	16	16	16
<b>Price</b>	<b>€</b>	<b>1.155,-</b>	<b>1.175,-</b>	<b>1.210,-</b>	<b>1.235,-</b>	<b>1.295,-</b>

INDOOR UNIT		MMD-UP0151SPHY-E	MMD-UP0181SPHY-E	MMD-UP0241SPHY-E	MMD-UP0271SPHY-E
Cooling capacity	kW ❄️	4,50	5,60	7,10	8,00
Heating capacity	kW 🔥	5,00	6,30	8,00	9,00
Airflow	m³/h	690/640/550	780/750/660	1080/950/860	1140/980/910
Sound pressure level (low/med/high)	dB(A) ❄️	28/29/30/31/33	29/31/32/33/34	30/32/33/35/36	32/33/34/36/37
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,035	0,044	0,067	0,072
External static pressure	Pa	10/20/30/40/50	10/20/30/40/50	10/20/30/40/50	10/20/30/40/50
Dimensions (HxWxD)	mm	210 x 900 x 450	210 x 900 x 450	210 x 1100 x 450	210 x 1100 x 450
Weight	kg	18	18	21	21
<b>Price</b>	<b>€</b>	<b>1.350,-</b>	<b>1.430,-</b>	<b>1.540,-</b>	<b>1.655,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>TCB-FF101URE2</b>	Spigot flange for fresh air connection Ø 100 mm	<b>80,-</b>
<b>TCB-TDL0141SDY-E</b>	Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 5 to 12.	<b>225,-</b>
<b>TCB-TDL0181SDY-E</b>	Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 15 and 18.	<b>260,-</b>
<b>TCB-TDL0271SDY-E</b>	Stylish louver unit for SSD Superflat Duct Unit. The three-dimensional air distribution ensures draft-free comfort. For sizes 24 and 27.	<b>290,-</b>

You will find all the control options from page 207.

SSD SUPER-SLIM DUCT UNIT



	A	B	C
003, 005, 007, 009, 012	770	700	650
015, 018	970	900	850
024, 027	1,170	1,100	1,050

# High-pressure duct unit

- Greatest airflow with most compact structure
- External static pressure adjustable up to 250 Pa
- Integrated drain pump (850 mm, up to size 56)



INDOOR UNIT SMMS-u		MMD-UP0181HP-E	MMD-UP0241HP-E	MMD-UP0271HP-E	MMD-UP0361HP-E
Cooling capacity	kW ❄️	5,60	7,10	8,00	11,20
Heating capacity	kW 🔥	6,30	8,00	9,00	12,50
Airflow	m³/h	900/990/1100	960/1050/1200	1200/1350/1500	1340/1560/1920
Sound pressure level (low/med/high)	dB(A) ❄️	31/33/37	31/34/38	38/41/43	34/37/41
Liquid pipe diameter	mm (inch)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,125	0,140	0,190	0,230
External static pressure	Pa	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/75/100/125/150/175/200
Dimensions (HxWxD)	mm	298 x 1000 x 750	298 x 1000 x 750	298 x 1000 x 750	298 x 1400 x 750
Weight	kg	34	34	34	43
<b>Price</b>	<b>€</b>	<b>2.440,-</b>	<b>2.670,-</b>	<b>2.780,-</b>	<b>2.905,-</b>

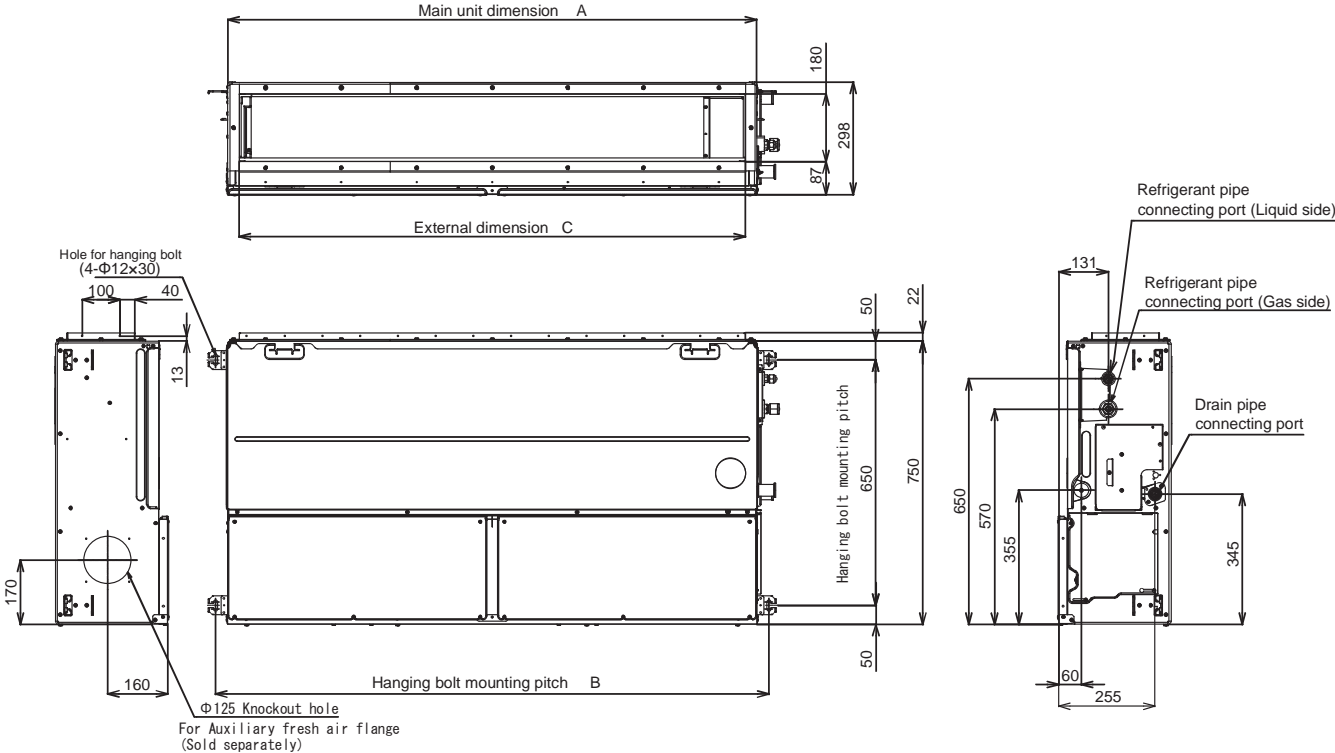
INDOOR UNIT SMMS-u		MMD-UP0481HP-E	MMD-UP0561HP-E	MMD-UP0721HP-E1	MMD-UP0961HP-E1
Cooling capacity	kW ❄️	14,00	16,00	22,40	28,00
Heating capacity	kW 🔥	16,00	18,00	25,00	31,50
Airflow	m³/h	1695/1980/2340	1920/2340/2760	2500/3200/3800	3500/4200/4800
Sound pressure level (low/med/high)	dB(A) ❄️	38/41/44	41/44/46	36/40/44	38/42/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	15,9 (5/8)	22,2 (7/8)	22,0 (7/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,300	0,400	0,540	0,790
External static pressure	Pa	50/75/100/125/150/175/200	50/75/100/125/150/175/200	50/83/117/150/183/217/250	50/83/117/150/183/217/250
Dimensions (HxWxD)	mm	298 x 1400 x 750	298 x 1400 x 750	448 x 1400 x 900	448 x 1400 x 900
Weight	kg	43	43	97	97
<b>Price</b>	<b>€</b>	<b>3.040,-</b>	<b>3.270,-</b>	<b>6.655,-</b>	<b>6.940,-</b>

ACCESSORIES	DESCRIPTION	PRICE €
<b>TCB-DP40DPE</b>	Drain pump, RAV: 22 + 28 / VRF: 72 + 96	<b>470,-</b>
<b>TCB-LK801D-E</b>	Long Life Airfilter kit, for model sizes 18, 24 + 27	<b>80,-</b>
<b>TCB-LK1401D-E</b>	Long Life Airfilter kit, for model sizes 36, 48 + 56	<b>110,-</b>
<b>TCB-LK2801DP-E</b>	Long Life Airfilter kit, for model sizes RAV: 22 + 28 / VRF: 72 + 96	<b>165,-</b>

You will find all the control options from page 207.

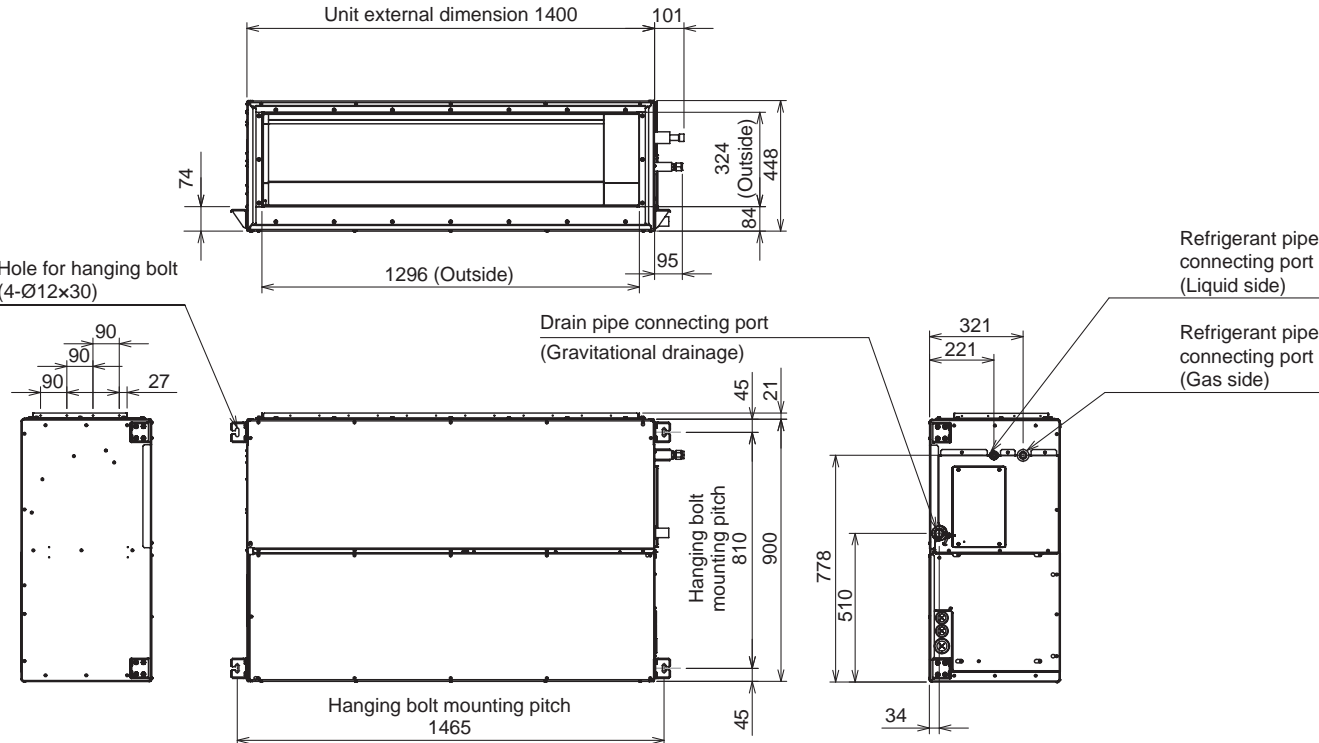


HIGH-PRESSURE DUCT UNITS MMD-UP0181HP-E to MMD-UP0561HP-E

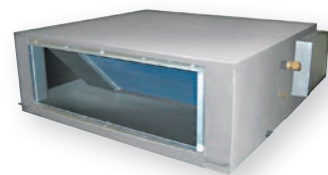


Unit dimension	A	B	C	D
UP018 ~ 027 type	1000	1065	940	500
UP036 ~ 056 type	1400	1465	1340	700

HIGH-PRESSURE DUCT UNITS MMD-UP0721HP-E to MMD-UP0961HP-E1



# Fresh-air duct unit SMMSe



- For introducing up to 100% additional fresh air
- Pre-heating and pre-cooling function
- Can be used in combination with other indoor units

INDOOR UNIT SMMSu		MMD-AP0481HFE*	MMD-AP0721HFE*	MMD-AP0961HFE*
Cooling capacity	kW ❄️	14,00	22,40	28,00
Heating capacity	kW 🔥	8,90	13,90	17,40
Airflow	m³/h	1080	1680	2100
Sound pressure level (low/med/high)	dB(A) ❄️	41/43/45	44/45/46	44/45/46
Liquid pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	22,2 (7/8)	22,2 (7/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,28	0,45	0,52
External static pressure	Pa	170/210/230	140/165/180	160/190/205
Dimensions (HxWxD)	mm	492 x 892 x 1262	492 x 1392 x 1262	492 x 1392 x 1262
Weight	kg	93	144	144
Price	€	2.990,-	6.050,-	6.350,-

\* While stocks last.

You will find all the control options from page 207.

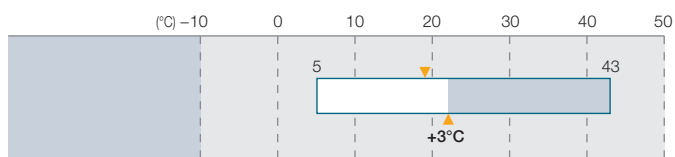
## Nominal conditions:

Cooling: Outdoor air temperature 33°C DB / 28°C WB, set temperature 18°C

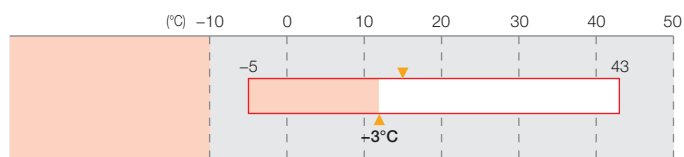
Heating: Outdoor air temperature 0°C DB / -2.9°C WB, set temperature 25°C

Refrigerant piping: Length 7.5 m / Height 0 m

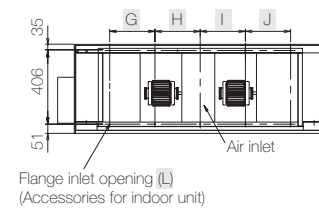
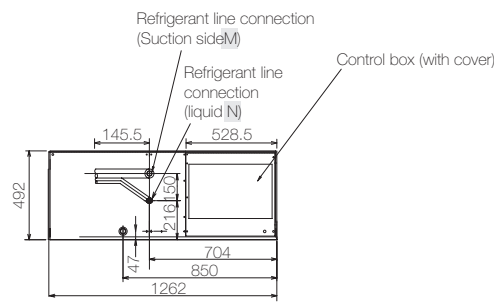
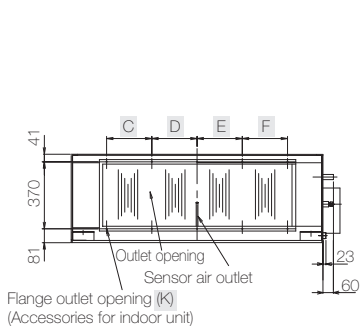
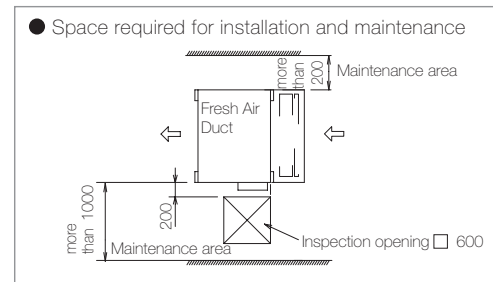
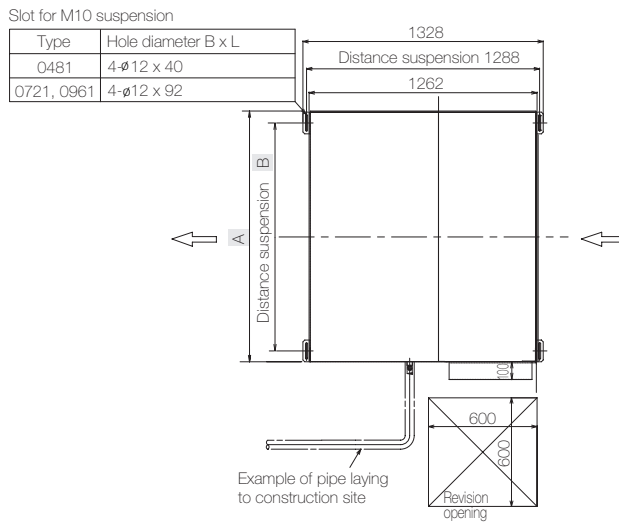
## COOLING MODE



## HEATING MODE

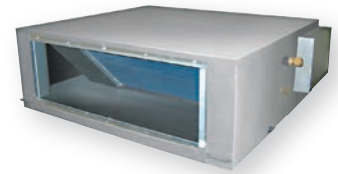


FRESH-AIR DUCT UNIT SMMS<sub>e</sub>



MODEL	MMD-	A	B	C	D	E	F	G	H	I	J	K	L	M	N
AP0481HFE		892	810	215	107.5	107.5	215	-	250	250	-	8-M6	6-M6	∅ 15.9 flanged	∅ 9.5 flanged
AP0721HFE, AP0961HFE		1392	1260	250	250	250	250	250	250	250	250	10-M6	10-M6	∅ 22.2 soldered	∅ 12.7 flanged

