

TOSHIBA Leading Innovation >>>

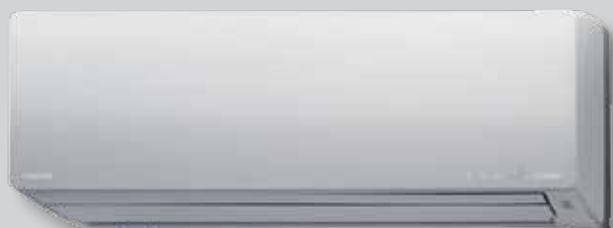
WE CARE FOR
NATURE



2015 / 16

PRICE LIST

Airconditioning systems



TERMS OF BUSINESS

General

As far as nothing else has been declared, the general terms of business and the agreed purchase conditions including the sales discounts are valid. Arrangements that differ from our terms are only valid on condition that we confirm this explicit and in writing.

Jurisdiction

Jurisdiction for both partners is the «Landes- als Handelsgericht» Graz. Austrian law is valid.

Quotation

Our prices are quoted inclusively normal packaging ex loading platform of the forwarding agency Gebrüder Weiss Maria Lanzendorf, without loading. Costs incurred due to special requests are met by the purchaser. Incoterms are valid in the version of 2010. Separate agreements for pricing are noted on the purchase conditions.

Passing of the risk

The risk goes over the purchaser as soon as the goods have left the loading platform on which they had been prepared for collection. The risk of loading is taken by the purchaser.

Take-over of the goods

When taking over the goods, the forwarding agency organised by the purchaser or the collector has the duty to check the delivery according to the order. Any damages noticed on the carton box or on the unit itself have to be noted on the delivery note when taking over and immediately reported to the forwarding agency and Air-Cond. Latent defects have to be notified in Austria within 7 days and in export countries 10 days from date of collection, otherwise claims/liability will not be accepted by the insurance company. In case of transport damages a written reclamation for visible damages is necessary immediately, at the latest within 7 days.

Reservation of ownership

The delivered or otherwise transferred goods remain our property until full payment.

Wrong deliveries

All costs that result from wrong deliveries cannot be asserted

Material warranty

Claims for material warranty can be asserted from the purchaser within 36 months from date of delivery and date of invoice using our provided form for material warranty claims and against returning the faulty part if we ask for this. The material warranty only contains the replacing of spare parts ex our warehouse. We clearly mention that the material warranty does not include the refund of costs for wages, travel costs etc. Condition for accepting the material warranty claim is the proper installation by a specialist according to the TOSHIBA installation rules, permitted operating conditions and the periodical service following the TOSHIBA maintenance guidelines. In case of an improper installation or non-compliance of the permitted operation conditions and maintenance guidelines resp. wrong dimensioning, claims for material warranty will be refused.

Cancellation fee

For the cancellation of orders we allow us to charge in general the amount of € 60,-. When receiving the cancellation after the preparation of the goods and invoice or after issuing export documents we charge the amount of € 120,-. In case of already delivered goods all costs incurred of removal, preparation of papers, any transportation costs and expenses for restocking will be charged.

Delay in payment / Default interests

In case of a delay in payment by the principal, we reserve the right to retain all future services till full settlement of the delayed payment. As far as this delay is not limited to a small amount Air-Cond is entitled for all subsequent orders, which already have been confirmed, to demand payment in advance.

On delay the client has to pay on the amount due interests to the extent of 8% points on top of the base rate annually.

Any rights of Air-Cond to request additional delay damages shall remain unaffected.

Export declaration (valid for Non-EU member states)

The purchaser commits himself to send us the export declaration (customs' confirmation that the goods left the EU) within 14 days after the collection under registered mail. In case of omission we charge 20% VAT, customs duty and a fine of the customs authorities.



Validity of the price list: 1st March 2015 until 29th February 2016

The price list is subject to the general terms of business of company Air-Cond Klimaanlagen-Handelsgesellschaft m.b.H

Subject to changes without notice! All specifications, model names and figures are subject to typing and printing errors.



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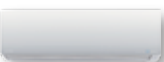



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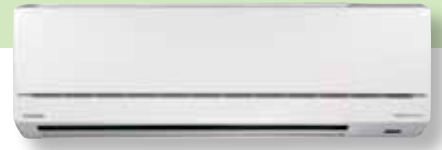
Indoor units

Model type	size	10	13	16	18	22
HI-WALL						
AvAnt RAS-xxxSKV-E7		●	●	●		
Suzumi Plus RAS-BxxN3KV2-E		●	●	●	●	●
Suzumi Plus RAS-BxxN3KV2-E1		●	●	●	●	●
Super Daiseikai 6.5 RAS-BxxN3KVP-E		●	●	●		
Super Daiseikai 8 RAS-xxG2KVP-E		●	●	●		
CHASSIS						
Console RAS-BxxUFV-E		●	●		●	
BUILT-IN UNITS						
60x60 4-way cassette RAS-MxxSMUV-E		●	●	●		
Duct unit RAS-MxxG3DV-E		●	●	●		



AvAnt Inverter

- Entry inverter with a great price performance ratio
- Compact design
- Inverter technology



Series 5 / 6

Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)	Set price
				SEER	SCOP						
AvAnt Inverter (Infrared remote control included)											
RAS-107SKV-E6*	2,50	3,20	A / A	5,10	3,80	275 × 790 × 205	0,29 - 1,05	0,21 - 0,97	55 / 56	260,-	850,-
RAS-107SAV-E6	(1,20 - 3,00)	(0,90 - 3,50)									
RAS-137SKV-E6*	3,15	3,60	A / A	5,10	3,80	275 × 790 × 205	0,28 - 1,50	0,21 - 1,18	56 / 57	260,-	940,-
RAS-137SAV-E6	(1,20 - 3,60)	(0,95 - 4,00)									
RAS-167SKV-E5*	4,40	5,20	A+ / A	5,80	3,80	275 × 790 × 205	0,26 - 1,90	0,19 - 1,81	60 / 60	295,-	1.220,-
RAS-167SAV-E5	(1,10 - 5,00)	(1,00 - 6,20)									

*Model change on series 7 in the spring of 2015.

Series 7

- Optional infrared remote control including weekly timer and 8 ° C frost protection function
- Available from spring 2015

Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)	Set price
				SEER	SCOP						
AvAnt Inverter (Standard infrared remote control included)											
RAS-107SKV-E7	2,50	3,20	A / A	5,10	3,80	275 × 790 × 205	0,29 - 1,05	0,21 - 0,97	55 / 56	260,-	850,-
RAS-107SAV-E6	(1,20 - 3,00)	(0,90 - 3,50)									
RAS-137SKV-E7	3,15	3,60	A / A	5,10	3,80	275 × 790 × 205	0,28 - 1,50	0,21 - 1,18	56 / 57	260,-	940,-
RAS-137SAV-E6	(1,20 - 3,60)	(0,95 - 4,00)									
RAS-167SKV-E7	4,40	5,20	A+ / A	5,80	3,80	275 × 790 × 205	0,26 - 1,90	0,19 - 1,81	60 / 60	295,-	1.220,-
RAS-167SAV-E5	(1,10 - 5,00)	(1,00 - 6,20)									

Cooling Heating

Accessories

Type	Single price excl. VAT (EUR)
818F0023	Optional filter strips for the Avant series 23,-
RB-RXS30-E	Optional Infrared remote control Including Weekly Timer and 8 ° C frost protection function for models of the Series 7 75,-
RBC-Combi Control	Control of the main functions via SMS or an app (for iOS and Android) as on / off, mode, temperature, fan speed and alarm in case of power failure or too high / too low temperature (Sim card required) 550,-
IS-IR-WIFI-1	WIFI control the air conditioning via smartphones (for iOS and Android), tablet or PC 290,-
TCB-IFCB5-PE	P.C. board for external on / off of air conditioner 50,-

PRICE LIST – RESIDENTIAL

Suzumi Plus

- Hybrid inverter with very good efficiency values
- Beautiful design, with optional silver front panel
- IAQ filter system



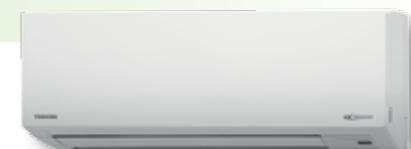
Series E

Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Suzumi Plus (Infrared remote control included)											
RAS-B10N3KV2-E*	2,50	3,20	A++ / A+	6,70	4,00	275 × 790 × 225	0,25 - 0,82	0,17 - 1,40	53 / 54	365,-	1.025,-
RAS-10N3AV2-E*	(1,10 - 3,00)	(0,90 - 4,80)									
RAS-B13N3KV2-E*	3,50	4,20	A++ / A	6,20	3,90	275 × 790 × 225	0,15 - 1,25	0,15 - 1,58	54 / 55	395,-	1.195,-
RAS-13N3AV2-E*	(0,80 - 4,10)	(0,90 - 5,60)									
RAS-B16N3KV2-E*	4,50	5,50	A++ / A	6,10	3,90	275 × 790 × 225	0,15 - 1,72	0,15 - 1,98	60 / 60	435,-	1.420,-
RAS-16N3AV2-E	(0,80 - 5,00)	(0,90 - 6,90)									
RAS-18N3KV2-E*	5,00	5,80	A++ / A+	7,00	4,10	320 × 1050 × 243	0,18 - 2,00	0,14 - 1,70	59 / 59	450,-	1.685,-
RAS-18N3AV2-E	(1,10 - 6,00)	(0,80 - 6,30)									
RAS-B22N3KV2-E*	6,00	7,00	A++ / A+	6,50	4,00	320 × 1050 × 243	0,20 - 2,65	0,18 - 2,21	60 / 60	545,-	1.895,-
RAS-22N3AV2-E	(1,20 - 6,70)	(1,00 - 7,50)									

*Model change on series E1 in the spring of 2015.

Series E1

- New design with clean lines
- Compact design with lower unit depth
- Optional infrared remote control including weekly timer and 8 ° C frost protection function
- Available from spring 2015



Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Suzumi Plus (Standard infrared remote control included)											
RAS-B10N3KV2-E1	2,50	3,20	A++ / A+	6,70	4,30	275 × 790 × 217	0,25 - 0,91	0,19 - 1,40	53 / 54	365,-	1.025,-
RAS-10N3AV2-E1	(1,10 - 3,00)	(0,90 - 4,80)									
RAS-B13N3KV2-E1	3,50	4,20	A++ / A+	6,50	4,00	275 × 790 × 217	0,26 - 1,55	0,19 - 1,64	54 / 55	395,-	1.195,-
RAS-13N3AV2-E1	(1,10 - 4,05)	(1,00 - 5,30)									
RAS-B16N3KV2-E1	4,50	5,50	A++ / A	6,10	3,90	275 × 790 × 217	0,15 - 1,72	0,15 - 1,98	60 / 60	435,-	1.420,-
RAS-16N3AV2-E	(0,80 - 5,00)	(0,90 - 6,90)									
RAS-18N3KV2-E1	5,00	5,80	A++ / A+	7,00	4,10	320 × 1050 × 229	0,18 - 2,00	0,14 - 1,70	59 / 59	450,-	1.685,-
RAS-18N3AV2-E	(1,10 - 6,00)	(0,80 - 6,30)									
RAS-B22N3KV2-E1	6,00	7,00	A++ / A+	6,50	4,00	320 × 1050 × 229	0,20 - 2,65	0,18 - 2,21	60 / 60	545,-	1.895,-
RAS-22N3AV2-E	(1,20 - 6,70)	(1,00 - 7,50)									

❄️ Cooling 🔥 Heating

Accessories





Type	Single price excl. VAT (EUR)	
43T09485	Panel in silver, compatible with Suzumi Plus Size 10-16	55,-
43T09486	Panel in silver, compatible with Suzumi Plus Size 18, 22	65,-
818F0036	Replacement filter strips for the series Suzumi Plus	30,-
RB-RXS30-E	Optional infrared remote control Including Weekly Timer and 8 ° C frost protection function for indoor unit models in E1	75,-
RBC-Combi Control	Control of the main functions via SMS or an app (for iOS and Android) as on / off, mode, temperature, fan speed and alarm in case of power failure or too high / too low temperature (Sim card required)	550,-
IS-IR-WIFI-1	WiFi control the air conditioning via smartphones (for iOS and Android), tablet or PC	290,-
TCB-IFCB5-PE	P.C. board for external on / off of air conditioner	50,-

Super Daiseikai 8

A+++



- PREMIUM model with excellent efficiency values, A+++
- Elegant design with color LED and high-quality panel surface
- Powerful filter system including plasma filter and Super ionizer
- Convenient infrared remote control with weekly timer, 8 ° C frost protection function and many wellbeing functions
- Very quiet

Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H x B x D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)	Set price
				SEER	SCOP						
Super Daiseikai 8 (Infrared remote control included)											
RAS-10G2KVP-E	2,50	3,20	A+++/A+++	9,10	5,20	293 x 831 x 270	0,11 - 0,90	0,09 - 1,65	57 / 58	535,-	1.730,-
RAS-10G2AVP-E	(0,55 - 3,50)	(0,45 - 5,80)									
RAS-13G2KVP-E	3,50	4,00	A+++/A+++	8,90	5,10	293 x 831 x 270	0,17 - 1,10	0,14 - 1,80	58 / 59	565,-	1.905,-
RAS-13G2AVP-E	(0,63 - 4,10)	(0,65 - 6,30)									
RAS-16G2KVP-E	4,50	5,50	A++/A++	7,30	4,60	293 x 831 x 270	0,17 - 1,75	0,14 - 2,12	59 / 60	640,-	2.435,-
RAS-16G2AVP-E	(0,63 - 5,00)	(0,65 - 6,80)									