# Fresh-air duct unit SMMSu



- › Compact and lightweight chassis
- › Line-up to 40 kW
- › Intake air temperature from -10 to +46°C
- › For SMMSu and SMMSe systems  
(apart from sizes 112 & 128 exclusively for SMMSu)

INDOOR UNIT SMMSu		MMD-UP0481HFP-E	MMD-UP0721HFP-E1	MMD-UP0961HFP-E1	MMD-UP1121HFP-E1	MMD-UP1281HFP-E1
Cooling capacity	kW ❄️	14,00	22,40	28,00	33,50	40,00
Heating capacity	kW 🔥	8,90	13,90	17,40	20,80	25,20
Airflow	m³/h	760/930/ 1080	1200/1440/ 1680	1470/1800/ 2100	1770/2130/ 2520	2130/2580/ 3060
Sound pressure level (low/med/high)	dB(A) ❄️	31/32/ 35/37/ 38	33/35/ 36/37/ 38	33/35/ 36/38/ 39	34/36/ 37/39/ 40	35/37/ 38/40/ 42
Liquid pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	12,7 (½)	15,9 (5/8)
Suction gas pipe diameter	mm (inch)	15,9 (5/8)	22,2 (7/8)	22,2 (7/8)	28,6 (1 1/8)	28,6 (1 1/8)
Condensate pipe diameter	mm	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)	VP25 (25/32)
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,11	0,16	0,20	0,250	0,330
External static pressure	Pa	50/75/ 100/125/ 150/175/ 200	50/75/ 100/125/ 150/175/ 200	50/75/ 100/125/ 150/175/ 200	50/75/ 100/125/ 150/175/ 200	50/75/ 100/125/ 150/175/ 200
Dimensions (HxWxD)	mm	327 x 1430 x 750	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900	477 x 1430 x 900
Weight	kg	44	99	99	99	99
Price	€	<b>3.745,-</b>	<b>7.560,-</b>	<b>7.945,-</b>	<b>8.500,-</b>	<b>9.105,-</b>

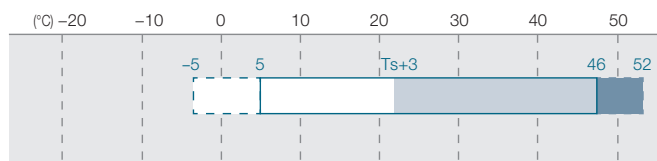
ACCESSORIES	DESCRIPTION	PRICE €
TCB-DP40DFP-E	Drain pump	470,-

You will find all the control options from page 207.

## Nominal conditions:

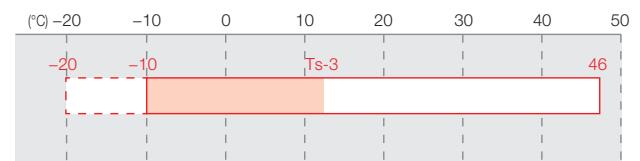
Cooling: Outdoor air temperature 33°C DB / 28°C WB, set temperature 18°C  
 Heating: Outdoor air temperature 0°C DB / -2.9°C WB, set temperature 25°C  
 Refrigerant piping: Length 7.5 m / Height 0 m

## COOLING MODE



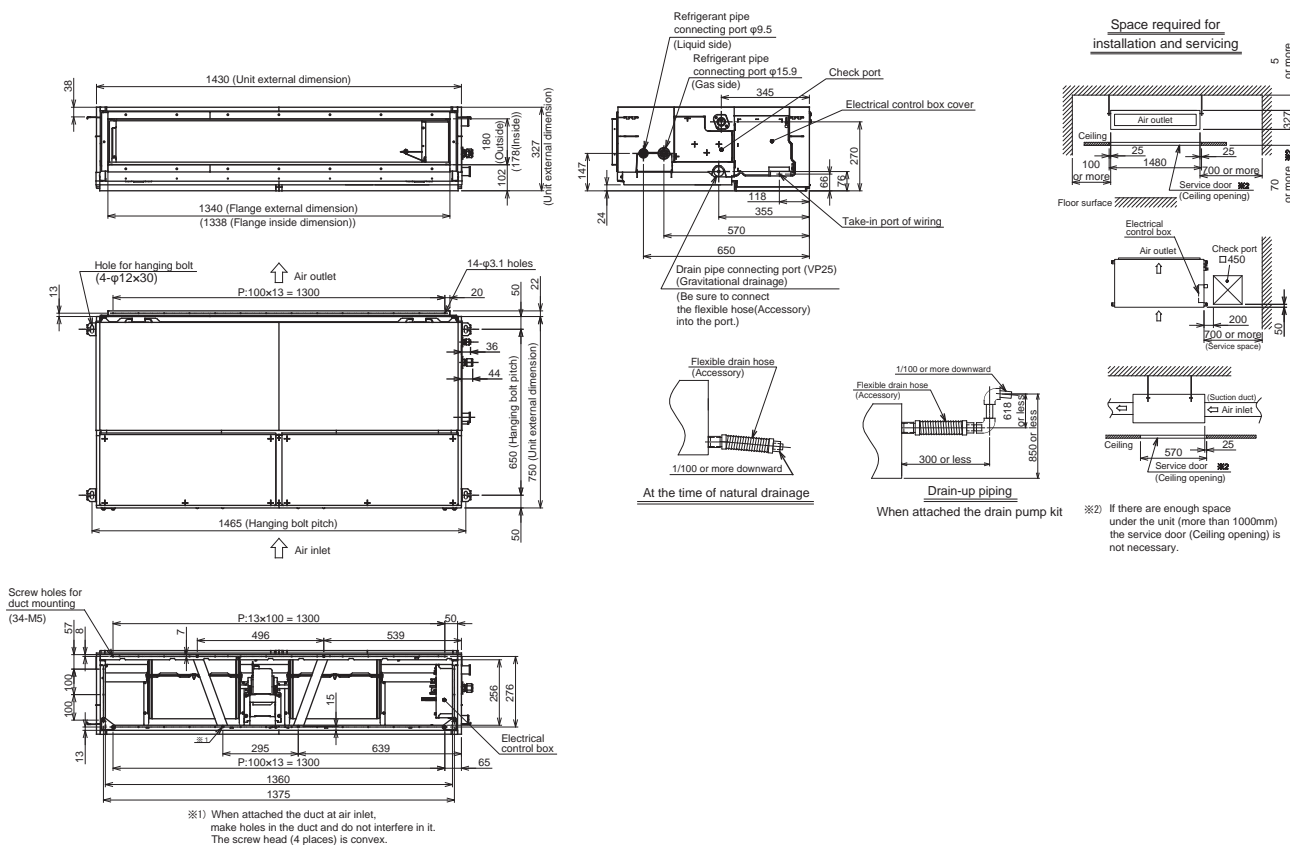
- ❄️ Requires pre-treatment of suction air to be 5°C or higher by the external heater.
- Operatable but the adequate cooling performance will not be obtained.

## HEATING MODE

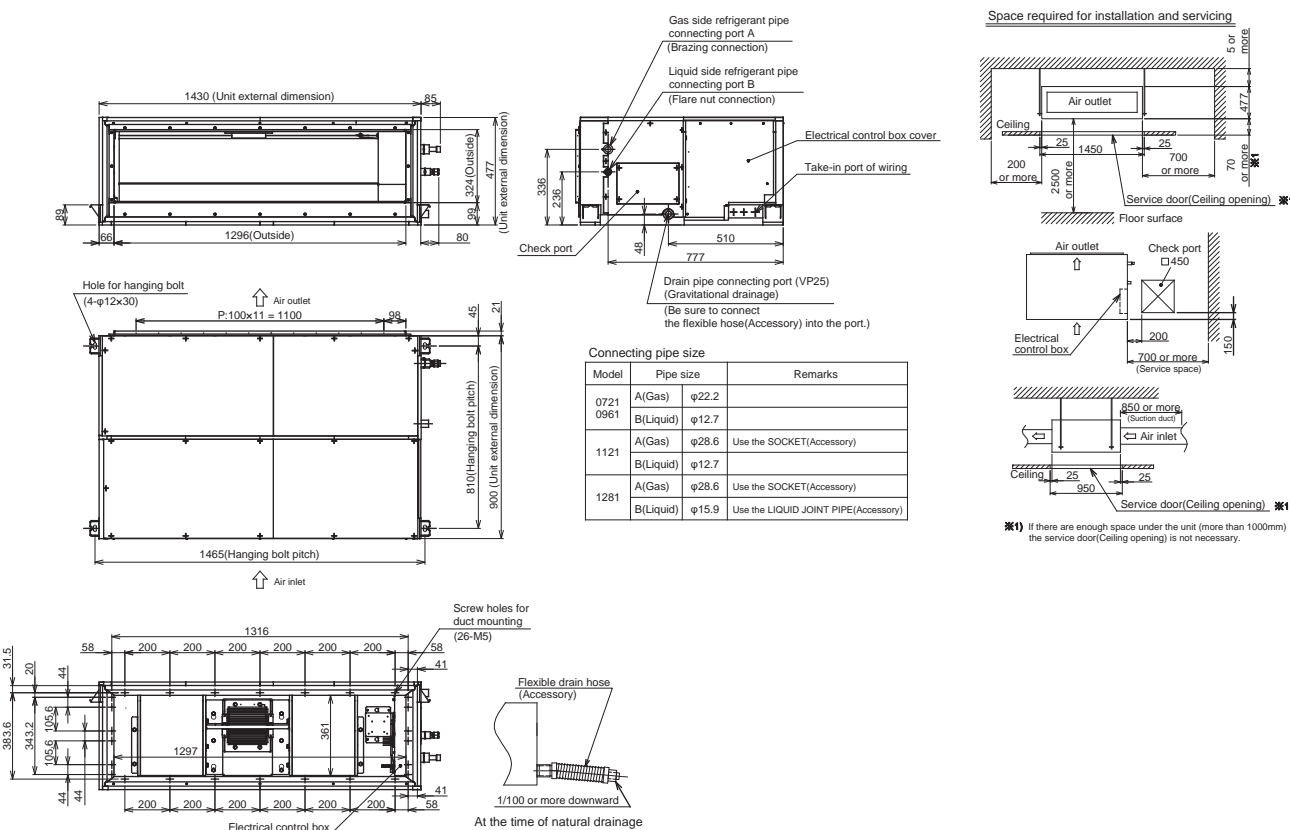


- ❄️ Requires pre-treatment of suction air to be -10°C or higher by the external heater.

FRESH-AIR DUCT UNIT SMMSu  
MMD-UP0481HFP-E



FRESH-AIR DUCT UNIT SMMSu  
MMD-UP0721HFP-E1 / MMD-UP0961HFP-E1 / MMD-UP1121HFP-E1 / MMD-UP1281HFP-E1





# Console

- › BI-Flow console with air outlet on two sides & floor heating effect
- › Very quiet running due to radial fan
- › For SMMSu and SMMSe systems

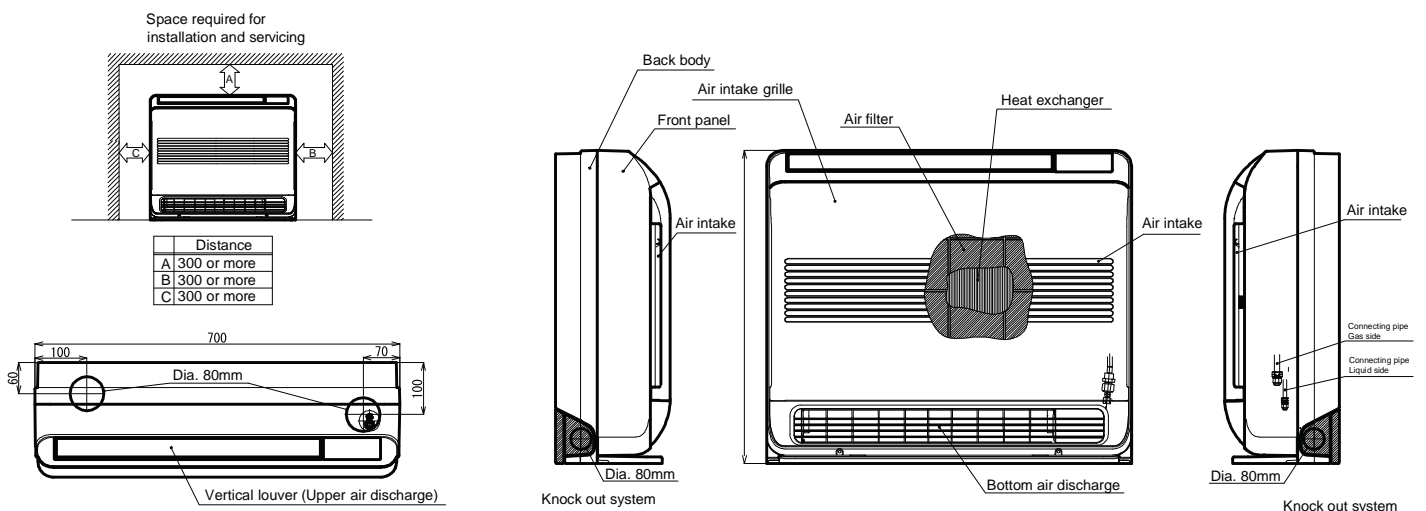


INDOOR UNIT SMMS-u		MML-UP0071NHP-E	MML-UP0091NHP-E	MML-UP0121NHP-E	MML-UP0151NHP-E	MML-UP0181NHP-E
Cooling capacity	kW ❄️	2,20	2,80	3,60	4,50	5,60
Heating capacity	kW 🔥	2,50	3,20	4,00	5,00	6,30
Airflow	m³/h	282/366/ 510	282/366/ 510	324/804/ 552	384/468/ 624	426/528/ 726
Sound pressure level (low/med/high)	dB(A) ❄️	26/32/38	26/32/38	29/34/40	31/37/43	34/40/47
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	16	16	16	16	16
Power supply	V/Ph+N/Hz	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50	220-240/1/ 50
Power consumption (min./nom./max.)	kW ❄️	0,021	0,021	0,025	0,034	0,052
Dimensions (HxWxD)	mm	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220	600 x 700 x 220
Weight	kg	17	17	17	17	17
Price	€	<b>1.520,-</b>	<b>1.610,-</b>	<b>1.710,-</b>	<b>1.820,-</b>	<b>1.900,-</b>

ACCESSORIES	DESCRIPTION	INCLUDED	PRICE €
Remote control	Infrared remote control included	✓	

You will find all the control options from page 207.

## CONSOLE



# Chassis

- Console unit for custom paneling
- Completely hidden so does not affect the interior
- For SMMSu and SMMSe systems

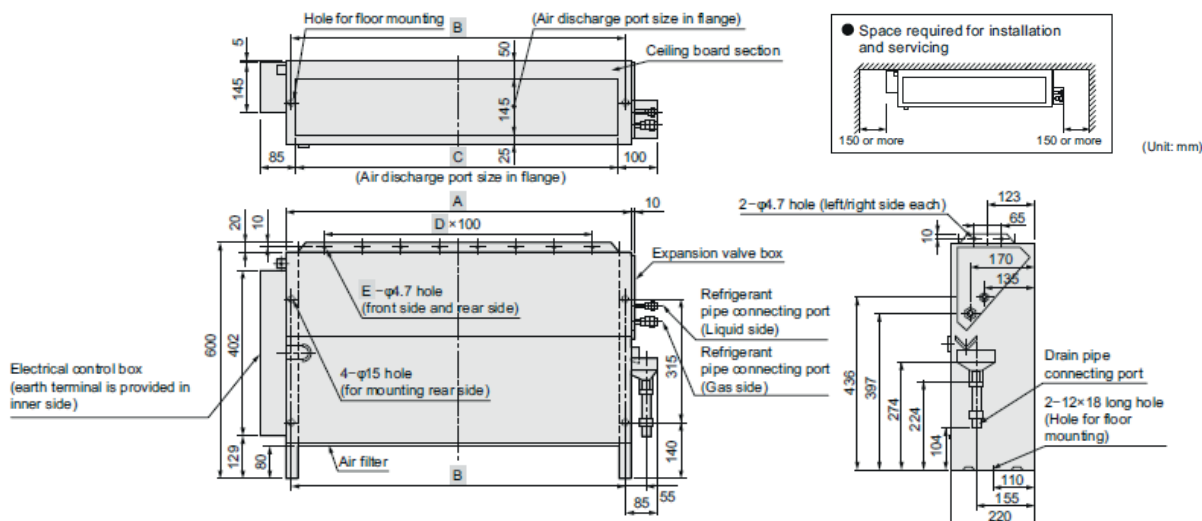


INDOOR UNIT		MML-UP0071BH-E	MML-UP0091BH-E	MML-UP0121BH-E	MML-UP0151BH-E	MML-UP0181BH-E	MML-UP0241BH-E
INDOOR UNIT		MML-AP0074BH1-E*	MML-AP0094BH1-E*	MML-AP0154BH1-E*		MML-AP0244BH1-E*	
Cooling capacity	kW ❄️	2,20	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW 🔥	2,50	3,20	4,00	5,00	6,30	8,00
Airflow	m³/h	300/400/460	300/400/460	300/400/460	460/600/740	490/600/740	640/790/950
Sound pressure level (low/med/high)	dB(A) ❄️	32/34/36	32/34/36	32/34/36	32/34/36	32/34/36	33/37/42
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	12,7 (½)	12,7 (½)	15,9 (5/8)
Condensate pipe diameter	mm	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,056	0,056	0,056	0,090	0,090	0,095
Dimensions (HxWxD)	mm	600 x 745 x 220	600 x 745 x 220	600 x 745 x 220	600 x 1045 x 220	600 x 1045 x 220	600 x 1045 x 220
Weight	kg	21	21	21	29	29	29
Price	€	<b>1.980,-</b>	<b>2.000,-</b>	<b>2.065,-</b>	<b>2.105,-</b>	<b>2.125,-</b>	<b>2.185,-</b>

\* While stocks last.

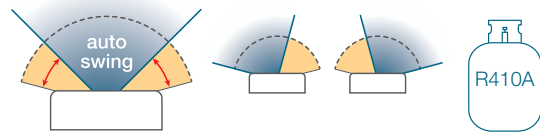
You will find all the control options from page 207.

## CHASSIS



# Floor standing unit

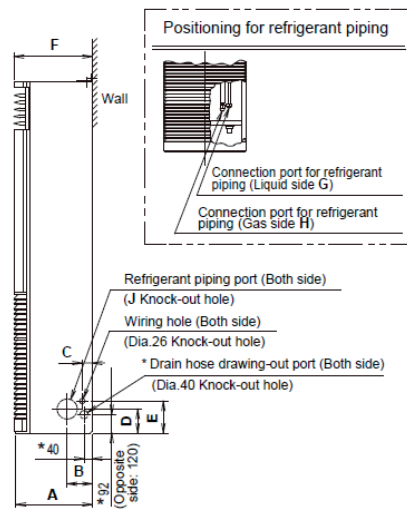
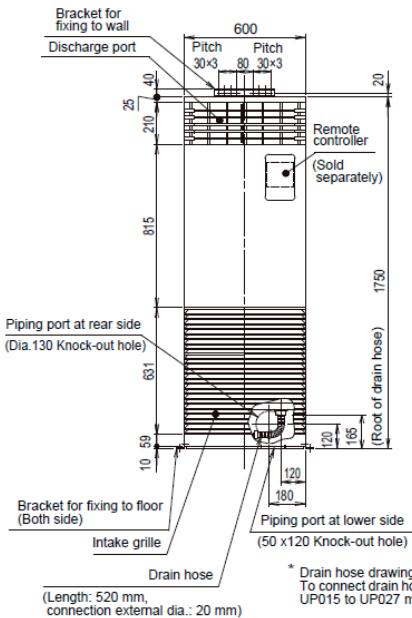
- Air outlet can be directed forward or up
- Optional PCB for external control, alarms, and messages
- Recess with cover for standard remote control
- Not a stock item – lead time on request



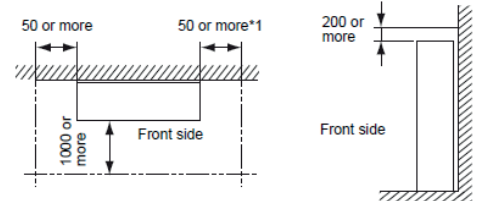
INDOOR UNIT		MMF-UP0151H-E	MMF-UP0181H-E	MMF-UP0241H-E	MMF-UP0271H-E	MMF-UP0361H-E	MMF-UP0481H-E	MMF-UP0561H-E
Cooling capacity	kW ❄️	4,50	5,60	7,10	8,00	11,20	14,00	16,00
Heating capacity	kW 🔥	5,00	6,30	8,00	9,00	12,50	16,00	18,00
Airflow	m³/h	660/780/900	660/780/900	840/990/1200	840/990/1200	1380/1620/1920	1560/1730/2160	1560/1730/2160
Sound pressure level (low/med/high)	dB(A) ❄️	37/42/46	37/42/46	39/45/49	39/45/49	41/46/51	44/49/54	44/49/54
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)	9,5 (3/8)
Suction gas pipe diameter	mm (inch)	12,7 (½)	12,7 (½)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)	15,9 (5/8)
Condensate pipe diameter	mm	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)	VP20 (20/26)
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Power consumption (min./nom./max.)	kW ❄️	0,055	0,055	0,089	0,089	0,135	0,160	0,160
Dimensions (HxWxD)	mm	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 210	1750 x 600 x 390	1750 x 600 x 390	1750 x 600 x 390
Weight	kg	46	46	47	47	62	62	62
Price	€	<b>2.895,-</b>	<b>2.940,-</b>	<b>3.065,-</b>	<b>3.080,-</b>	<b>3.315,-</b>	<b>3.335,-</b>	<b>3.365,-</b>

You will find all the control options from page 207.

## FLOOR STANDING UNIT



### Space required for installation and maintenance



\* Drain hose drawing-out port (Both side) is for only UP036 model to UP056. To connect drain hose on right or left, route it through the knock-out for refrigerant piping on UP015 to UP027 model.

Model MMF-	A	B	C	D	E	F	G	H	J
UP015, UP018	200	50	107	132	157	210	6.4	12.7	80
UP024, UP027									
UP036 to UP056	380	125	50	120	160	390	9.5	15.9	100



BUSINESS / VRF IDU

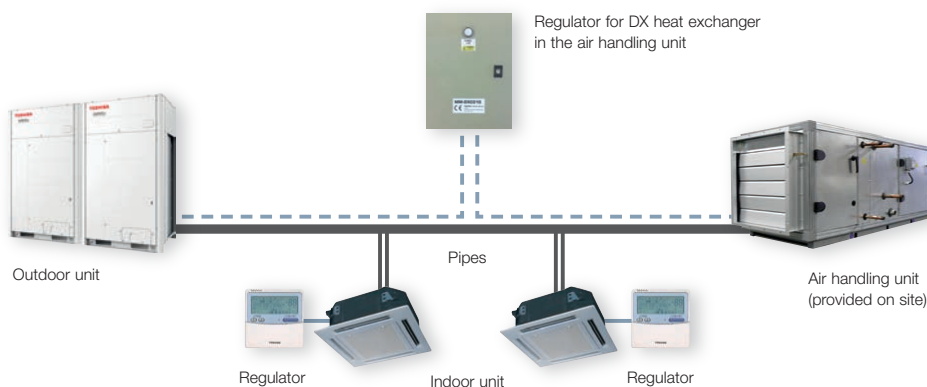


## DX-kit exhaust air controlled

- › For regulating the exhaust air or room temperature
- › Direct expansion kit consisting of control cabinet, PMV kit, and all the necessary sensors
- › For use together with air handling units and air curtains
- › Wired remote control included (in master only)



ACCESSORIES	DESCRIPTION	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
<b>MM-DXC010</b>	Control unit (master)	400 x 300 x 150	7,6	<b>1.200,-</b>
<b>MM-DXC012</b>	Control unit (follower)	400 x 300 x 150	8,0	<b>930,-</b>
<b>MM-DXV080</b>	Valve kit up to 8 kW			<b>640,-</b>
<b>MM-DXV140</b>	Valve kit up to 14 kW			<b>640,-</b>
<b>MM-DXV280</b>	Valve kit up to 28 kW			<b>640,-</b>

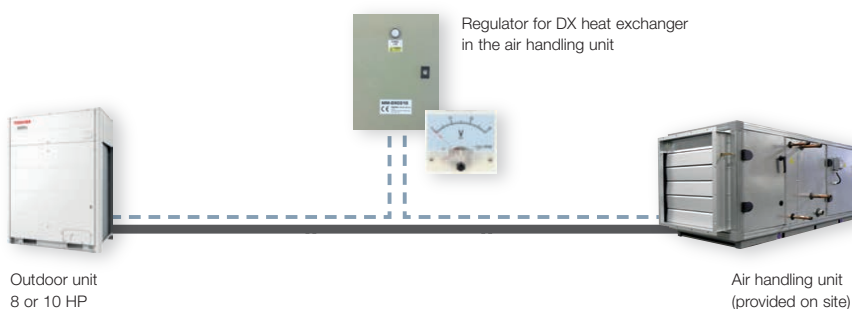


## DX-kit 0 – 10 V capacity control

- › For supply air control
- › Direct expansion kit consisting of control cabinet, PMV kit, and all the necessary sensors
- › For use together with air handling units and air curtains
- › Wired remote control only needed for commissioning (not included)
- › Compatible with 8 and 10 HP SMMS<sub>e</sub> / SMMS<sub>u</sub> outdoor units
- › 1:1 solution – no further indoor units may be connected
- › 0 – 10 V signal of the ventilation control required



ACCESSORIES	DESCRIPTION	DIMENSIONS (HXWXD) (MM)	WEIGHT (KG)	PRICE €
<b>RBC-DXC031</b>	Control unit for capacity control using 0-10 V signal	400 x 300 x 150		<b>1.505,-</b>
<b>MM-DXV141</b>	Valve kit for 11.2 kW, 14.0 kW and 16.0 kW			<b>365,-</b>
<b>MM-DXV281</b>	Valve kit for 22.4 kW and 28.0 kW			<b>365,-</b>





## DX-KIT EXHAUST AIR CONTROLLED

### Capacities & combinations

Can be combined with: MiNi SMMS Single Fan, MiNi SMMSe; SMMSe / SMMSu, SHRMe

CAPACITY (HP)	CONTROL UNIT		PMV VALVE KIT			NOM. CAPACITY (kW)		AIRFLOW (m³/h)	DX-COIL VOLUME (dm³)	
	MM-DXC010	MM-DXC012	MM-DXV080	MM-DXV140	MM-DXV280	COOLING	HEATING	HOURS	MIN.-	HOURS MAX.
2	1		1			5.60	6.30	900	0.85 / 1.00 / 1.15	
2.5	1		1			7.10	8.00	1125	1.06 / 1.25 / 1.44	
3	1		1			8.00	9.00	1320	1.27 / 1.50 / 1.72	
4	1			1		11.20	12.50	1600	1.70 / 2.00 / 2.30	
5	1			1		14.00	16.00	2100	2.12 / 2.50 / 2.87	
6	1			1		16.00	18.00	2800	2.55 / 3.00 / 3.45	
8	1				1	22.40	25.00	3600	3.40 / 4.00 / 4.60	
10	1				1	28.00	31.50	4200	4.25 / 5.00 / 5.75	
12	1	1		2		33.50	37.50	5600	5.10 / 6.00 / 6.90	
14	1	1		1	1	40.00	45.00	6400	5.95 / 7.00 / 8.05	
16	1	1			2	45.00	50.00	7200	6.80 / 8.00 / 9.20	
18	1	1			2	50.40	56.00	7800	7.65 / 9.00 / 10.35	
20	1	1			2	56.00	63.00	8400	8.50 / 10.00 / 11.50	
22	1	2		1	2	61.50	64.00	10000	9.35 / 11.00 / 12.65	
24	1	2			3	67.00	75.00	10800	10.20 / 12.00 / 13.80	
26	1	2			3	73.50	82.50	11400	11.05 / 13.00 / 14.95	
28	1	2			3	78.50	87.50	12000	11.90 / 14.00 / 16.10	
30	1	2			2	85.00	95.00	12600	12.75 / 15.00 / 17.25	
32	1	3			4	90.00	100.00	14400	13.60 / 16.00 / 18.40	
34	1	3			4	95.40	106.50	15000	14.45 / 17.00 / 19.55	
36	1	3			4	101.00	113.00	15600	15.30 / 18.00 / 20.70	
38	1	3			4	106.50	114.00	16200	16.15 / 19.00 / 21.85	
40	1	4			4	112.00	126.00	16800	17.00 / 20.00 / 23.00	
42	1	4			5	117.50	127.00	18600	17.85 / 21.00 / 24.15	
44	1	4			5	123.00	128.00	19200	18.70 / 22.00 / 25.30	
46	1	4			5	130.00	145.00	19800	19.55 / 23.00 / 26.45	
48	1	4			5	135.00	150.00	20400	20.40 / 24.00 / 27.60	
50	1	4			5	140.40	156.00	21000	21.25 / 25.00 / 28.75	
52	1	4			6	146.00	163.00	22800	22.10 / 26.00 / 29.90	
54	1	5			6	151.50	164.00	23400	22.95 / 27.00 / 31.05	
56	1	5			6	157.00	176.00	24000	23.80 / 28.00 / 32.20	
58	1	5			6	162.50	177.00	24600	24.65 / 29.00 / 33.35	
60	1	5			6	168.00	178.00	25200	25.50 / 30.00 / 34.50	

## DX-KIT 0 – 10 V CAPACITY CONTROL

### Capacities & combinations

Can be combined with: exclusively SMMSe / SMMSu 8 and 10 HP single outdoor units

CAPACITY	CONTROL UNIT	PMV VALVE KIT		NOM. CAPACITY (kW)		AIRFLOW (m³/h)	DX-COIL VOLUME (dm³)	
CAPACITY (HP)	RBC-DXC031	MM-DXV141	MM-DXV281	COOLING	HEATING	HOURS	MIN.-	HOURS MAX.
6	1	1		16.00	18.00	3300	1.70 / - / 3.20	
8	1		1	22.40	25.00	4300	3.00 / - / 4.20	
10	1		1	28.00	31.50	5000	3.00 / - / 5.40	

Nominal capacity measuring conditions – COOLING: Indoor temperature +27°C DB / 19°C WB, outdoor temperature +35°C DB, for standard airflow.

Nominal capacity measuring conditions – HEATING: Indoor temperature +20°C DB / +7°C DB, outdoor temperature 6°C DB, for standard airflow.

The SHRMe capacity is specified as nominal cooling and maximum heating.

The standard airflow is a guide value. The required capacity should determine the choice of the PMV valve kit.

The heating and cooling capacities are guide values. The individual design of the air handling unit and DX heat exchanger will affect the actual system capacity.

Operating limits and permitted air conditions are specified in the installation manual.

The pipe volume of the DX heat exchanger should be calculated as described in the installation manual; a tolerance of +/- 10% is permissible.

# Direct expansion kit NEXT



- > Up to 56 kW cooling / heating capacity with a single valve kit
- > A single controller can be configured for all control options:
  - > Regulating the exhaust air or room temperature
  - > Supply air control
  - > 0 – 10 V capacity control
- > Direct expansion kit consisting of control cabinet, PMV kit, and all the necessary sensors
- > For use together with air handling units and air curtains
- > All temperature sensors with 7.5 m length
- > Wired remote control needed for commissioning (not included)
- > Observe the refrigerant volume for 3rd party heat exchangers shown in the data book.
- > For combination with SMMSu, SMMSe, SHRMe outdoor units / Cannot be combined with Mini SMMSe.