 Cooling  Heating

Accessories

Type	Single price excl. VAT (EUR)
RBC-Combi Control	Control of the main functions via SMS or an app (for iOS and Android) as on / off, mode, temperature, fan speed and alarm in case of power failure or too high / too low temperature (Sim card required) 550,-
IS-IR-WIFI-1	WiFi control the air conditioning via smartphones (for iOS and Android), tablet or PC 290,-
TCB-IFCB5-PE	P.C. board for external on / off of air conditioner 50,-



Console

- Bi-flow console with variable possibilities of air outlet
- Floor-heating-effect
- Large radial fan for extra quiet operation



Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Console (Infrared remote control included)											
RAS-B10UFV-E	2,50	3,20	A++ / A+	6,60	4,00	600 × 700 × 220	0,23 - 0,82	0,18 - 1,40	54 / 54	845,-	1.505,-
RAS-10N3AV2-E	(1,10 - 3,10)	(1,00 - 4,80)				550 × 780 × 290			59 / 60	660,-	
RAS-B13UFV-E	3,50	4,20	A++ / A	6,20	3,90	600 × 700 × 220	0,23 - 1,35	0,18 - 1,70	55 / 55	925,-	1.725,-
RAS-13N3AV2-E	(1,10 - 4,10)	(1,00 - 5,40)				550 × 780 × 290			61 / 63	800,-	
RAS-B18UFV-E	5,00	5,80	A+ / A	5,70	3,80	600 × 700 × 220	0,20 - 1,95	0,20 - 2,20	60 / 60	1.110,-	2.345,-
RAS-18N3AV2-E	(1,00 - 5,70)	(1,10 - 6,30)				550 × 780 × 290			64 / 64	1.235,-	

❄️ Cooling 🔥 Heating

Accessories

Type	Single price excl. VAT (EUR)
818F0036 Replacement filter strips for console	30,-
RBC-Combi Control Control of the main functions via SMS or an app (for iOS and Android) as on / off, mode, temperature, fan speed and alarm in case of power failure or too high / too low temperature (Sim card required)	550,-
IS-IR-WIFI-1 WIFI control the air conditioning via smartphones (for iOS and Android), tablet or PC	290,-
TCB-IFCB5-PE P.C. board for external on / off of air conditioner	50,-



RAS Inverter Multi systems >>Indoor units<<

- 2-, 3-, 4- and 5-room systems
- Space-saving installation
- Reduced installation time



Type	Capacity (kW)		Efficiency		Dimensions (H × B × D) (mm)	Sound power level (dB(A)) ❄️ / 🔥	Single price excl. VAT (EUR)
	❄️	🔥	SEER	SCOP			
Suzumi Plus Hi-wall indoor units (Infrared remote control included; Model change on series E1 in the spring of 2015)							
RAS-B10N3KV2-E	2,50 (1,10 - 3,00)	3,20 (0,90 - 4,80)	–	–	275 × 790 × 225	53 / 54	365,-
RAS-B13N3KV2-E	3,50 (0,80 - 4,10)	4,20 (0,90 - 5,60)	–	–	275 × 790 × 225	54 / 55	395,-
RAS-B16N3KV2-E	4,50 (0,80 - 5,00)	5,50 (0,90 - 6,90)	–	–	275 × 790 × 225	60 / 60	435,-
RAS-B22N3KV2-E	6,00 (1,20 - 6,70)	7,00 (1,00 - 7,50)	–	–	320 × 1050 × 243	60 / 60	545,-
Suzumi Plus Hi-wall indoor units (Standard infrared remote control included) - NEW DESIGN! Available from spring 2015							
RAS-B10N3KV2-E1	2,50 (1,10 - 3,00)	3,20 (0,90 - 4,80)	–	–	275 × 790 × 217	53 / 54	365,-
RAS-B13N3KV2-E1	3,50 (1,10 - 4,05)	4,20 (1,00 - 5,30)	–	–	275 × 790 × 217	54 / 55	395,-
RAS-B16N3KV2-E1	4,50 (0,80 - 5,00)	5,50 (0,90 - 6,90)	–	–	275 × 790 × 217	60 / 60	435,-
RAS-B22N3KV2-E1	6,00 (1,20 - 6,70)	7,00 (1,00 - 7,50)	–	–	320 × 1050 × 229	60 / 60	545,-
Super Daiseikai 6.5 (Standard infrared remote control included)							
RAS-B10N3KVP-E	2,51 (0,80 - 3,50)	3,21 (0,80 - 5,80)	–	–	275 × 790 × 225	57 / 58	440,-
RAS-B13N3KVP-E	3,52 (0,90 - 4,10)	4,22 (0,80 - 5,90)	–	–	275 × 790 × 225	58 / 59	470,-
RAS-B16N3KVP-E	4,53 (0,90 - 5,00)	5,53 (0,80 - 6,70)	–	–	275 × 790 × 225	60 / 60	515,-
Console (Infrared remote control included)							
RAS-B10UFV-E	2,50 (1,10 - 3,10)	3,20 (1,00 - 4,80)	–	–	600 × 700 × 220	54 / 54	845,-
RAS-B13UFV-E	3,50 (1,10 - 4,10)	4,20 (1,00 - 5,40)	–	–	600 × 700 × 220	55 / 55	925,-
RAS-B18UFV-E	5,00 (1,00 - 5,70)	5,80 (1,10 - 6,30)	–	–	600 × 700 × 220	60 / 60	1.110,-
60×60 4-way cassette (Infrared remote control included)							
RAS-M10SMUV-E	2,50 (1,10 - 3,20)	3,20 (0,70 - 5,20)	–	–	268 × 575 × 575	52 / 52	940,-
RAS-M13SMUV-E	3,50 (1,10 - 4,40)	4,20 (0,70 - 6,50)	–	–	268 × 575 × 575	53 / 53	985,-
RAS-M16SMUV-E	4,50 (1,40 - 4,90)	5,50 (0,80 - 6,90)	–	–	268 × 575 × 575	55 / 55	1.020,-
RB-B11MC(W)-E, Panel	–	–	–	–	27 × 700 × 700	–	200,-
Duct (Infrared remote control included, drain pump included, cable remote control optional)							
RAS-M10G3DV-E	2,70	4,00	–	–	210 × 700 × 450	50 / 50	1.020,-
RAS-M13G3DV-E	3,70	5,00	–	–	210 × 700 × 450	52 / 52	1.060,-
RAS-M16G3DV-E	4,50	5,50	–	–	210 × 900 × 450	50 / 50	1.120,-