Type of control	Supply air, exhaust air, or 0 – 10 V capacity control											Supply air or exhaust air control									
	Single					Twin						Double twin				Triple					
Number of CONTROLLERS	1					1						2				3					
Number of VALVE KITS	1					2						4 (2 x 2)				6 (3 x 2)					
Register version	1 cycle					1 cycle						4 cycles				6 cycles					
Total achievable capacity (kW)	22.40	28.00	33.50	40.00	45.00	50.40	56.00	67.00	80.00	89.50	100.50	112.00	134.00	156.50	179.00	201.00	223.50	234.50	268.00	301.50	335.00
Total achievable capacity (HP)	8	10	12	14	16	18	20	24	28	32	36	40	48	56	64	72	80	84	96	108	120

ACCESSORIES	DESCRIPTION	PRICE €
<b>TCB-IFDMX01UP-E</b>	Controller (without relays)	<b>895,-</b>
<b>TCB-IFDMR01UP-E</b>	Controller (with relays)	<b>1.285,-</b>
<b>RBM-A101UPVA-E</b>	Valve kit 8 to 12 HP (22.4 to 33.5 kW)	<b>640,-</b>
<b>RBM-A201UPVA-E</b>	Valve kit 14 to 20 HP (40.0 to 56.0 kW)	<b>640,-</b>
<b>TCB-IFDES1001P-E</b>	Optional temperature sensor, 10 m cable length	<b>180,-</b>

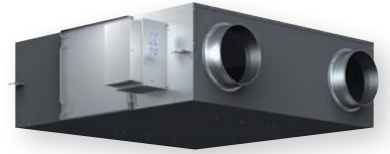




Offices and computer rooms at Windmühlgasse, Vienna, Klimatech Handels- und Service GmbH

# Air-to-air heat exchangers

- Air-to-air cross-flow heat exchanger for stand-alone operation
- Up to 75 % energy recovery
- Optional PCB for external control, alarms, and messages



INDOOR UNIT		VN-M150HE	VN-M250HE	VN-M350HE	VN-M500HE	VN-M650HE	VN-M800HE	VN-M1000HE1	VN-M1500HE1	VN-M2000HE1
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Heat exchanger mode power consumption (min./nom./max.)	W	42/-/78	52/-/138	82/-/182	128/-/238	178/-/290	286/-/383	220/-/396	310/-/590	440/-/792
Airflow (min./nom./max.)	m³/h	110/150/150	155/250/250	210/350/350	390/500/500	520/650/650	700/800/800	700/1000/1000	1200/1500/1500	1400/2000/2000
External static pressure	Pa	47 - 102	28 - 98	65 - 125	62 - 150	61 - 107	76 - 158	70 - 105	80 - 140	70 - 105
Sound pressure level (low/med/high)	dB(A) ❄️	20/25,5/28	21/27/30	27/32/35	26/31/34	31/34/36	33,5/37/38,5	34,5/39,5/40,5	36/40/41,5	36,5/41,5/42,5
Sound pressure level (low/med/high)	dB(A) 🔥	20/25,5/28	21/27/30	27/32/35	26/31/34	31/34/36	33,5/37/38,5	33,0/37,0/38,0	36,0/40,0/41,0	36,5/40,5/41,5
Temperature exchange efficiency (min./nom./max.)	%	81,5/-/83,0	78,0/-/81,5	74,5/-/79,5	76,5/-/78,0	75,0/-/76,5	76,5/-/77,5	73,5/-/77,0	76,5/-/79,0	73,5/-/77,5
Enthalpy exchange efficiency (min./nom./max.)	% 🔥	74,5/-/76,0	70,0/-/74,0	65,0/-/71,5	72,0/-/73,5	69,5/-/71,5	71,0/-/71,5	68,5/-/71,5	71,0/-/73,5	68,5/-/72,0
Enthalpy exchange efficiency (min./nom./max.)	% ❄️	69,5/-/71,0	65,0/-/69,0	60,5/-/67,0	64,5/-/66,5	61,5/-/64,0	64,0/-/65,5	60,5/-/64,5	64,0/-/67,0	60,5/-/65,5
Dimensions (HxWxD)	mm	290 x 900 x 900	290 x 900 x 900	290 x 900 x 900	350 x 1140 x 1140	350 x 1140 x 1140	400 x 1189 x 1189	400 x 1189 x 1189	810 x 1189 x 1189	810 x 1189 x 1189
Air connections diameter	mm	100	150	150	200	200	250	250	250	250
Weight	kg	36	36	38	53	53	70	62	126	126
Price	€	2.310,-	2.365,-	2.535,-	3.235,-	3.850,-	4.465,-	5.075,-	8.440,-	9.740,-

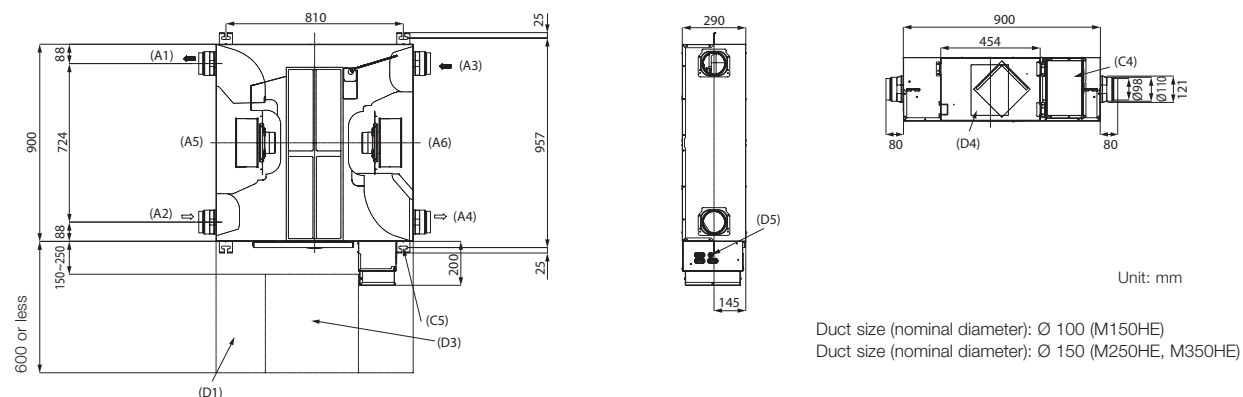
ACCESSORIES	DESCRIPTION	PRICE €
<b>NRC-01HE</b>	Wired remote control	160,-
<b>NRB-1HE</b>	Adapter for digital switching functions: On/Off, bypass, low/high (not for M1000HE1, M1500HE1, M2000HE1 & SMMSu)	160,-
<b>TCB-PCUC2E</b>	Control board for external control, alarms and messages	200,-

You will find all the control options from page 207.

Filter efficiency grade: 82 %  
 Outdoor temperature: -15°C ~ 43°C, 80% relative humidity or below  
 Unit ambient temperature: -10°C ~ +40°C, 80% relative humidity or below  
 Exhaust air temperature: +5°C ~ +40°C, 80% relative humidity or below

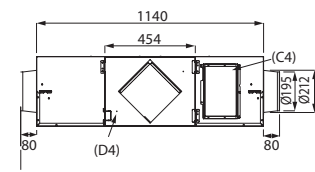
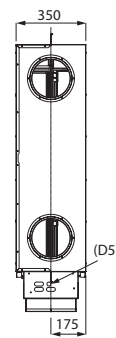
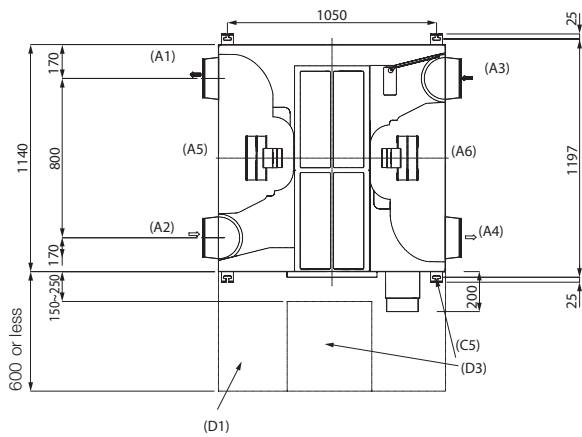
If the temperature of the outdoor air drops below -10°C, the unit switches to "Cold Operation" mode (interruption of the outdoor air supply / bypass mode).  
 The unit cannot be used below -15°C.  
 The fan for the air supply stops; the fan for exhaust air can also be programmed to stop.

## AIR-TO-AIR HEAT EXCHANGERS VN-M150HE TO M350HE





**VN-M500HE, M650HE**

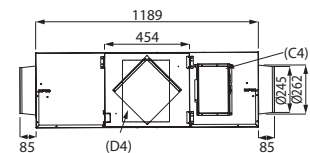
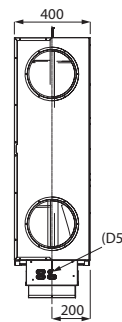
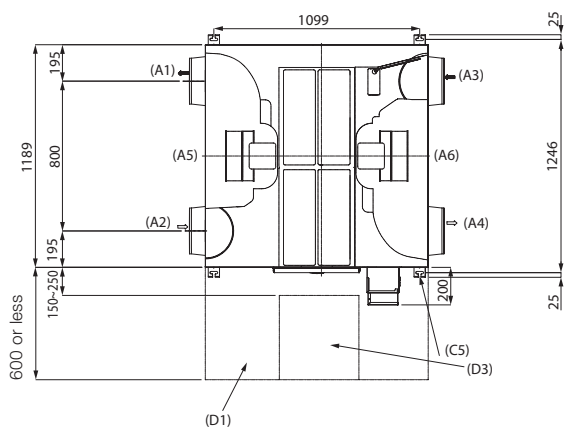


- (A1) FOL (Exhaust air)
- (A2) AUL (Outside air)
- (A3) ABL (Exhaust air)
- (A4) ZUL (Supply air)
- (A5) Outside
- (A6) Inside

channel size (nominal diameter):  
Ø 200

Unit: mm

**VN-M800HE, M1000HE1**

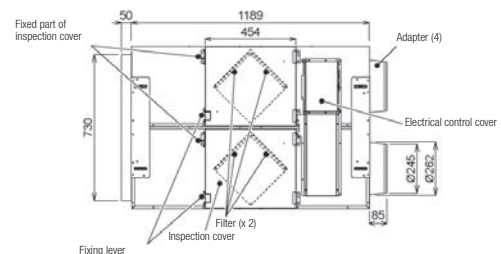
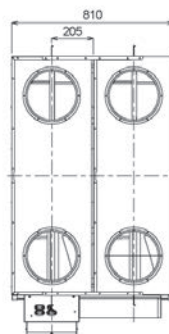
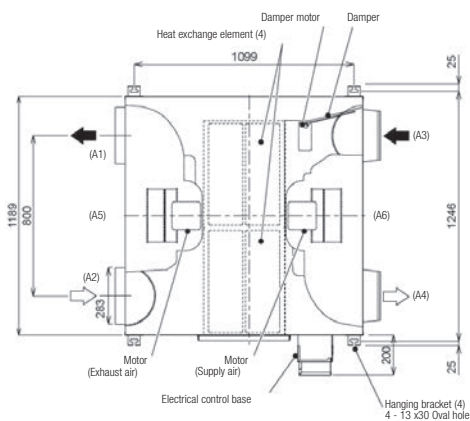


- (C4) Ground wire connection
- (C5) 4-13 x 30 Oval opening (Suspension lug)
- (D1) Filters, motors, fans, Maintenance compartment for heat exchanger
- (D3) Inspection opening min. 450 x 450
- (D4) Connection diagram
- (D5) Input for power connection

channel size (nominal diameter):  
Ø 250

Unit: mm

**VN-M1500HE1, M2000HE1**

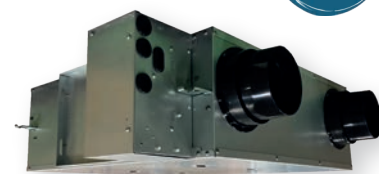


- (A1) FOL (Exhaust air)
- (A2) AUL (Outside air)
- (A3) ABL (Exhaust air)
- (A4) ZUL (Supply air)
- (A5) Outside
- (A6) Inside

Unit: mm



# HRV air-to-air heat exchangers



- › Air-to-air cross-flow heat exchanger for stand-alone operation
- › New chassis in four sizes
- › DC fan motor
- › Wide operating temperature range
- › Enthalpy exchange efficiency of up to 88 %
- › Conforms to the ENTR LOT 6, Tier 2 requirements
- › An optional CO<sub>2</sub> / PM sensor adapts the fan speed to suit the room air quality status
- › Integrated standard air filter
- › Optional high-performance air filter
- › Ventilation control screen with RBC-AMSU52-E / AWSU52-E remote control
- › Display with information about the room air quality, temperatures, and humidity
- › Convenient control of all air handling functions
- › The DC motor provides flexible management of the air volume and automatic stable adaptation of the air volume.
- › An electric air flap on the fresh air inlet and a wind-proof non-return flap on the outgoing air side prevents outdoor air from entering when the unit is switched off.

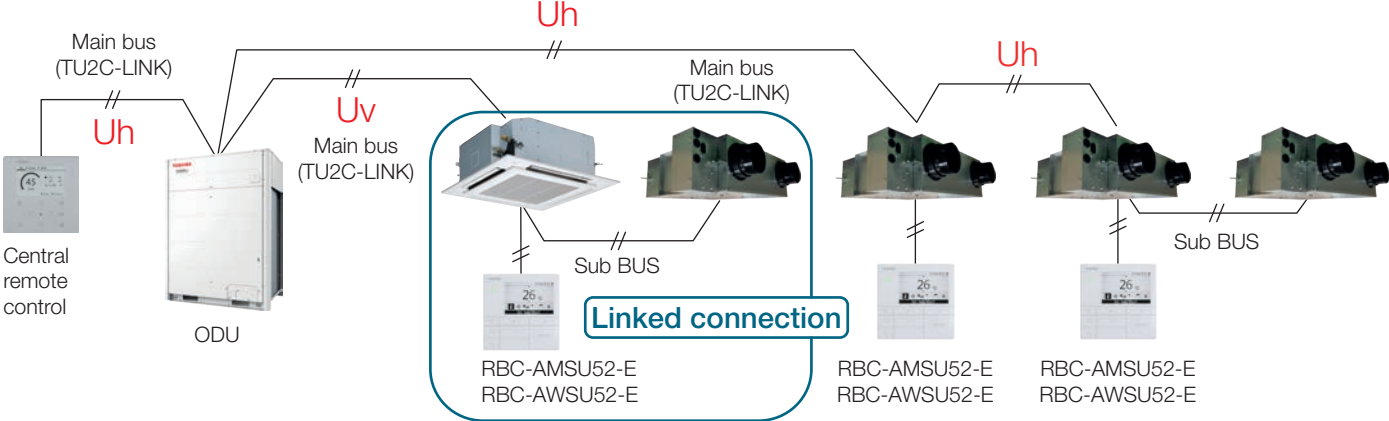
## Versatile air handling options when integrated into SMMSu systems:

- › Operation with delay: Operation of the HRV air handling unit is delayed in 10-minute increments for 10 to 60 minutes.
- › 24-hour ventilation: The HRV air handling unit works continuously, even if the air conditioning system is switched off.
- › Overnight heat removal: Removes hot air from the room in bypass mode and reduces the cooling load in the morning.
- › Automatic ventilation mode: The ventilation mode is automatically switched according to the operating status of the air conditioning system and the information from room and outdoor air temperature sensors in the unit (cooling, heating, drying, fan, or temperature setting).

INDOOR UNIT		VN-U00151SY-E	VN-U00251SY-E	VN-U00351SY-E	VN-U00501SY-E	VN-U00651SY-E	VN-U00801SY-E	VN-U01001SY-E
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Heat exchanger mode power consumption (min./nom./max.)	W	28/35/43/56	29/39/57/75	39/59/92/152	51/60/105/174	55/96/176/306	62/114/196/328	74/151/291/541
Airflow (min./nom./max.)	m <sup>3</sup> /h	73/95/120/150	100/145/210/250	140/210/280/350	260/300/400/500	260/390/520/650	320/480/640/800	400/600/800/1000
External static pressure	Pa	26/43/60/90	06/30/53/75	26/57/100/160	39/45/80/125	29/58/100/150	28/53/92/145	30/60/110/170
Sound pressure level (low/med/high)	dB(A) ❄️	20/22/25/28	20/24/27/28	21/26/31/36	25/27/31/36	24/30/35/39	23/30/35/39	24/33/38/41
Sound pressure level (low/med/high)	dB(A) 🔴	20/22/25/28	20/24/27/28	21/26/31/36	25/27/31/36	24/30/35/39	23/30/35/39	24/33/38/41
Temperature exchange efficiency (min./nom./max.)	%	83,0/83,5/84,5/85,0	80,0/80,5/82,0/84,0	81,0/81,5/84,0/87,0	79,0/79,5/80,0/80,5	77,0/77,5/78,0/79,0	78,0/79,0/84,0/91,0	78,0/78,5/80,0/87,0
Enthalpy exchange efficiency (min./nom./max.)	% 🔴	76,0/80,0/81,0/82,0	75,0/76,0/78,0/81,0	73,0/76,0/80,0/84,0	73,0/76,0/80,0/84,0	70,0/72,0/74,0/76,0	73,0/74,0/80,0/88,0	72,0/73,0/75,0/83,0
Enthalpy exchange efficiency (min./nom./max.)	% ❄️	66,0/73,0/75,0/77,0	65,0/68,0/71,0/75,0	64,0/67,0/71,0/76,0	64,0/66,0/68,0/69,0	60,0/62,0/66,0/69,0	64,0/67,0/73,0/81,0	62,0/63,0/68,0/77,0
Dimensions (HxWxD)	mm	778 x 735 x 278	778 x 735 x 278	880 x 880 x 305	920 x 1020 x 337	920 x 1020 x 337	1130 x 1230 x 386	1130 x 1230 x 386
Air connections diameter	mm	100	150	150	200	200	250	250
Weight	kg	29	29	40	47	47	63	63
Price	€	<b>2.310,-</b>	<b>2.365,-</b>	<b>2.535,-</b>	<b>3.235,-</b>	<b>3.850,-</b>	<b>4.465,-</b>	<b>5.075,-</b>

You will find all the control options from page 207.  
Available from Fall 2023.