❄️ Cooling

🔥 Heating

 Documented efficiencies in detail on the Web at www.toshiba-aircondition.com


Accessories Multi

Accessories: Hi-wall



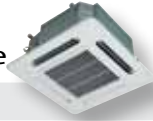
Type		Single price excl. VAT (EUR)
43T09485	Panel in silver, compatible with Suzumi Plus size 10-16	55,-
43T09486	Panel in silver, compatible with Suzumi Plus size 18, 22	65,-
43T09487	Panel in silver, compatible with Super Daiseikai 6.5 all sizes	55,-
818F0036	Replacement filter strips for series Suzumi Plus and Super Daiseikai 6.5	30,-
RB-RXS31-E	Optional infrared remote control Including Weekly Timer and 8 ° C frost protection function for indoor unit models in E1	75,-
RBC-Combi Control	Control of the main functions via SMS or an app (for iOS and Android) as on / off, mode, temperature, fan speed and alarm in case of power failure or too high / too low temperature (Sim card required)	550,-
IS-IR-WIFI-1	WiFi control the air conditioning via smartphones (for iOS and Android), tablet or PC	290,-
TCB-IFCB5-PE	P.C. board for external on / off of air conditioner	50,-

Accessories: Console



Type		Single price excl. VAT (EUR)
818F0036	Replacement filter strips for console	30,-
RBC-Combi Control	Control of the main functions via SMS or an app (for iOS and Android) as on / off, mode, temperature, fan speed and alarm in case of power failure or too high / too low temperature (Sim card required)	550,-
IS-IR-WIFI-1	WiFi control the air conditioning via smartphones (for iOS and Android), tablet or PC	290,-
TCB-IFCB5-PE	P.C. board for external on / off of air conditioner	50,-

Accessories: 4-way cassette



Type		Single price excl. VAT (EUR)
TCB-IFCB5-PE	P.C. board for external on / off of air conditioner	50,-
IS-IR-WIFI-1	WiFi control the air conditioning via smartphones (for iOS and Android), tablet or PC	290,-



Table of combinations RAS Multi outdoor units

	1 indoor unit	2 indoor units	3 indoor units
RAS-M14GAV-E	10 13	10 13 10 10	
RAS-M18UAV-E	10 13 16	10 10 10 13 13 10 13 16 13 16	
RAS-3M26UAV-E* / RAS-3M26S3AV-E		10 10 10 10 10 13 13 13 13 16 16 16 18 18 10 13 16 18 22 13 16 18 22 16 18 22 18 22	10 10 10 10 10 10 10 10 10 10 10 10 10 10 13 13 13 13 16 16 16 13 13 13 13 16 16 16 16 16 16 10 13 16 18 22 13 16 18 22 16 18 22 13 16 18 22 16 18 22 16 18 22
RAS-4M27UAV-E* / RAS-4M27S3AV-E		10 10 10 10 10 13 13 13 13 16 16 16 18 18 10 13 16 18 22 13 16 18 22 16 18 22 18 22	10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 13 13 13 13 16 16 16 18 18 13 13 13 13 16 16 16 18 18 16 16 10 13 16 18 22 13 16 18 22 16 18 22 18 22 13 16 18 22 16 18 22 16 18 22 18 22 16 18 22 18 22 16 22
RAS-5M34UAV-E1* / RAS-5M34S3AV-E		10 10 10 10 10 13 13 13 13 16 16 16 18 18 22 10 13 16 18 22 13 16 18 22 16 18 22 18 22 22	10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 13 13 13 16 13 13 13 16 16 16 16 18 18 18 22 10 13 16 18 22 13 16 18 22 16 18 22 18 22 16 16 18 22 18 22 16 16 18 22 18 22 22 22

*Available while stocks last

RAS Inverter Multi systems >>Outdoor units<<



Type	Capacity (kW)		Efficiency		Dimensions (H x B x D) (mm)	Power consumption (kW)		Sound power level (dB(A)) ❄️ / 🔥	Single price excl. VAT (EUR)
	❄️	🔥	SEER	SCOP		❄️	🔥		
Hybrid Inverter Multi Outdoor units									
RAS-M14GAV-E	4,00 (1,40 - 4,50)	4,40 (0,90 - 5,20)	5,83	3,85	550 x 780 x 290	1,02	0,95	61 / 63	1.245,-
RAS-M18UAV-E	5,20 (1,40 - 6,20)	5,60 (0,90 - 8,30)	6,23	4,60	550 x 780 x 290	1,44	1,19	64 / 66	1.320,-
RAS-3M26UAV-E*	7,50 (4,10 - 9,00)	9,00 (2,00 - 11,20)	6,00	4,42	890 x 900 x 320	2,00	2,20	63 / 64	2.115,-
RAS-4M27UAV-E*	8,00 (4,20 - 9,30)	9,00 (3,20 - 11,70)	5,91	4,25	890 x 900 x 320	2,29	1,93	63 / 64	2.445,-
RAS-5M34UAV-E1*	10,00 (3,70 - 11,00)	12,00 (3,40 - 14,00)	6,20	4,10	890 x 900 x 320	2,92	2,83	66 / 69	2.825,-
* Model change on series S in the spring of 2015									
RAS-3M26S3AV-E	7,50 (4,10 - 9,00)	9,00 (2,00 - 11,20)	6,19	4,41	890 x 900 x 320	2,00	2,20	63 / 64	2.115,-
RAS-4M27S3AV-E	8,00 (4,20 - 9,30)	9,00 (3,20 - 11,70)	6,11	4,25	890 x 900 x 320	2,29	1,93	63 / 64	2.445,-
RAS-5M34S3AV-E	10,00 (3,70 - 11,00)	12,00 (3,40 - 14,00)	6,31	4,06	890 x 900 x 320	2,98	2,83	66 / 68	2.825,-

❄️ Cooling 🔥 Heating Documented efficiencies in detail on the Web at www.toshiba-aircondition.com



Heat pump

4 indoor units										5 indoor units									
[Diagram showing 4 indoor units connected to a central outdoor unit]										[Diagram showing 5 indoor units connected to a central outdoor unit]									
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10	10	13	10	10	10	10	10	10	10	10	10	13
10	10	10	10	10	13	13	16	13	16	10	10	10	10	10	10	10	10	10	13
10	13	16	18	22	13	16	16	18	18	10	13	16	18	18	13	13	13	13	13
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10	10	13	10	10	10	10	10	10	10	10	10	13
10	10	10	10	10	10	10	10	10	13	10	10	10	10	10	10	10	10	10	13
10	10	10	10	10	13	13	16	13	16	10	10	10	10	10	10	10	10	10	13
10	13	16	18	22	13	16	16	18	18	10	10	10	10	10	10	10	10	10	13
10	13	16	18	22	13	16	22	18	22	10	10	10	13	13	13	16	13	13	13
10	13	16	18	22	13	16	22	18	22	10	13	16	18	13	16	13	16	13	13
10	13	16	18	22	13	16	22	18	22	10	13	16	18	13	16	13	16	13	13

Product overview



Model name	AvAnt	Suzumi Plus	Super Daiseikai 8	Super Daiseikai 6.5
Cooling	●	●	●	●
Heating	●	●	●	●
Hybrid inverter control	●	●	●	●
Rotary compressor	●	● 10/13		
Twin-Rotary compressor		● 16/18/22	●	●
Dust filter	●	●	●	●
IAQ filter		●		●
Active carbon-catechin filter	optional			
Plasma filter (pure mode)			●	●
Air ionizer				●
SUPER ionizer			●	
Self-cleaning function	●	●	●	●
Automatic mode	●	●	●	●
Hi Power	●	●	●	●
Automatic diagnostic	●	●	●	●
Eco mode	●	●	●	●
Quiet mode		●	●	
Comfort sleep		●	●	●
Power selection			●	●
WiFi	●	●	●	●
Weekly timer	○ Series 7	○ Series E1	●	
Timer		●		●
Off Timer	●			
Automatic restart	●	●	●	●
8 °C setting	○ Series 7	○ Series E1*	●	
Floor mode				
Preset mode		●	●	●
One-touch pre-set				●
Single model	●	●	●	
Multi model		●		●

● Standard version

○ Only in combination with optional remote control










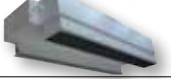

* Feature only available in the single version



Console	Duct	60 × 60 4-way cassette	Model name
●	●	●	Cooling
●	●	●	Heating
●	●	●	Hybrid inverter control
● 10/13			Rotary compressor
● 18	●	●	Twin-Rotary compressor
●		●	Dust filter
●			IAQ filter
			Active carbon-catechin filter
			Plasma filter (pure mode)
			Air ionizer
			SUPER ionizer
●	●	●	Self-cleaning function
●	●	●	Automatic mode
●	●	●	Hi Power
●	●	●	Automatic diagnostic
●	●	●	Eco mode
●	●		Quiet mode
●	●		Comfort sleep
			Power selection
●	●	●	WIFI
	○		Weekly timer
●	●	●	Timer
			Off Timer
●	●	●	Automatic restart
			8 °C setting
●			Floor mode
●	●	●	Preset mode
●	●		One-touch pre-set
●			Single model
●	●	●	Multi model



Indoor units

Model type		kW	2,5	3,0	3,6	4,0	5,0	5,3	6,0	6,7	6,9	7,1	8,0	10,0	11,2	12,0	12,1	12,5	14,0	16,0	20,0	23,0
HI-WALL																						
RAV-SM(...)KRT(P)-E		DI SDI BIG	●		●		●			●		●										
CEILING																						
RAV-SM(...)JCTP-E		DI SDI BIG			●		●			●		●		●			●		●			
CASSETTE																						
60x60 4-way Cassette																						
RAV-SM(...)MUT-E		DI SDI BIG	●		●		●															
4-way Cassette																						
RAV-SM(...)JUTP-E		DI SDI BIG					●			●		●		●		●		●		●		
DUCT																						
Standard Duct																						
RAV-SM(...)BTP-E		DI SDI BIG					●			●		●		●		●		●		●		
Slim Duct																						
RAV-SM(...)SDT-E		DI SDI BIG	●		●		●															
High Static Pressure Duct																						
RAV-SM(...)DT-E		DI SDI BIG																			●	●
AIR CURTAIN																						
Free-hanging unit																						
RAV-CT(...)CH-M/L													●		●					●	●	
Cassette																						
RAV-CT(...)UH-M/L													●		●					●	●	
Built-in unit																						
RAV-CT(...)BH-M/L													●		●					●	●	
VALVE KIT																						
RAV-DXC010 / RBC-DXC031		HP					●		●		●		●		●		●		●		●	



Digital Inverter & Super Digital Inverter Hi-wall

- NEW: Smaller sizes available
- Precise temperature control in cooling and heating
- Filter system for clean air
- Low noise level, 3-stage fan
- Large air conducting strip for optimum air distribution
- Auto restart after power failure programmable

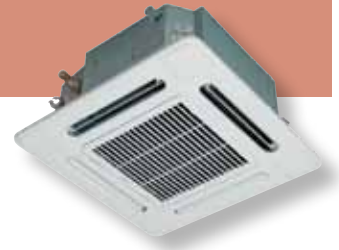


Type	Capacity (kW)		Energy label ❄️ / 🔥	Efficiency		Dimensions (H x B x D) (mm)	Power consumption (kW)		Sound power level (dB(A)) ❄️ / 🔥	Single price excl. VAT (EUR)	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Digital Inverter Hi-wall (Infrared remote control included, cable remote control optional)											
RAV-SM307KRTP-E	2,50	3,40	A+ / A+	5,90	4,00	275 x 790 x 217	0,61	0,85	55 / 44	450,-	1.310,-
RAV-SM304ATP-E	(0,90 - 3,00)	(0,80 - 4,50)				550 x 780 x 290			61 / 62	860,-	
RAV-SM407KRTP-E	3,60	4,00	A / A+	5,40	4,12	275 x 790 x 217	1,13	1,12	56 / 45	480,-	1.530,-
RAV-SM404ATP-E	(0,90 - 4,00)	(0,80 - 5,00)				550 x 780 x 290			64 / 65	1.050,-	
RAV-SM566KRTP-E	5,00	5,30	A+ / A+	5,77	4,00	320 x 1050 x 228	0,30 - 1,86	0,31 - 2,85	57 / 51	530,-	1.730,-
RAV-SM564ATP-E	(1,50 - 5,60)	(1,50 - 6,30)				550 x 780 x 290			63 / 65	1.200,-	
RAV-SM806KRTP-E	6,70	7,70	A+ / A+	5,62	4,01	320 x 1050 x 228	0,31 - 2,85	0,31 - 3,30	62 / 51	550,-	2.090,-
RAV-SM804ATP-E	(1,50 - 7,00)	(1,50 - 9,00)				550 x 780 x 290			65 / 69	1.540,-	
Super Digital Inverter Hi-wall (Infrared remote control included, TCC-Link remote control optional)											
RAV-SM566KRTP-E	5,00	5,60	A+ / A+	5,82	4,01	320 x 1050 x 228	0,21 - 2,05	0,17 - 2,57	57 / 51	530,-	1.980,-
RAV-SP564ATP-E	(1,20 - 5,60)	(0,90 - 7,30)				550 x 780 x 290			63 / 64	1.450,-	
RAV-SM806KRTP-E	7,10	8,00	A+ / A	5,88	3,87	320 x 1050 x 228	0,30 - 2,88	0,27 - 3,87	62 / 61	550,-	2.490,-
RAV-SP804ATP-E	(1,90 - 8,00)	(1,30 - 10,60)				890 x 900 x 320			64 / 65	1.940,-	