SYSTEM CONFIGURATION WITH SMMSu



# Air-to-air heat exchangers and direct expansion heat exchangers with humidifier

- › Air-to-air cross-flow heat exchanger with DX-coil for heating + cooling
- › Up to 75 % energy recovery
- › Not a stock item – lead time on request



INDOOR UNIT		MMD-VN502HEX1E	MMD-VN802HEX1E	MMD-VN1002HEX1E	MMD-VNK502HEX1E	MMD-VNK802HEX1E	MMD-VNK1002HEX1E
Cooling capacity	kW ❄️	4,10	6,56	8,25	4,10	6,56	8,25
Heating capacity	kW 🔥	5,53	8,61	10,92	5,53	8,61	10,92
Power supply	V/Ph+N/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
Temperature exchange efficiency (min./nom./max.)	%	70,5/-/71,5	70/-/72,5	65,5/-/67,5	70,5/-/71,5	70/-/72,5	65,5/-/67,5
Enthalpy exchange efficiency (min./nom./max.)	% ❄️	56,5/-/57,5	56,0/-/59,0	52,0/-/54,0	56,5/-/57,5	56,0/-/59,0	52,0/-/54,5
Enthalpy exchange efficiency (min./nom./max.)	% 🔥	68,5/-/69,0	70,0/-/73,0	66,0/-/68,5	68,5/-/69,0	70,0/-/73,0	66,0/-/68,5
Heat exchanger mode power consumption (min./nom./max.)	W	235/280/300	335/465/505	485/545/550	240/285/305	350/485/530	520/565/575
Running current	A 🔥	1,03/1,24/1,33	1,54/2,14/2,37	2,31/2,51/2,56	1,03/1,24/1,33	1,54/2,14/2,37	2,31/2,51/2,56
Running current	A ❄️	1,03/1,24/1,33	1,54/2,14/2,37	2,31/2,51/2,56	1,03/1,24/1,33	1,54/2,14/2,37	2,31/2,51/2,56
Airflow (min./nom./max.)	m³/h	440/500/500	640/800/800	820/950/950	440/500/500	640/800/800	820/950/950
External static pressure	Pa	105 - 120	100 - 120	105 - 135	85 - 95	85 - 105	90 - 115
Airflow limit	m³/h	440 - 500	640 - 800	820 - 950	440 - 500	640 - 800	820 - 950
Humidification capacity	kg/h	3,0	5,0	6,0	3,0	5,0	6,0
Humidification water pressure	bar	0,2 - 4,9	0,2 - 4,9	0,2 - 4,9	0,2 - 4,9	0,2 - 4,9	0,2 - 4,9
Sound pressure level (low/med/high)	dB(A) 🔥	34,5/36,5/37,5	38/40/41	40/42/43	33,5/35,5/36,5	38/39/40	39/41/42
Sound pressure level (low/med/high)	dB(A) ❄️	34,5/36,5/37,5	38/40/41	40/42/43	33,5/35,5/36,5	38/39/40	39/41/42
Liquid pipe diameter	mm (inch)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)	6,4 (¼)
Suction gas pipe diameter	mm (inch)	9,5 (3/8)	12,7 (½)	12,7 (½)	9,5 (3/8)	12,7 (½)	12,7 (½)
Condensate pipe diameter	mm	25	25	25	25	25	25
Water connection	Inch	1/2	1/2	1/2	1/2	1/2	1/2
Dimensions (HxWxD)	mm	430 x 1140 x 1690	430 x 1189 x 1739	430 x 1189 x 1739	430 x 1140 x 1690	430 x 1189 x 1739	430 x 1189 x 1739
Air connections diameter	mm	200	250	250	200	250	250
Weight	kg	84	100	101	91	111	112
<b>Price</b>	<b>€</b>	<b>5.830,-</b>	<b>7.000,-</b>	<b>8.160,-</b>	<b>7.755,-</b>	<b>10.430,-</b>	<b>12.080,-</b>

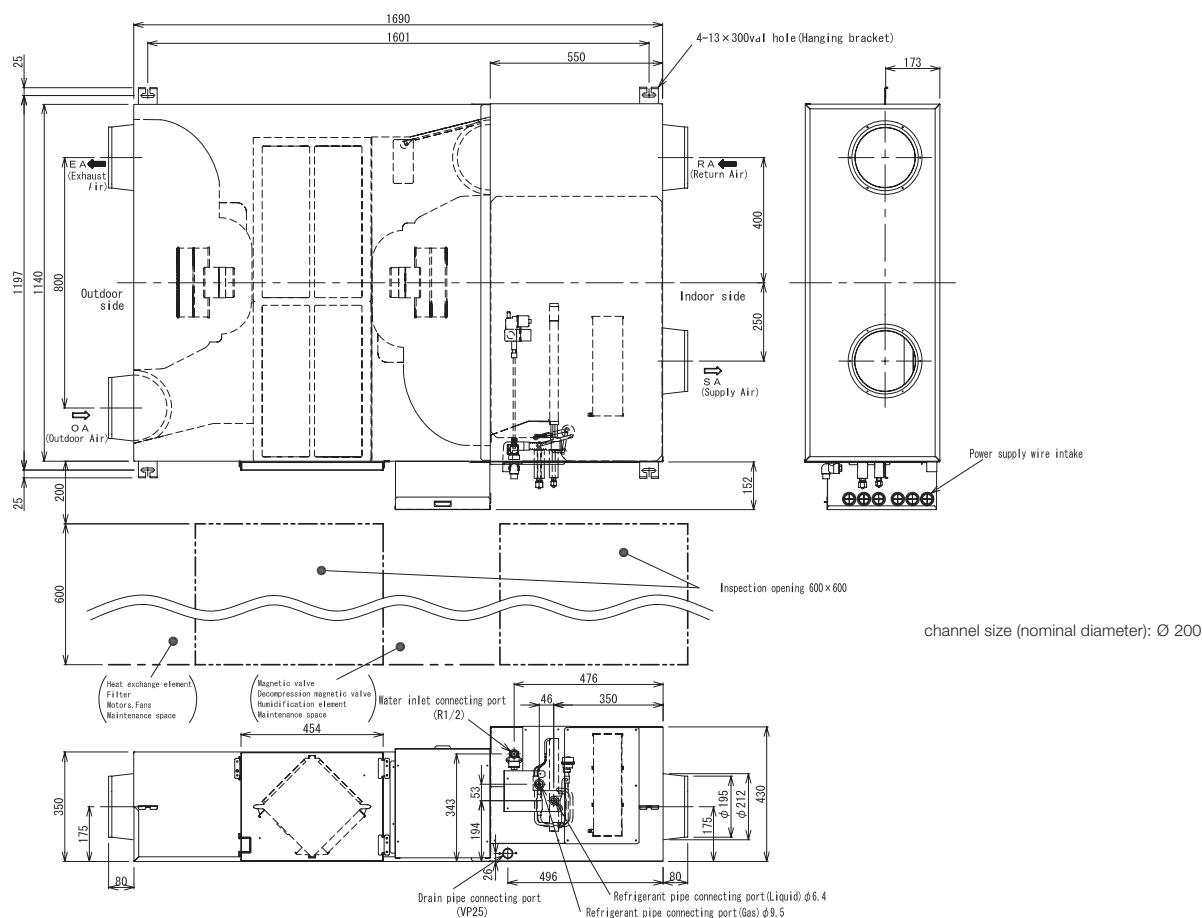
ACCESSORIES	DESCRIPTION	PRICE €
<b>NRC-01HE</b>	Wired remote control	<b>160,-</b>
<b>TCB-DP31HEXE</b>	Drain pump for all ventilation systems	<b>925,-</b>
<b>NRB-1HE</b>	Adapter for digital switching functions: On/Off, bypass, low/high (not for M1000HE1, M1500HE1, M2000HE1 & SMMSu)	<b>160,-</b>

You will find all the control options from page 207.

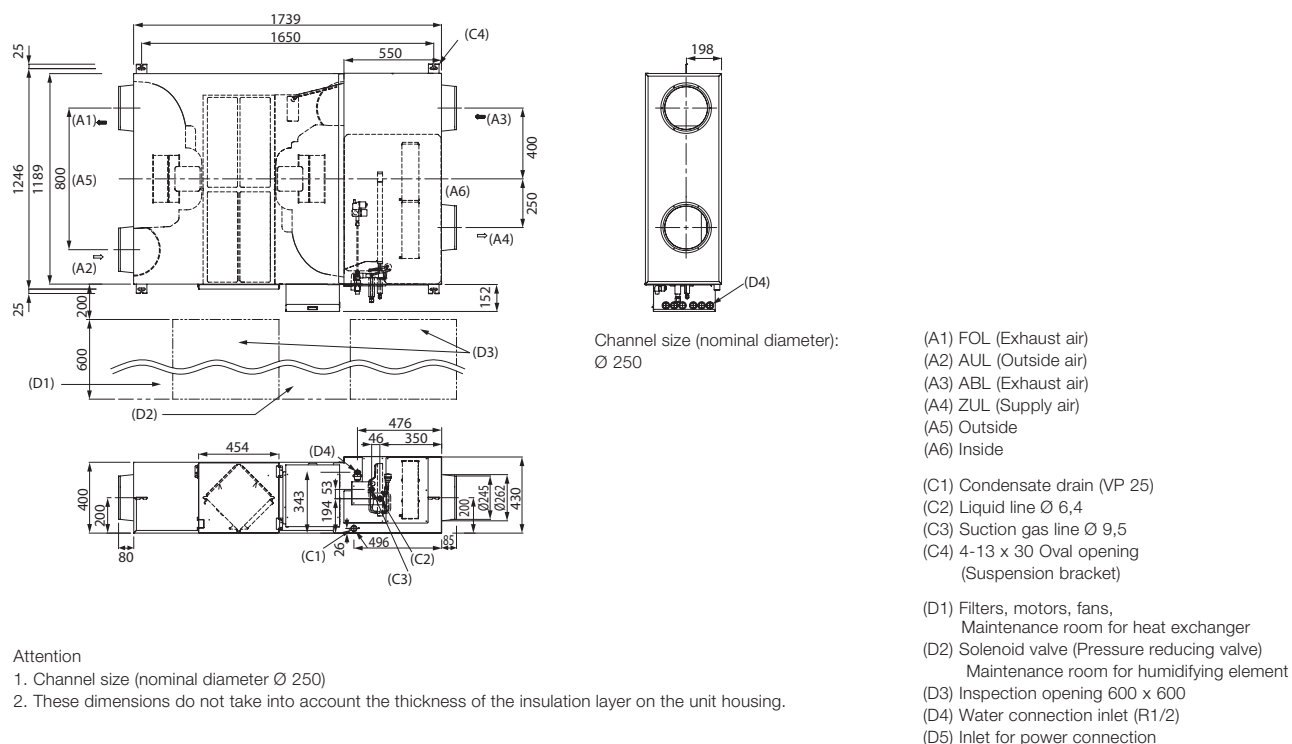
Filter efficiency grade: 82 %  
 Outdoor temperature: -15°C ~ 43°C, 80% relative humidity or below  
 Unit ambient temperature: -10°C ~ +40°C, 80% relative humidity or below  
 Exhaust air temperature: +5°C ~ +40°C, 80% relative humidity or below

If the temperature of the outdoor air drops below -10°C, the unit switches to "Cold Operation" mode (interruption of the outdoor air supply / bypass mode).  
 The unit cannot be used below -15°C.  
 The fan for the air supply stops; the fan for exhaust air can also be programmed to stop.

## AIR-TO-AIR HEAT EXCHANGERS AND DIRECT EXPANSION HEAT EXCHANGERS (WITH DEHUMIDIFICATION) MMD-VN(K)502HEX1E



## MMD-VN(K)802HEX1E AND MMD-VN(K)1002HEX1E



Attention  
 1. Channel size (nominal diameter  $\phi$  250)  
 2. These dimensions do not take into account the thickness of the insulation layer on the unit housing.

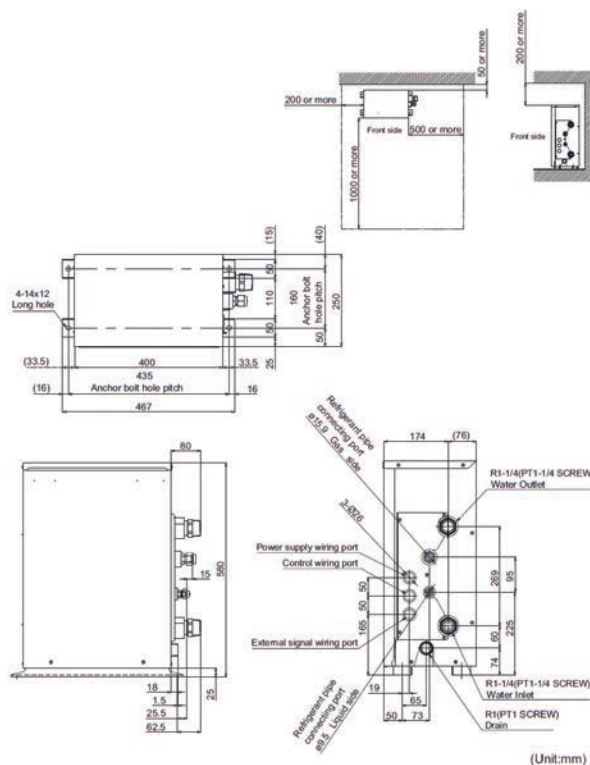
# Hot water module MT (2 & 3-pipe)

- Efficient preparation of hot water for room heating + domestic hot water
- Hot water preparation up to +50°C.



INDOOR UNIT SMMSu		MMW-UP0271LQ-E		MMW-UP0561LQ-E	
Heating capacity	kW	☀	8,00		16,00
Power consumption (min./nom./max.)	kW	☀	0,014		0,014
Running current	A	☀	0,08		0,08
Sound pressure level (low/med/high)	dB(A)	☀	25,0		27,0
Water flow rate (standard)	m³/h		1,37		2,75
Water flow rate (min.)	m³/h		1,17		2,33
Pressure loss (standard water flow rate)	bar		0,40		0,44
Operating range, indoor, DB (min.-max.)	°C		+5 / +32		+5 / +32
SMMS-e operating range, outdoor, DB (min.-max.)	°C		-25 / +21		-25 / +21
SMMS-e operating range, outdoor, WB (min.-max.)	°C		-25 / +19		-25 / +19
SHRM-e operating range, outdoor, DB (min.-max.)	°C		-25 / +40		-25 / +40
SHRM-e operating range, outdoor, WB (min.-max.)	°C		-25 / +28		-25 / +28
Water inlet operating range (min.-max.)	°C		+15 / +45		+15 / +45
Water outlet operating range (min.-max.)	°C		+25 / +50		+25 / +50
Water connection	Inch		1 ¼		1 ¼
Liquid pipe diameter	mm (inch)		9,5 (3/8)		9,5 (3/8)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)		15,9 (5/8)
Condensate pipe diameter	mm		25		25
Power supply	V/Ph+N/Hz		220-240/1/50		220-240/1/50
Dimensions (HxWxD)	mm		580 x 400 x 250		580 x 400 x 250
Weight	kg		17,80		20,30
Price	€		<b>4.390,-</b>		<b>4.515,-</b>

Nominal conditions: Incoming heat exchanger temperature 30°C, outlet temperature 35°C, outdoor temperature 7°C DB / 6°C WB



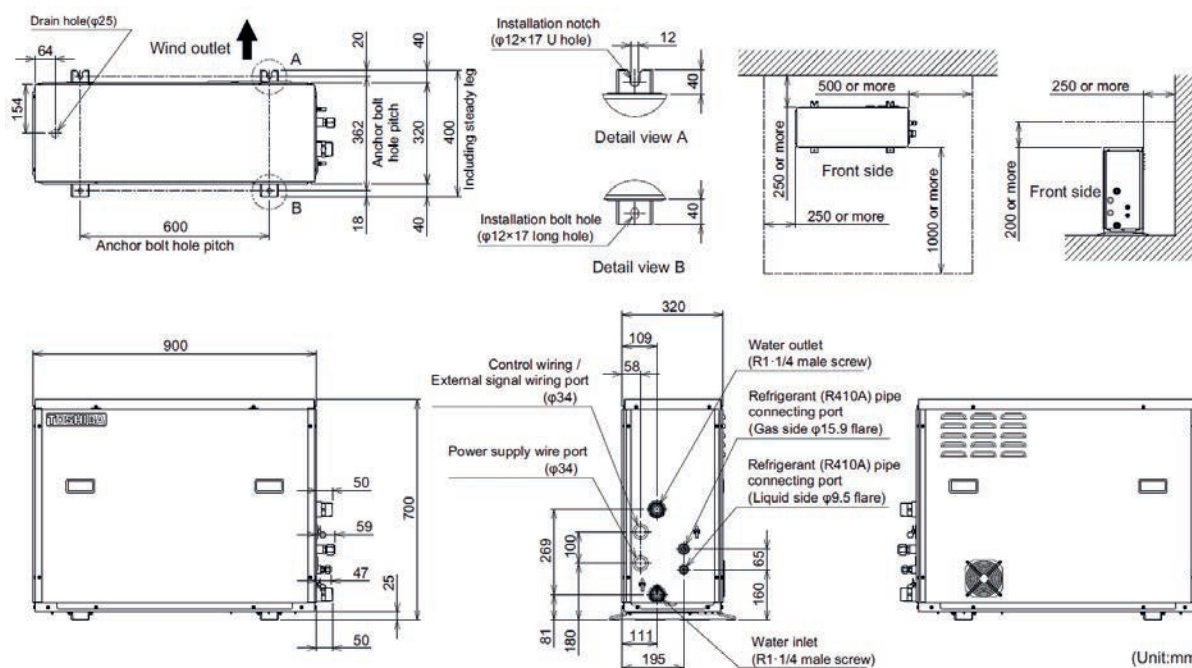


# Hot water module HT (3-pipe)

- Efficient preparation of hot water for room heating + domestic hot water
- Hot water preparation up to +82°C via cascade
- Compatible with SHRMe outdoor units