Accessories

Type	Single price excl. VAT (EUR)
818F0036 Optional filter strips	30,-

Digital Inverter & Super Digital Inverter 60 × 60 4-way Cassette



- Compact indoor unit: suitable for all euro-grid ceilings
- Low unit height of only 268 mm
- Four air louvers for optimal air distribution
- Fresh air intake possible with external fan to 15% of the nominal amount of air in the indoor unit
- Drain pump with 850 mm lifting height installed (measured from the bottom edge of the unit)
- Auto restart after power failure programmable

Type	Capacity (kW)		Energy label A / A+	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A)) /	Single price excl. VAT (EUR)	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Digital Inverter 60 × 60 euro-grid 4-way cassette											
RAV-SM304MUT-E						268 × 575 × 575			55 / 46	880,-	
RBC-UM11PG(W)-E	2,50	3,40	A / A+	5,53	4,27	27 × 700 × 700	0,59	0,76	-	310,-	2.145,-
RAV-SM304ATP-E	(0,90 - 3,00)	(0,80 - 4,50)				550 × 780 × 290			61 / 62	860,-	
RBC-AMT32E						-			-	95,-	
Digital Inverter 60 × 60 euro-grid 4-way cassette											
RAV-SM404MUT-E						268 × 575 × 575			55 / 46	900,-	
RBC-UM11PG(W)-E	3,60	4,00	A / A+	5,35	4,27	27 × 700 × 700	0,90	0,95	-	310,-	2.355,-
RAV-SM404ATP-E	(0,90 - 4,00)	(0,80 - 5,00)				550 × 780 × 290			64 / 65	1.050,-	
RBC-AMT32E						-			-	95,-	
Digital Inverter 60 × 60 euro-grid 4-way cassette											
RAV-SM564MUT-E						268 × 575 × 575			58 / 49	910,-	
RBC-UM11PG(W)-E	5,00	5,30	A / A+	5,48	4,16	27 × 700 × 700	0,30 - 1,86	0,30 - 2,40	-	310,-	2.515,-
RAV-SM564ATP-E	(1,50 - 5,60)	(1,50 - 6,30)				550 × 780 × 290			63 / 65	1.200,-	
RBC-AMT32E						-			-	95,-	
Super Digital Inverter 60 × 60 euro-grid 4-way cassette											
RAV-SM564MUT-E						268 × 575 × 575			58 / 58	910,-	
RBC-UM11PG(W)-E	5,00	5,60	A+ / A+	5,61	4,20	27 × 700 × 700	0,21 - 2,29	0,17 - 2,37	-	310,-	2.765,-
RAV-SP564ATP-E	(1,20 - 5,60)	(0,90 - 7,40)				550 × 780 × 290			63 / 64	1.450,-	
RBC-AMT32E						-			-	95,-	

❄️ Cooling 🔥 Heating









Digital Inverter 4-way Cassette

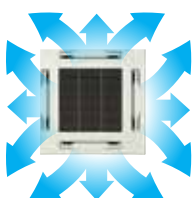


- Beautiful design with two ceiling panels to choose from (wider or direct airflow)
- Deodorising Ag+ ion capsule
- Fresh air intake possible with external fan to 20% of the nominal amount of air in the indoor unit
- Drain pump with 850 mm lifting height installed (measured from the bottom edge of the unit)
- Auto restart after power failure programmable
- Night Operation: particularly quiet operation of the outdoor unit in conjunction with RBC AMS51E-ES

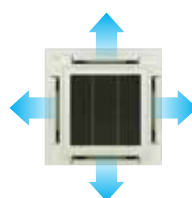
Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H x B x D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)	Set price
				SEER	SCOP						
Digital Inverter Cassette											
RAV-SM564UTP-E						256 x 840 x 840			47 / 43	840,-	
RBC-U31PGP(W)-E	5,00	5,30	A++ / A+	6,14	4,51	30 x 950 x 950	0,26 - 1,86	0,26 - 2,08	-	280,-	2.415,-
RAV-SM564ATP-E	(1,50 - 5,60)	(1,50 - 6,30)				550 x 780 x 290			63 / 65	1.200,-	
RBC-AMT32E						-			-	95,-	
RAV-SM804UTP-E						256 x 840 x 840			50 / 43	960,-	
RBC-U31PGP(W)-E	6,70	7,70	A+ / A+	5,81	4,05	30 x 950 x 950	0,26 - 2,60	0,26 - 3,03	-	280,-	2.875,-
RAV-SM804ATP-E	(1,50 - 8,00)	(1,50 - 9,00)				550 x 780 x 290			65 / 69	1.540,-	
RBC-AMT32E						-			-	95,-	
RAV-SM1104UTP-E						319 x 840 x 840			58 / 48	1.180,-	
RBC-U31PGP(W)-E	10,00	11,20	A+ / A+	5,87	4,28	30 x 950 x 950	0,60 - 4,10	0,60 - 4,30	-	280,-	3.575,-
RAV-SM1104ATP-E	(3,00 - 11,20)	(3,00 - 13,00)				890 x 900 x 320			70 / 71	2.020,-	
RBC-AMT32E						-			-	95,-	
RAV-SM1404UTP-E						319 x 840 x 840			59 / 49	1.320,-	
RBC-U31PGP(W)-E	12,00	12,80	A / A+	5,36	4,19	30 x 950 x 950	0,60 - 4,71	0,60 - 4,50	-	280,-	3.865,-
RAV-SM1404ATP-E	(3,00 - 13,20)	(3,00 - 16,00)				890 x 900 x 320			70 / 71	2.170,-	
RBC-AMT32E						-			-	95,-	
RAV-SM1604UTP-E						319 x 840 x 840			60 / 51	1.490,-	
RBC-U31PGP(W)-E	14,00	16,00	B / B	-	-	30 x 950 x 950	0,65 - 5,70	0,65 - 6,51	-	280,-	4.715,-
RAV-SM1603AT-E	(3,00 - 16,00)	(3,00 - 18,00)				1340 x 900 x 320			68 / 70	2.850,-	
RBC-AMT32E						-			-	95,-	

 Cooling  Heating

RBC-U31PGP(W)-E	Panel for wide airflow	280,-
RBC-U31PGSP(W)-E	Panel for direct airflow	300,-



Panel RBC-U31PGP(W)-E
The special fin shape ensures a perfect air distribution within a radius of 360°. This is a TOSHIBA exclusive preference!