INDOOR UNIT		MMW-AP0481CHQ-E	
Heating capacity	kW	☀	14,00
Power consumption (min./nom./max.)	kW	☀	- / - / 4,15
Sound pressure level (low/med/high)	dB(A)	☀	44,0
Water flow rate (standard)	m³/h		2,40
Water flow rate (min.)	m³/h		2,00
Pressure loss (standard water flow rate)	bar		0,15
SHRM-e operating range, outdoor, DB (min.-max.)	°C		-25 / +40
SHRM-e operating range, outdoor, WB (min.-max.)	°C		-25 / +28
Water outlet operating range (min.-max.)	°C		+50 / +82
Water connection	Inch		1 ¼
Liquid pipe diameter	mm (inch)		9,5 (3/8)
Suction gas pipe diameter	mm (inch)		15,9 (5/8)
Condensate pipe diameter	mm		15
Running current (max.)	A		17,50
Power supply	V/Ph+N/Hz		220-240/1/50
Recommended fusing	A		20
Cascade refrigerant			R134a
Cascade charge	kg		2,1
Dimensions (HxWxD)	mm		700 x 900 x 320
Weight	kg		100
<b>Price</b>	€		<b>10.635,-</b>

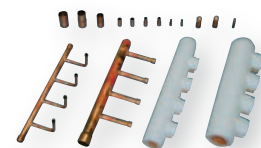








## SMMSu / MiNi SMMSe / SHRMa (2-pipe system) branches



### Y-branch (two per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
<b>RBM-BY55E</b>	Y-branch for indoor units (2-pipe system)	< 18	< 6,4	<b>130,-</b>
<b>RBM-BY105E</b>	Y-branch for indoor units (2-pipe system)	18 - < 56	6,4 - < 20,2	<b>145,-</b>
<b>RBM-BY205E</b>	Y-branch for indoor units (2-pipe system)	56 - < 70,5	20,2 - < 25,2	<b>250,-</b>
<b>RBM-BY305E</b>	Y-branch for indoor units (2-pipe system)	≥ 70,5	≥ 25,2	<b>315,-</b>
<b>RBM-BY405E</b>	Y-branch for indoor units (2-pipe system) (SMMSu)	≥ 170	≥ 61,2	<b>475,-</b>

### 4/8-branch (two per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
<b>RBM-HY1043E</b>	4-way branch for indoor units (2-pipe system)	< 40	< 14,2	<b>300,-</b>
<b>RBM-HY2043E</b>	4-way branch for indoor units (2-pipe system)	40 - < 70,5	14,2 - < 25,2	<b>320,-</b>
<b>RBM-HY1083E</b>	8-way branch for indoor units (2-pipe system)	< 40	< 14,2	<b>475,-</b>
<b>RBM-HY2083E</b>	8-way branch for indoor units (2-pipe system)	40 - < 70,5	14,2 - < 25,2	<b>555,-</b>

### Connection kit (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
<b>RBM-BT14E</b>	Y-connection kit for outdoor units (2-pipe system)	< 73	< 26	<b>400,-</b>
<b>RBM-BT24E</b>	Y-connection kit for outdoor units (2-pipe system)	> 73	> 26	<b>455,-</b>
<b>RBM-BT34E</b>	Y-connection kit for outdoor units (2-pipe system) (SMMSu)	≥ 128,5	≥ 46	<b>715,-</b>

## SHRMe / SHRMa (3-pipe system) branches



### Y-branch (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
<b>RBM-BY55FE</b>	Y-branch for indoor units (3-pipe system)	< 18	< 6,4	<b>180,-</b>
<b>RBM-BY105FE</b>	Y-branch for indoor units (3-pipe system)	18 - < 40	6,4 - < 14,2	<b>205,-</b>
<b>RBM-BY205FE</b>	Y-branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	<b>290,-</b>
<b>RBM-BY305FE</b>	Y-branch for indoor units (3-pipe system)	≥ 70,5	≥ 25,2	<b>395,-</b>

### 4/8-branch (three per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
<b>RBM-HY1043FE</b>	4-way branch for indoor units (3-pipe system)	< 40	< 14,2	<b>555,-</b>
<b>RBM-HY2043FE</b>	4-way branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	<b>590,-</b>
<b>RBM-HY1083FE</b>	8-way branch for indoor units (3-pipe system)	< 40	< 14,2	<b>740,-</b>
<b>RBM-HY2083FE</b>	8-way branch for indoor units (3-pipe system)	40 - < 70,5	14,2 - < 25,2	<b>800,-</b>

### Connection kit (four per packaging unit)

ACCESSORIES	DESCRIPTION	CONNECTABLE CAPACITY (KW)	CONNECTABLE CAPACITY (HP)	PRICE €
<b>RBM-BT14FE</b>	Y-connection kit for outdoor units (3-pipe system)	< 73	< 26	<b>400,-</b>
<b>RBM-BT24FE</b>	Y-connection kit for outdoor units (3-pipe system)	> 73	> 26	<b>475,-</b>

# Wiring / electrical installation

## GENERAL

- › Connection of the power supply in accordance with the specifications of the local energy supplier.
- › Connection of the power supply to the indoor unit and wiring for the indoor and outdoor units are described in the indoor unit installation instructions.
- › Never apply voltage across U1/U2, U3/U4, U5/U6!
- › Run electrical cables so that they do not touch any hot parts.
- › After connecting the distributor box, remove the flap and fix the cables with cable ties.
- › During the evacuation stage, do not supply power to the indoor unit.

## SUMMARY OF THE ELECTRICAL INSTALLATION WORK

### EXTERNAL POWER CONNECTION

- › Carry out the electrical installation work in accordance with the applicable standards.

### INTERNAL POWER CONNECTION

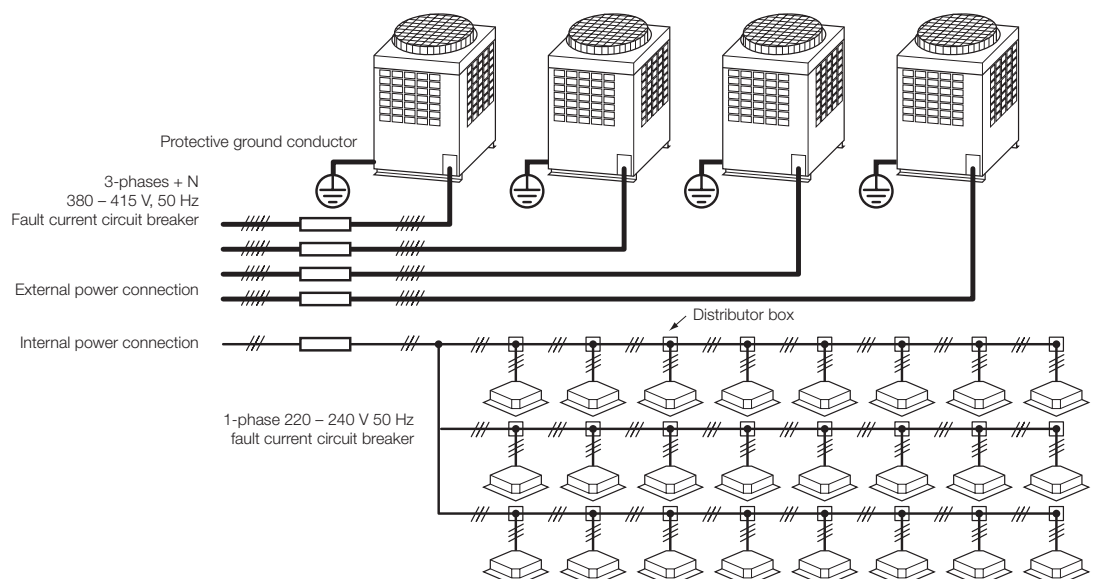
- › Base the electrical installation on the total current of the indoor units.
- › The wire cross-section is determined by the length.

### CONTROL CABLES

- › Control cables:
  - Between outdoor and indoor units
  - Between indoor unit and remote control, central control unit, building management system
- › Wire cross-sections depend on the length

## POWER SUPPLY LINES

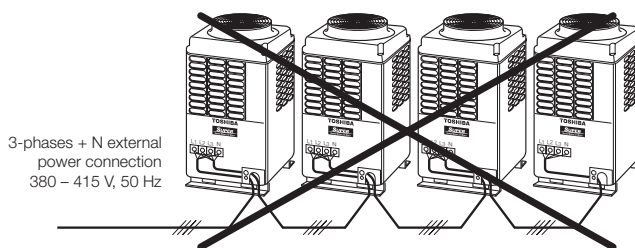
- › Piping dimensioning must conform to local and national regulations.
- › Define the piping dimensioning for an indoor unit according to the number of indoor units connected downstream of it.



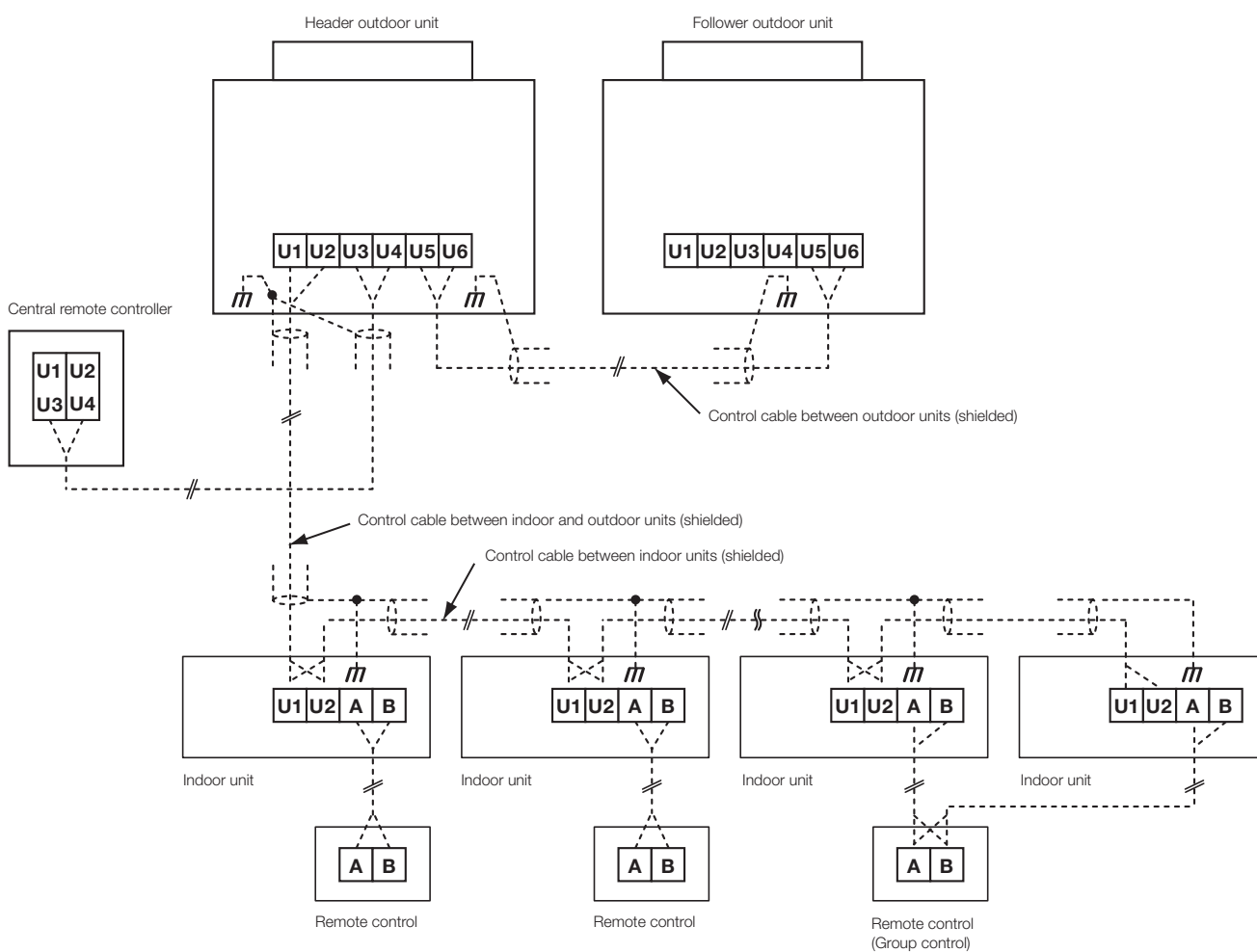
Designations of the bus connections correspond to SMMSe.  
 For SMMSu systems:  
 Outdoor unit -> indoor units: U1, U2 becomes Uv  
 Central remote controller: U3, U4 becomes Uh  
 Outdoor unit -> outdoor unit: U5, U6 becomes Uc

## POWER SUPPLY TO OUTDOOR UNIT

- Define the power connection and fusing of each outdoor unit according to the following specification:  
Cables in compliance with design 60245 IEC 6
- When connecting outdoor units, do not run electrical cables on top of one another; use a distributor box (L1, L2, L3, N)



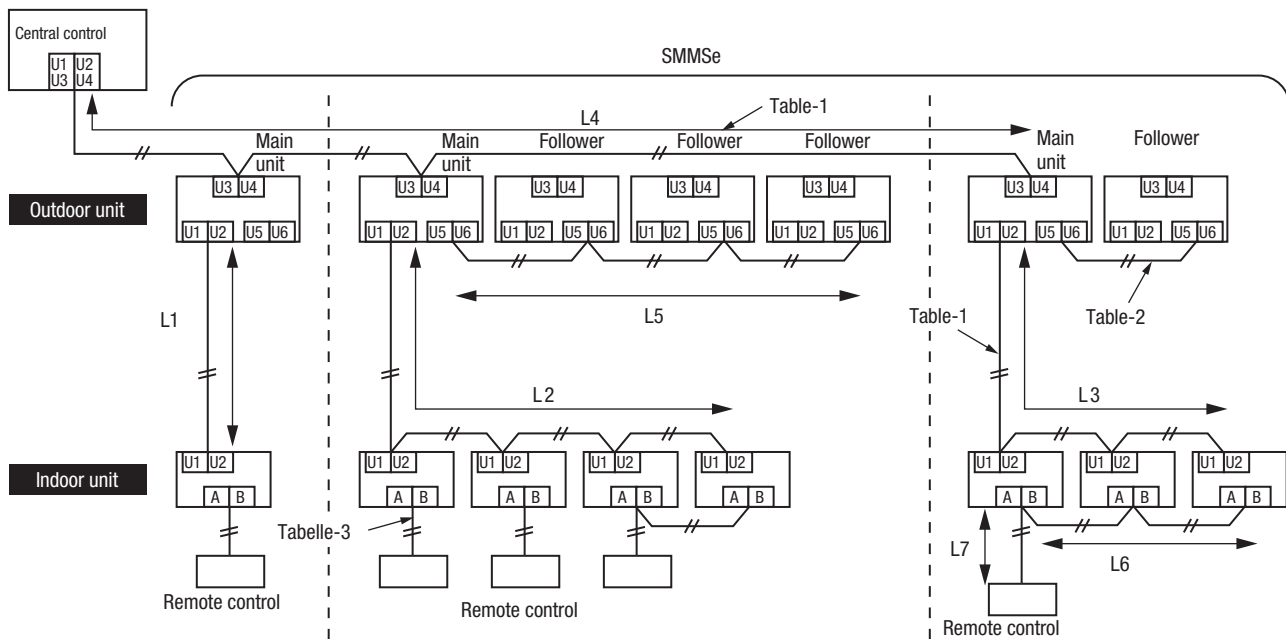
## BUS LINE DESIGN



Designations of the bus connections correspond to SMMSe.  
For SMMSu systems:  
Outdoor unit -> indoor units: U1, U2 becomes Uv  
Central remote controller: U3, U4 becomes Uh  
Outdoor unit -> outdoor unit: U5, U6 becomes Uc



## RESTRICTION OF THE COMMUNICATIONS WIRING



Control cable between indoor and outdoor units (L1, L2, L3) Central control cable (L4)	
Wiring	2-pole line, no polarity
Type	Shielded, flexible
Size / length	1.25 mm <sup>2</sup> : up to 1,000 m / 2.0 mm <sup>2</sup> : up to 2,000 m (*)

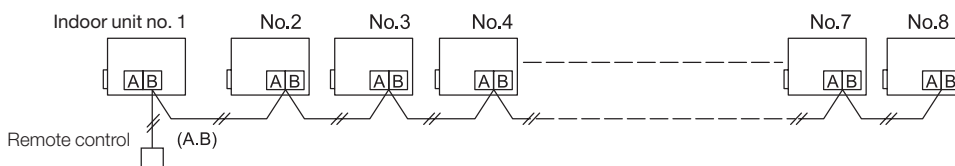
Control cable between outdoor units (L5)	
Wiring	2-pole line, no polarity
Type	Shielded, flexible
Size / length	1.25 mm <sup>2</sup> to 2.0 mm <sup>2</sup> / up to 100 m (L5)

Note (\*): Total length of all control cables for all refrigerant circuits  
(L1 + L2 + L3 + L4)

Remote control cable (L6, L7)	
Cable	2-pole
Dimensions	0.5 mm <sup>2</sup> to 2.0 mm <sup>2</sup>
Size / length	➤ Up to 500 m (L6 + L7)
	➤ Up to 400 m for a wireless remote control for group control.
	➤ Up to 200 m total length for control cables between indoor units (L6).

## GROUP CONTROL BY REMOTE CONTROL

➤ Group control of several indoor units (8 units) with a wired remote control







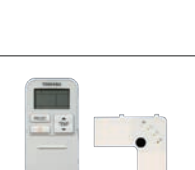






Designations of the bus connections correspond to SMMSe.  
For SMMSu systems:  
Outdoor unit -> indoor units: U1, U2 becomes Uv  
Central remote controller: U3, U4 becomes Uh  
Outdoor unit -> outdoor unit: U5, U6 becomes Uc

# Local wired remote controls





	TYPE / DESCRIPTION	PRICE €	
	<p><b>RBC-AS41E</b> Simplified wired remote control</p> <ul style="list-style-type: none"> <li>To control all main functions of an indoor unit, or a group of up to 8 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>DN codes cannot be set</li> </ul>	150,-	
	<p><b>RBC-AMTU31-E</b> Standard Wired Remote Control</p> <ul style="list-style-type: none"> <li>To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>168 hour On/Off timer</li> <li>DN codes can be set</li> </ul>	150,-	
	<p><b>RBC-AMS41E</b> Wired remote control with integrated weekly timer</p> <ul style="list-style-type: none"> <li>To control all the functions of an indoor unit, or a group of up to 8 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>Weekly timer integrated, 8 events/day, 6 parameters/event can be programmed</li> <li>DN codes can be set</li> </ul>	160,-	
	<p><b>RBC-ASCU11-E</b> Compact wired remote control</p> <ul style="list-style-type: none"> <li>Simline version of standard wired remote control</li> <li>To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>Off timer</li> <li>DN codes can be set</li> </ul>	110,-	
	<p><b>RBC-AMSU51-ES</b> Comfort wired remote control with backlit display</p> <ul style="list-style-type: none"> <li>To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>Weekly timer, soft keys, night operation, louver lock, key lock</li> <li>Energy monitoring in conjunction with Super Digital Inverter outdoor units</li> <li>DN codes can be set</li> </ul>	205,-	
	<p><b>RBC-AMSU52-E</b> Wired comfort remote control PLUS</p> <ul style="list-style-type: none"> <li>Design &amp; function update for the wired comfort remote control</li> <li>For controlling all the functions of an indoor unit or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>DN codes can be set</li> <li>Comfort control for server room functions</li> <li>Ventilation control screen for HRV heat exchangers</li> </ul>	205,-	
	<p><b>RBC-AWSU52-E</b> Wired comfort remote control PLUS BT</p> <ul style="list-style-type: none"> <li>Design &amp; function update for the wired comfort remote control</li> <li>With BLUETOOTH support for smartphones</li> <li>For controlling all the functions of an indoor unit or a group of up to 16 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>DN codes can be set</li> </ul>	225,-	 
	<p><b>RBC-MTSC1</b> Local touch lite remote control</p> <ul style="list-style-type: none"> <li>To control all the functions of an indoor unit, or a group of up to 8 indoor units</li> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>Controlled via 4.5" color touch display</li> <li>Personalized graphics for screen &amp; logo via upload (480x272)</li> <li>DN codes can be set</li> <li>Not a stock item - lead time on request</li> </ul>	515,-	
	<p><b>TCB-TC41U-E</b> Remote Temperature Sensor</p> <ul style="list-style-type: none"> <li>Compatible with all indoor units that have an A/B remote control bus</li> <li>When exact temperature measurement is not possible using the sensor in the indoor unit or in the wired remote control.</li> <li>Takes priority over the unit and remote control sensor</li> </ul>	135,-	

# Local infrared remote controls

TYPE / DESCRIPTION	PRICE €
 <p><b>RBC-AXU31-E</b> Infrared remote control with external receiver kit for all indoor units</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	460,-
 <p><b>RBC-AXU31C-E</b> Infrared remote control + receiver kit for installation in ceiling unit</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	375,-
 <p><b>RBC-AXU31UW-E</b> Infrared remote control + receiver kit for installation in 2-way cassette</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units.</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	375,-
 <p><b>RBC-AX33UYP-E</b> Infrared remote control + receiver kit for installation in 1-way cassette (SMMSu)</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	85,-
 <p><b>RBC-AXU31UM-E</b> Infrared remote control + receiver kit for installation in 60x60 slim cassette (SMMSu)</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	180,-
 <p><b>RBC-AXU41U-E</b> Infrared remote control + receiver kit for installation in VRF TU2C Smart Cassette</p>	315,-
 <p><b>RBC-AXU33UP-E</b> Infrared remote control + receiver kit for installation in FLAT Panel 4-way standard cassette</p>	230,-
 <p><b>RBC-AXU31U-E</b> Infrared remote control + receiver kit for installation in 4-way standard cassette</p> <ul style="list-style-type: none"> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Function range same as RBC-AMTU31-E, but wireless.</li> <li>• DN codes cannot be set</li> </ul>	325,-

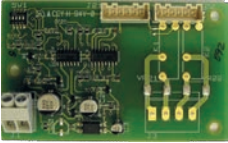



	TYPE / DESCRIPTION	PRICE €
	<p><b>TCB-SIR41UM-E</b> Occupancy sensor kit for installation in 60x60 slim cassette</p> <ul style="list-style-type: none"> <li>• Automatic motion detection in room</li> <li>• If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode</li> <li>• Requires RBC-AMSU51-ES wired remote control</li> <li>• Required for every cassette in the group in the case of group control</li> </ul>	130,-
	<p><b>TCB-SIR41U-E</b> Occupancy sensor kit for installation in smart cassette</p> <ul style="list-style-type: none"> <li>• Automatic motion detection in room</li> <li>• If no one is detected for 60 minutes, the indoor unit switches automatically into OFF or Standby mode</li> <li>• Requires RBC-AMSU51-ES wired remote control</li> <li>• Required for every cassette in the group in the case of group control</li> </ul>	130,-
	<p><b>TCB-SIR33UP-E</b> Occupancy sensor kit for installation in FLAT Panel</p>	130,-

# Mobile / APP / KNX® control options

	TYPE / DESCRIPTION	PRICE €
	<p><b>RBC-Combi Control</b> Module to control the main functions via SMS or an app (SIM card required)</p> <ul style="list-style-type: none"> <li>• To control the main functions such as on/off, operating mode, temperature and fan speed, plus alarms in the event of a power blackout or when temperature is too high/too low</li> <li>• Compatible with all indoor units that have a standard infrared remote control</li> <li>• Free app for iOS or Android</li> </ul>	635,-
	<p><b>AP-IR-WIFI-1</b> WiFi module to control all functions of an indoor unit using an app on a cell phone</p> <ul style="list-style-type: none"> <li>• Temperature and humidity alarm configurable</li> <li>• Compatible with all indoor units that have a standard infrared remote control</li> <li>• WLAN and internet access required</li> <li>• Free app for iOS or Android</li> <li>• Not a stock item - lead time on request</li> <li>• for cassette + duct unit only</li> </ul>	380,-
	<p><b>TO-RC-WIFI-1</b> WiFi module to control all functions of an indoor unit using an app or an internet browser</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• WLAN and internet access required</li> <li>• Free app for iOS or Android</li> </ul>	610,-
	<p><b>TO-RC-KNX-1i</b> Module for controlling all the functions of an indoor unit via the KNX® Bus.</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• KNX® bus system required</li> </ul>	590,-



# Local control options

	TYPE / DESCRIPTION	PRICE €
	<p><b>TCB-IFCB5-PE</b> External on/off PCB, window contact module</p> <ul style="list-style-type: none"> <li>• Potential-free contact for on/off and window contact input.</li> <li>• Remote ON/OFF function</li> </ul>	75,-
	<p><b>TCB-PX100-PE</b> Casing for outdoor installation of window contact module for high-wall units</p>	50,-
	<p><b>TCB-PX30MUE</b> Casing for indoor installation for 4-way standard cassette</p>	135,-
	<p><b>TCB-PX40MUME</b> Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette</p>	135,-
	<p><b>TCB-PCUC2E</b> Control board for external control, alarms and messages</p> <ul style="list-style-type: none"> <li>• Compatible with ceiling unit, high pressure duct unit series 4, 60x60 cassette, 4-way standard cassette, SMART cassette and VN-M heat exchanger</li> <li>• Connection to CN521</li> <li>• 3 analog inputs</li> <li>• 3 potential-free digital inputs/outputs</li> <li>• Input and output functions configurable via rotary switch</li> </ul>	200,-
	<p><b>TCB-PX30MUE</b> Casing for indoor installation for 4-way standard cassette</p>	135,-
	<p><b>TCB-PX40MUME</b> Casing for: PC board for external control, TCC link interface, window contact PC board for 60x60 slim cassette, 4-way standard cassette, SMART cassette</p>	135,-
	<p><b>TCB-IFCB-4E2</b> Operating, error signal, remote On/Off module</p> <ul style="list-style-type: none"> <li>• Operating and error signal output</li> <li>• Can be connected to the master unit of a group to handle the I/O control and error messages of up to 16 indoor units</li> <li>• For connecting to a CN61</li> <li>• Potential-free contact</li> </ul>	475,-
	<p><b>RBC-FDP3-PE</b> Analog Interface</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• Controls all main functions via 0-10V signals or fixed resistors</li> <li>• Operating and error signal output</li> <li>• Modbus connection possible</li> </ul>	760,-
	<p><b>RBC-FDP3-Modbus</b> Modbus Interface</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• Control of all main functions</li> <li>• Facilitates the addressing of up to 64 interfaces in an RS485 network to control multi-zone systems</li> <li>• Read out of all error codes possible</li> </ul>	535,-
	<p><b>TO-RC-BAC-2</b> BACnet® 1:1 interface</p> <ul style="list-style-type: none"> <li>• Compatible with all indoor units that have an A/B remote control bus</li> <li>• Control of all main functions</li> <li>• To control all the functions of an indoor unit, or a group of up to 16 indoor units</li> <li>• Not a stock item - lead time on request</li> </ul>	850,-




# Central control options

	TYPE / DESCRIPTION	PRICE €
	<p><b>TCB-SC640U-E</b> Central remote control</p> <ul style="list-style-type: none"> <li>• To control up to 64 indoor units.</li> <li>• Control of all device functions</li> <li>• Weekly timer</li> <li>• Uses central addresses</li> </ul>	1.465,-
	<p><b>BMS-SM1281ETLE</b> Smart Manager with Energy Billing</p> <ul style="list-style-type: none"> <li>• Controls up to 128 indoor units</li> <li>• Web interface for convenient PC control via browser</li> <li>• Additional control and energy-saving functions</li> <li>• Energy monitoring and billing (energy monitoring relay interface, locally provided pulse counter, Windows PC with Excel required)</li> <li>• Uses central addresses</li> <li>• Commissioning with "Setting File Creation" software</li> </ul>	3.300,-
	<p><b>BMS-CT2560U-E</b> Smart Manager TOUCH with energy billing</p> <ul style="list-style-type: none"> <li>• Controlled via 7" color touch screen</li> <li>• Controls up to 256 (128) indoor units</li> <li>• Function range same as Smart Manager</li> <li>• Direct connection of up to 8 pulse counters without energy monitoring relay interface*</li> <li>• Uses central addresses</li> <li>• Commissioning with "Setting File Creation" software</li> </ul>	5.730,-
	<p><b>BMS-IFWH5E</b> Energy monitoring relay interface // OPTIONAL accessories - touch screen controller</p> <ul style="list-style-type: none"> <li>• Required for use of the energy monitoring and billing functions</li> <li>• A maximum of 8 locally provided pulse counters can be connected to each interface</li> <li>• Power meter requirement: max. 10 pulses per kWh</li> </ul>	960,-
	<p><b>BMS-IFDD03E</b> Digital In/Out relay interface // OPTIONAL accessories - touch screen controller</p> <ul style="list-style-type: none"> <li>• Expansion with 8 inputs and 4 outputs</li> <li>• Not a stock item - lead time on request</li> </ul>	1.035,-
	<p><b>TCB-TSC640-PY</b> Touch Screen Controller 64</p> <ul style="list-style-type: none"> <li>• Controls up to 64 indoor units</li> <li>• Controlled via 7" color touch screen</li> <li>• Multilingual user interface</li> <li>• Building overview</li> <li>• Connected to U3/U4 via supplied gateway</li> <li>• TCS Net relay interface not required</li> <li>• No setting file required for commissioning</li> <li>• Additional control and energy-saving functions</li> <li>• Freely programmable time switch function</li> </ul>	3.390,-



\* Replacement for: BMS-CT2560U-E

# Central control options

	TYPE / DESCRIPTION	PRICE €
	<p><b>BMS-IWF0320E</b> Small central APP 32</p> <ul style="list-style-type: none"> <li>• Controls up to 32 indoor units.</li> <li>• Connection via TCC link</li> <li>• Internet/intranet access required</li> <li>• Free app for iOS or Android</li> </ul>	<p>2.265,-</p>
	<p><b>BMS-CT5121E</b> Touch screen controller with energy billing</p> <ul style="list-style-type: none"> <li>• Controls up to 512 indoor units</li> <li>• Controlled via 12.1" multi-touch screen, resolution 1024x768</li> <li>• Additional control and energy-saving functions</li> <li>• Operation using locally provided Windows PC possible; max. 2 users at same time</li> <li>• Requires a TCS Net relay interface (BMS-IFLSV4E) for each TCC Link line</li> <li>• Energy monitoring and billing; requires energy monitoring relay interface (BMS-IFWH5E),</li> <li>• locally provided pulse counter, Windows PC with Excel</li> <li>• Not a stock item - lead time on request</li> </ul>	<p>7.545,-</p>
	<p><b>BMS-IFLSV4E</b> TCS Net relay interface / REQUIRED accessories - touch screen controller</p> <ul style="list-style-type: none"> <li>• Interface between RS485 and TCC Link protocol</li> <li>• Connection of up to 64 indoor units/groups per interface</li> <li>• Up to 12 interfaces can be connected</li> </ul>	<p>1.410,-</p>

While stocks last



# BMS systems

	TYPE / DESCRIPTION	PRICE €
	<p><b>BMS-IFMB1280U-E</b> Modbus® Interface TU2C-Link</p> <ul style="list-style-type: none"> <li>• Controls up to 128 indoor units</li> <li>• To connect the TU2C-Link network to a locally provided Modbus® building management system</li> <li>• Requires locally provided Modbus master (max. 10 interfaces/master)</li> </ul>	2.745,-
	<p><b>TO-AC-KNX-16</b> Module for controlling all the functions of up to 16 indoor units via the KNX® bus.</p> <ul style="list-style-type: none"> <li>• Connection via TCC link</li> <li>• KNX® bus system required</li> <li>• Not a stock item - lead time on request</li> </ul>	4.190,-
	<p><b>TO-AC-KNX-64</b> Module for controlling all the functions of up to 64 indoor units via the KNX® bus.</p> <ul style="list-style-type: none"> <li>• Connection via TCC link</li> <li>• KNX® bus system required</li> <li>• Not a stock item - lead time on request</li> </ul>	8.150,-
	<p><b>TCB-IFLN642TLE</b> LonWorks® Interface</p> <ul style="list-style-type: none"> <li>• Controls up to 64 indoor units</li> <li>• To connect the TCC Link network to a locally provided LonWorks® building control system</li> <li>• Requires a LonWorks® network card to enable control from a PC</li> </ul>	2.245,-
	<p><b>BMS-IFBN640TLE</b> Small BACnet® Interface</p> <ul style="list-style-type: none"> <li>• Controls up to 64 indoor units</li> <li>• To connect the TCC Link network to a locally provided BACnet® building control system</li> <li>• TCS Net relay interface not required</li> </ul>	2.325,-
	<p><b>BMS-IFBN1280U-E</b> Big BACnet® Interface TU2C-Link</p> <ul style="list-style-type: none"> <li>• Controls up to 128 indoor units</li> <li>• To connect the TU2C Link network to a locally provided BACnet® building control system</li> <li>• TCS Net relay interface not required</li> </ul>	2.260,-
	<p><b>TCB-IFCB640TLE</b> Analog interface</p> <ul style="list-style-type: none"> <li>• Controls up to 64 indoor units</li> <li>• For connection to TCC link network</li> <li>• Controls all main functions via 0-10V signals or fixed resistors</li> <li>• Inputs: 8 analog, 2 digital</li> <li>• Outputs: 5 analog, 5 digital</li> </ul>	2.975,-
	<p><b>Cool Master Net</b> Central controller with KNX® option</p> <ul style="list-style-type: none"> <li>• Controls up to 64 indoor units – option up to 128</li> <li>• For connection to TCC link network</li> <li>• Interfaces via RS232 (ASCII), RS485 (MODBUS RTU), Ethernet (ASCII &amp; MODBUS IP)</li> <li>• Small touch screen user interface</li> <li>• Control via smartphone, tablet, or PC possible</li> <li>• Free "Cool Remote" app for iOS or Android</li> <li>• Not a stock item - lead time on request</li> </ul>	3.560,-
	<p><b>CoolMaster License</b> Extended license to control up to 128 indoor units.</p>	1.070,-





# External control options

	TYPE / DESCRIPTION	PRICE €
	<p><b>TCB-ACREDU2-E</b> Redundancy Box</p> <ul style="list-style-type: none"> <li>• Redundancy switchover unit for two indoor units (or groups) in the event of a fault</li> <li>• Operating hours-dependent switchover for two indoor units</li> <li>• Temperature-dependent activation of second system</li> <li>• Connection to CN61 of indoor units</li> <li>• Plug &amp; Play, temperature sensor included</li> <li>• LAN port, monitoring via web browser possible.</li> </ul>	2.050,-
	<p><b>TCB-PCM04E</b> Multifunction module (outdoor unit) 4 functions using 2 potential-free contact inputs; 1 function per module</p> <ul style="list-style-type: none"> <li>• Fan control during snowfall</li> <li>• External master On/Off</li> <li>• Night mode (noise reduction)</li> <li>• Operating mode priority heating/cooling</li> </ul>	130,-
	<p><b>TCB-PCDM4E</b> Current limiting/load shedding module (outdoor unit) 2 functions using 2 potential-free contact inputs</p> <ul style="list-style-type: none"> <li>• External On/Off</li> <li>• Power reduction 100%, 85%, 75%, 60%, 0% (stop)</li> </ul>	170,-
	<p><b>TCB-PCIN4E</b> Output module (outdoor unit) 4 functions using 3 potential-free contact outputs</p> <ul style="list-style-type: none"> <li>• Operating signal</li> <li>• Error notification</li> <li>• Operating time compressors 1 and 2</li> <li>• Output power in 8 stages (0 – over 95%)</li> </ul>	190,-
	<p><b>TCB-PSMT1E</b> Multi Tenant Kit</p> <ul style="list-style-type: none"> <li>• Not a stock item - lead time on request</li> </ul>	380,-
	<p><b>TCB-KBCN32VEE</b> CN32 - DO: Control of an external fan</p>	6,-
	<p><b>TCB-KBCN600PE</b> CN60 - DO: Operating signal cooling, heating, fan, defrost, thermo On</p>	11,-
	<p><b>TCB-KBCN61HAE</b> CN61 - DI/DO HA terminal: On/Off, enable/block, operating performance, alarm</p>	11,-
	<p><b>TCB-KBCN700AE</b> CN70 - DI: external alarm input</p>	6,-
	<p><b>TCB-KBCN73DEE</b> CN73 - DI: external thermo Off input</p>	6,-
	<p><b>TCB-KBCN80EXE</b> CN80 - DI: external alarm input</p>	6,-



# External control options

	TYPE / DESCRIPTION	PRICE €
	<b>TCB-LD1</b> Control unit	445,-
	<b>TCB-LDS1</b> Leak detection sensor, plastic	980,-
	<b>TCB-LDS2</b> Leak detection sensor, steel	1.015,-
	<b>TCB-LDSBB1</b> Casing, plastic for drywall	15,-
	<b>TCB-LDSBB2</b> Casing, metal for wall	15,-
	<b>TCB-AW17861</b> Isolation valve 12.7 mm	645,-
	<b>TCB-AW17862</b> Isolation valve 15.9 mm	645,-
	<b>TCB-LD2</b> Control unit	3.305,-
	<b>TCB-PCM04E.</b> DI additional PCB	130,-
	<b>TCB-PCIN4E.</b> DO additional PCB	190,-
	<b>TCB-LDS1</b> Leak detection sensor, plastic	980,-
	<b>TCB-LDS2</b> Leak detection sensor, steel	1.015,-
	<b>TCB-LDSBB1</b> Casing, plastic for drywall	15,-
	<b>TCB-LDSBB2</b> Casing, metal for wall	15,-
	<b>TCB-AW17861</b> Isolation valve 12.7 mm	645,-
	<b>TCB-AW17862</b> Isolation valve 15.9 mm	645,-
	<b>TCB-AW17863</b> Isolation valve 19.0 mm	695,-
	<b>TCB-AW17864</b> Isolation valve 22.2 mm	760,-
	<b>TCB-AW17865</b> Isolation valve 28.6 mm	1.050,-
	<b>TCB-AW17866</b> Isolation valve 34.9 mm	1.105,-
	<b>TCB-AW17867</b> Isolation valve 41.3 mm	1.150,-

\* Leak detection accessories: not a stock item. Lead time on request.

# TOSHIBA service program


- › Computer software for service engineers
- › Displays and records unit data: unit ON / OFF, cooling or heating mode, pulse modulation valve degree of opening, temperature values, pressure values, compressor ON / OFF, error codes
- › Consisting of: adapter box, with cable to the unit, cable to the computer, and CD-ROM

TYPE	ADDITIONAL INFORMATION	PRICE IN €
<b>TCB-DK01SS-E</b>	Dyna Doctor hardware for RAS, ESTIA, RAV and VRF	<b>2.430,-</b>
<b>TCB-SS1UU-E</b>	Service link adapter SMMSu	<b>2.765,-</b>

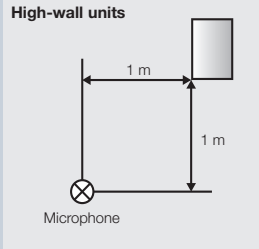
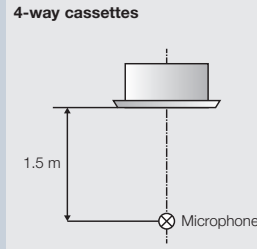
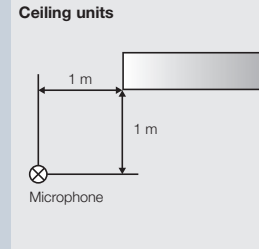
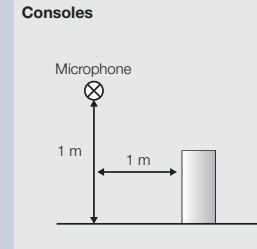
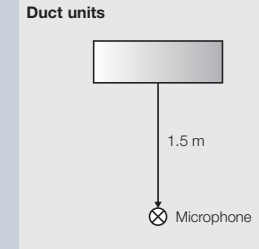
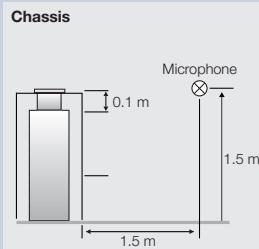
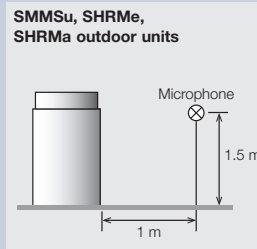
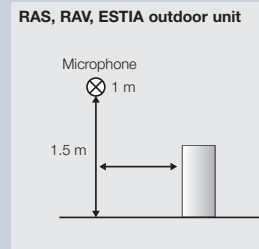
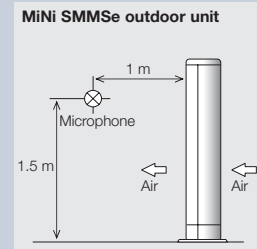
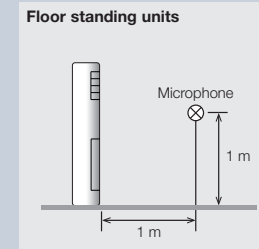
Software for the Dyna Doc can be downloaded free of charge:  
[www.toshiba-aircondition.com](http://www.toshiba-aircondition.com)

- › Partner Login
- › Software
- › Downloads
- › Dyna Doctor

## Legend to the units' features

	R32 refrigerant		WiFi ready, module not included!
	R410A refrigerant		Single-split configuration
	R32 or R410A refrigerant (bi-ref)		Multi-split configuration

## Test set-up for determining the sound pressure level

<b>High-wall units</b> 	<b>4-way cassettes</b> 	<b>Ceiling units</b> 	<b>Consoles</b> 	<b>Duct units</b> 
<b>Chassis</b> 	<b>SMMSu, SHRMe, SHRMa outdoor units</b> 	<b>RAS, RAV, ESTIA outdoor unit</b> 	<b>MiNi SMMSe outdoor unit</b> 	<b>Floor standing units</b> 

# Measuring conditions for TOSHIBA air conditioners & heat pumps

<b>Cooling</b>	Outdoor temperature: +35°C dry bulb temperature Indoor temperature: +27°C dry bulb temperature / +19°C wet bulb temperature Humidity: 50 – 55 % r.H. (relative humidity)
<b>Heating</b>	Outdoor temperature: +7°C dry bulb temperature / +6°C wet bulb temperature Indoor temperature: +20°C dry bulb temperature
<b>Refrigerant piping</b>	Performance data for RAV and ESTIA for 7.5 m cable length and 0 m height difference between indoor and outdoor unit. For VRF standard indoor units for 5.0 m main pipe, 2.5 m branch pipe, 0 m height difference
<b>Technical data, performance data and operating limits</b>	The minimum, nominal, and maximum values may be specified with intermediate stages if available. If only one value is specified without special identification, the value applies to nominal conditions.
<b>Sound pressure level</b>	For split systems measured using test set-up on page 217 „Test set-up for determining the sound pressure level“. Values are determined in an acoustically shielded room as defined in JIS B8616; when installed, these values may be higher since they can be affected by external factors.
<b>Energy efficiency and energy efficiency values</b>	All energy efficiency values & data are documented in detail at <a href="http://www.toshiba-aircondition.com">www.toshiba-aircondition.com</a> . Here you will also find a link to the Ecodesign website <a href="http://ecodesign.toshiba-airconditioning.eu">http://ecodesign.toshiba-airconditioning.eu</a> . This contains all the legally required information & data concerning Lot10, Lot21, Lot1, Lot2, Lot11 and Lot6 products. In systems with different combination options, the energy efficiency values will depend on the combination. Efficiency values for RAS multi outdoor units are measured for a specified combination that is specified in the associated service manual.
<b>Fusing and power supply line</b>	Catalog values are recommended values. The dimensioning is the responsibility of the electrical installation company carrying out the work and must be done in accordance with the regional regulations.
<b>Seasonal performance factor</b>	The SPF values specified for ESTIA products correspond to the preliminary calculation described in VDI 4650, at a standard outdoor temperature of -12°C, heating limit temperature of +15°C, supply water temperature of +30°C, $\Delta T = 10$ K
<b>VRF outdoor units</b>	Operating range, outdoor temperature when set up in a position protected against the wind and with minimum system load of 50 % height difference (max.): indoor units higher / lower

## Performance data for ESTIA products

<b>Split</b>	Heating capacity and power consumption at nominal compressor operating speed; power consumption without water pump. Measured in accordance with EN 14511. 0 m height difference between outdoor unit and hydrobox / All-in-one.
<b>Hot water modules</b>	Heating capacities under nominal conditions; MT Mid Temperature: Temperature at water inlet +30°C, water outlet +35°C. HT High Temperature: Temperature at water inlet +60°C, water outlet +65°C.



## Glossary

<b>Heat pump</b>	A <b>heat pump</b> is a system that generates useful heat from the ambient temperature (roughly 75%) and operating energy (roughly 25%).
<b>Inverter technology</b>	<b>Inverter technology</b> means the load-adaptive speed control of compressor(s) and optionally the fan motor(s) of an outdoor unit.
<b>Energy efficiency</b>	The <b>energy efficiency</b> is the direct comparison between the electrical energy used and the heating capacity / cooling capacity obtained.
<b>Seasonal energy efficiency</b>	See the definition of "Energy efficiency" viewed over one year.
<b>Full load</b>	<b>Full load</b> is an operating status at which a machine can yield the greatest possible power output.
<b>Part load</b>	<b>Part load</b> is the operating status that is achieved by speed adaption on the basis of the capacity demand required for the room.
<b>Compressor</b>	A <b>compressor</b> is a component that is needed to compress the refrigerant.
<b>PWM, PAM</b>	The voltage converted by the "inverter" can drive the compressor in two ways. Either <b>pulse width modulation</b> (high efficiency / PWM) is used for very efficient operation in the part load range, or <b>pulse height modulation</b> (high power / PAM) is applied to ensure that the set temperature is quickly reached.
<b>Sound power level</b>	The <b>sound power level</b> is an acoustic variable that arises at the actual sound source. It is expressed in dB(A).
<b>Sound pressure</b>	The <b>sound pressure</b> is the result of the sound power level in relation to the distance from the sound source. It is measured in dB(A).
<b>Nominal capacity</b>	The unit capacity at a specified operating point.
<b>Maximum capacity</b>	The maximum unit capacity at a specified operating point.
<b>Fusing</b>	This interrupts an electrical current circuit when the electrical current exceeds a defined current intensity over a specified time, or a short-circuit or a ground fault occurs at the electrical consumer.
<b>Refrigerant</b>	The refrigerant is a technical gas that acts as a medium for transporting cold and thermal energy within the system. The commonly used refrigerants at present are R410A and R32, and usage will move more towards R32 in future. R32 has a lower global warming potential (GWP*), greater energy efficiency, and requires smaller charges.
<b>GWP</b>	Stands for Global Warming Potential and designates the climate warming potential of the refrigerant in relation to carbon dioxide (CO <sub>2</sub> ). The GWP of carbon dioxide was defined as 1 as the basis for the calculation. For the R410A refrigerant, the GWP is 2,088, while for R32 it is just 675.
<b>CO<sub>2</sub> equivalent</b>	It has been mandatory to show the CO <sub>2</sub> equivalent on all outdoor units since 1 January 2017. This is the mathematical product of the GWP and the total refrigerant charge of a system. The CO <sub>2</sub> equivalent is expressed in tons.
<b>HP (Horse Power)</b>	Stands for horsepower





# CHILLER & HEATPUMP *UNIVERSAL SMART X*

THE NEW R32 DIMENSION IN COOLING & HEATING

## THE 8 SMART FEATURES

Even at first glance, the new UNIVERSAL SMART X from TOSHIBA really looks the part. With its compact, modular form and eye-catching X design, it fits into any installation location. To save space, up to 128 modules may be arranged in series to provide a total cooling capacity of up to 25,600 kW. The modular structure and perfect part load characteristics mean that the system can achieve this enormous capacity in a theoretically infinite number of increments from 5% of an individual unit up to the maximum capacity.

The 8 smart features show how the intelligent system design leads to considerable savings in terms of space required and energy resources, while offering perfect reliability.





Perlinger Gemüse GmbH Wallern / Burgenland, Robert Müllner GmbH



### Broad operating range

The USX reliably delivers heating and cooling all year round – even under extreme usage conditions



### Operating reliability due to modular structure

The 4-in-1-module concept translates to maximum reliability and redundancy



### Twin-rotary compressor – infinitely variable from 5 – 100 %

Energy efficient control in the part load range up to 5 % thanks to the proven TOSHIBA twin rotary compressor



### Prompt availability all year-round from Vienna warehouse

Standardized unit configuration ensures year-round availability from the warehouse in Vienna



### 150 kW – 25.6 MW capacity range Modular scaling

Heating and cooling output of up to 25,600 kW can be combined in a modular fashion



### WiFi connection

A simple app is available for monitoring mobile systems and energy



### Space-saving X design

The distinct X design optimizes air flow and takes up less installation space than conventional systems



### High efficiency factor

Lower investment and operating costs due to reduction of the connected electrical load as standard

# TOSHIBA

Expertise in every sector –  
air conditioning systems and heat pumps for cooling and heating

➤ HOME comprises all the air conditioning solutions for your own home.

➤ Every ESTIA heat pump incorporates TOSHIBA's knowledge and experience.

➤ LIGHT BUSINESS / BUSINESS delivers air conditioning solutions for business and industry.

➤ USX chillers – the new and superlative special systems.





TOSHIBA's innovative air conditioning systems were specially developed to ensure your wellbeing in your home, and its progressive technology offers comfort 365 days a year. Quiet operation, air filtering, and purification are just some of the benefits for greater comfort in your home. An air conditioning system is also the perfect heating solution, especially at season changes.



High quality and efficiency in a space-saving format. The ESTIA air-to-water heat pump is extremely effective and is ideal for heating, hot water preparation, and cooling in your home. Heating with heat from the air – environmentally friendly, cost-effective, and efficient.



Single-room solutions are suitable for smaller commercial applications, such as offices, shop floors, or plant rooms, where reliability is paramount and continuous operation is required. Multi-room solutions comprise air conditioning systems for complex installations in large structures such as office buildings, shopping malls, or hotels.



TOSHIBA's USX chillers represent a new dimension in refrigeration and heat generation. If the capacity required exceeds the technical and financial limits of direct evaporation systems, then water-based systems are used.





# We advise you personally

## YOUR CERTIFIED TOSHIBA PARTNER

TOSHIBA specialist partner:



TOSHIBA is proud of its network of qualified specialist companies in the refrigeration and air conditioning sector. With a TOSHIBA air conditioning system, you will not only receive top product quality, but will benefit from professional advice, planning, installation, and service. Rely on a perfect climate from a specialist!

### **From small to large**

TOSHIBA covers the entire spectrum with products for both domestic situations and for industrial and commercial applications. Contact your TOSHIBA specialist partner or visit our website for detailed information.



**For more information: Visit our website!**

You will find further information about TOSHIBA products and sales partners on our website:

[www.toshiba-aircondition.com](http://www.toshiba-aircondition.com)