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

Super Digital Inverter 4-way Cassette



- Excellent efficiency
- Beautiful design with two ceiling panels to choose from (wider or direct airflow)
- Deodorising Ag+ ion capsule
- Fresh air intake possible with external fan to 20% of the nominal amount of air in the indoor unit
- Drain pump with 850 mm lifting height installed (measured from the bottom edge of the unit)
- Auto restart after power failure programmable
- Night Operation: particularly quiet operation of the outdoor unit in conjunction with RBC AMS51E-ES

Type	Capacity (kW)		Energy label ❄️ / 🔥	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A)) ❄️ / 🔥	Single price excl. VAT (EUR)	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Super Digital Inverter Cassette											
RAV-SM564UTP-E						256 × 840 × 840			47 / 47	840,-	
RBC-U31PGP(W)-E	5,30	5,60	A++ / A+	6,17	4,58	30 × 950 × 950	0,20 - 1,95	0,15 - 2,40	-	280,-	2.665,-
RAV-SP564ATP-E	(1,20 - 5,60)	(0,90 - 8,10)				550 × 780 × 290			63 / 64	1.450,-	
RBC-AMT32E						-			-	95,-	
RAV-SM804UTP-E						256 × 840 × 840			50 / 50	960,-	
RBC-U31PGP(W)-E	7,10	8,00	A++ / A+	6,39	4,19	30 × 950 × 950	0,30 - 2,52	0,25 - 3,52	-	280,-	3.275,-
RAV-SP804ATP-E	(1,90 - 8,00)	(1,30 - 11,30)				890 × 900 × 320			64 / 65	1.940,-	
RBC-AMT32E						-			-	95,-	
RAV-SM1104UTP-E						319 × 840 × 840			58 / 58	1.180,-	
RBC-U31PGP(W)-E	10,00	11,20	A++ / A+	6,60	4,28	30 × 950 × 950	0,64 - 3,60	0,52 - 4,20	-	280,-	4.185,-
RAV-SP1104AT-E	(2,60 - 12,00)	(2,40 - 13,00)				1340 × 900 × 320			66 / 67	2.630,-	
RBC-AMT32E						-			-	95,-	
RAV-SM1104UTP-E						319 × 840 × 840			58 / 58	1.180,-	
RBC-U31PGP(W)-E	10,00	11,20	A++ / A+	6,57	4,28	30 × 950 × 950	0,66 - 3,60	0,53 - 4,30	-	280,-	4.605,-
RAV-SP1104AT8-E *	(2,60 - 12,00)	(2,40 - 15,60)				1340 × 900 × 320			66 / 67	3.050,-	
RBC-AMT32E						-			-	95,-	
RAV-SM1404UTP-E						319 × 840 × 840			59 / 59	1.320,-	
RBC-U31PGP(W)-E	12,50	14,00	A / A	-	-	30 × 950 × 950	0,64 - 4,40	0,52 - 4,50	-	280,-	4.635,-
RAV-SP1404AT-E	(2,60 - 14,00)	(2,40 - 16,50)				1340 × 900 × 320			68 / 69	2.940,-	
RBC-AMT32E						-			-	95,-	
RAV-SM1404UTP-E						319 × 840 × 840			59 / 59	1.320,-	
RBC-U31PGP(W)-E	12,50	14,00	A / A	-	-	30 × 950 × 950	0,66 - 4,40	0,53 - 5,50	-	280,-	4.875,-
RAV-SP1404AT8-E *	(2,60 - 14,00)	(2,40 - 18,00)				1340 × 900 × 320			68 / 69	3.180,-	
RBC-AMT32E						-			-	95,-	
RAV-SM1604UTP-E						319 × 840 × 840			60 / 60	1.490,-	
RBC-U31PGP(W)-E	14,00	16,00	B / A	-	-	30 × 950 × 950	0,66 - 5,70	0,53 - 6,51	-	280,-	5.515,-
RAV-SP1604AT8-E *	(2,60 - 16,00)	(2,40 - 19,00)				1340 × 900 × 320			68 / 70	3.650,-	
RBC-AMT32E						-			-	95,-	

❄️ Cooling 🔥 Heating * 3-phase outdoor unit

RBC-U31PGP(W)-E	Panel for wide airflow	280,-
RBC-U31PGSP(W)-E	Panel for direct airflow	300,-

Digital Inverter & Super Digital Inverter Ceiling



- Attractive design with improved energy efficiency
- Low noise level
- Large air conducting strip for optimum air distribution

Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Digital Inverter Ceiling											
RAV-SM407CTP-E	3,60	4,00	A+ / A++	5,96	4,98	235 × 950 × 690	0,38	0,78	52 / 43	880,-	2.025,-
RAV-SM404ATP-E	(0,90 - 4,00)	(0,80 - 5,00)				550 × 780 × 290			64 / 65	1.050,-	
RBC-AMT32E					-			-	95,-		
RAV-SM567CTP-E	5,00	5,30	A / A+	5,41	4,21	235 × 950 × 690	0,29 - 1,95	0,29 - 2,40	52 / 43	930,-	2.225,-
RAV-SM564ATP-E	(1,50 - 5,60)	(1,50 - 6,30)				550 × 780 × 290			63 / 65	1.200,-	
RBC-AMT32E					-			-	95,-		
RAV-SM807CTP-E	6,90	7,70	A+ / A+	5,62	4,01	235 × 1270 × 690	0,29 - 2,76	0,29 - 3,20	56 / 44	1.050,-	2.685,-
RAV-SM804ATP-E	(1,50 - 7,40)	(1,50 - 9,00)				550 × 780 × 290			65 / 69	1.540,-	
RBC-AMT32E					-			-	95,-		
RAV-SM1107CTP-E	10,00	11,20	A+ / A+	5,79	4,27	235 × 1586 × 690	0,60 - 4,10	0,60 - 4,10	59 / 47	1.170,-	3.285,-
RAV-SM1104ATP-E	(3,00 - 11,20)	(3,00 - 12,50)				890 × 900 × 320			70 / 71	2.020,-	
RBC-AMT32E					-			-	95,-		
RAV-SM1407CTP-E	12,10	12,80	D / A	-	-	235 × 1586 × 690	0,60 - 4,71	0,65 - 4,60	61 / 50	1.320,-	3.585,-
RAV-SM1404ATP-E	(3,00 - 13,20)	(3,00 - 16,00)				890 × 900 × 320			70 / 71	2.170,-	
RBC-AMT32E					-			-	95,-		
RAV-SM1607CTP-E	14,00	16,00	B / A	-	-	235 × 1586 × 690	0,65 - 6,33	0,65 - 6,89	61 / 51	1.400,-	4.345,-
RAV-SM1603AT-E	(3,00 - 16,00)	(3,00 - 18,00)				1340 × 900 × 320			68 / 70	2.850,-	
RBC-AMT32E					-			-	95,-		
Super Digital Inverter Ceiling											
RAV-SM567CTP-E	5,00	5,60	A / A+	5,45	4,28	235 × 950 × 690	0,21 - 2,26	0,17 - 2,34	52 / 52	930,-	2.475,-
RAV-SP564ATP-E	(1,20 - 5,60)	(0,90 - 7,40)				550 × 780 × 290			63 / 64	1.450,-	
RBC-AMT32E					-			-	95,-		
RAV-SM807CTP-E	7,10	8,00	A++ / A+	6,21	4,10	235 × 1270 × 690	0,30 - 2,88	0,27 - 3,50	56 / 56	1.050,-	3.085,-
RAV-SP804ATP-E	(1,90 - 8,00)	(1,30 - 10,60)				890 × 900 × 320			64 / 65	1.940,-	
RBC-AMT32E					-			-	95,-		
RAV-SM1107CTP-E	10,00	11,20	A++ / A+	6,18	4,27	235 × 1586 × 690	0,64 - 3,70	0,52 - 4,00	59 / 59	1.170,-	3.895,-
RAV-SP1104AT-E	(2,60 - 12,00)	(2,40 - 13,00)				1340 × 900 × 320			66 / 67	2.630,-	
RBC-AMT32E					-			-	95,-		
RAV-SM1107CTP-E	10,00	11,20	A++ / A+	6,35	4,41	235 × 1586 × 690	0,66 - 3,81	0,53 - 4,26	59 / 59	1.170,-	4.315,-
RAV-SP1104AT8-E *	(2,60 - 12,00)	(2,40 - 16,50)				1340 × 900 × 320			66 / 67	3.050,-	
RBC-AMT32E					-			-	95,-		
RAV-SM1407CTP-E	12,50	14,00	B / A	-	-	235 × 1586 × 690	0,64 - 4,47	0,52 - 4,60	61 / 61	1.320,-	4.355,-
RAV-SP1404AT-E	(2,60 - 14,00)	(2,40 - 16,50)				1340 × 900 × 320			68 / 69	2.940,-	
RBC-AMT32E					-			-	95,-		
RAV-SM1407CTP-E	12,50	14,00	A / A	-	-	235 × 1586 × 690	0,66 - 4,85	0,53 - 5,95	61 / 61	1.320,-	4.595,-
RAV-SP1404AT8-E *	(2,60 - 14,00)	(2,40 - 18,00)				1340 × 900 × 320			68 / 69	3.180,-	
RBC-AMT32E					-			-	95,-		
RAV-SM1607CTP-E	14,00	16,00	A / A	-	-	235 × 1586 × 690	0,66 - 6,33	0,53 - 6,96	61 / 61	1.400,-	5.145,-
RAV-SP1604AT8-E *	(2,60 - 16,00)	(2,40 - 19,00)				1340 × 900 × 320			68 / 70	3.650,-	
RBC-AMT32E					-			-	95,-		

❄️ Cooling 🔥 Heating * 3-phase outdoor unit

Accessories: RAV Ceiling models

Type	Description	Compatible	Prices excl. VAT (EUR)
TCB-DP31CE	Drain pump		290,-
TCB-KP13CE	Elbow piping kit (is required for drain pump)	Size 567	80,-
TCB-KP23CE	Elbow piping kit (is required for drain pump)	Size 807-1607	95,-
TCB-PCUC1E	Optional control kit	Functions: Analog inputs and digital inputs / outputs for external control, alarms and messages	130,-

Digital Inverter & Super Digital Inverter Duct

- Compact dimensions for installation in suspended ceilings
- Height of only 275 mm
- External static pressure up to 120 Pa
- Drain pump with 850 mm lifting height included (measured from the bottom edge of the unit)



Type	Capacity (kW)		Energy label	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Digital Inverter Duct											
RAV-SM566BTP-E						275 × 700 × 750			48 / 40	940,-	
RAV-SM564ATP-E	5,00	5,30	B / A	4,80	3,98	550 × 780 × 290	0,31 - 2,05	0,31 - 2,47	63 / 65	1.200,-	2.235,-
	(1,50 - 5,60)	(1,50 - 6,30)									
RBC-AMT32E						-			-	95,-	
RAV-SM806BTP-E						275 × 1000 × 750			49 / 41	1.070,-	
RAV-SM804ATP-E	6,70	7,70	B / A	5,04	3,83	550 × 780 × 290	0,31 - 2,76	0,31 - 3,18	65 / 69	1.540,-	2.705,-
	(1,50 - 7,40)	(1,50 - 9,00)									
RBC-AMT32E						-			-	95,-	
RAV-SM1106BTP-E						275 × 1400 × 750			55 / 48	1.320,-	
RAV-SM1104ATP-E	10,00	11,20	B / A ⁺	5,03	4,14	890 × 900 × 320	0,60 - 4,50	0,60 - 4,00	70 / 71	2.020,-	3.435,-
	(3,00 - 11,20)	(3,00 - 12,50)									
RBC-AMT32E						-			-	95,-	
RAV-SM1406BTP-E						275 × 1400 × 750			55 / 48	1.370,-	
RAV-SM1404ATP-E	12,10	12,80	D / B	-	-	890 × 900 × 320	0,60 - 4,71	0,60 - 4,55	70 / 71	2.170,-	3.635,-
	(3,00 - 13,20)	(3,00 - 16,00)									
RBC-AMT32E						-			-	95,-	
RAV-SM1606BTP-E						275 × 1400 × 750			55 / 48	1.480,-	
RAV-SM1603AT-E	14,00	16,00	D / C	-	-	1340 × 900 × 320	0,65 - 6,50	0,65 - 6,89	68 / 70	2.850,-	4.425,-
	(3,00 - 16,00)	(3,00 - 18,00)									
RBC-AMT32E						-			-	95,-	
Super Digital Inverter Duct											
RAV-SM566BTP-E						275 × 700 × 750			48 / 40	940,-	
RAV-SP564ATP-E	5,00	5,60	B / A ⁺	4,88	4,01	550 × 780 × 290	0,21 - 2,05	0,17 - 2,51	63 / 64	1.450,-	2.485,-
	(1,20 - 5,60)	(0,90 - 7,40)									
RBC-AMT32E						-			-	95,-	
RAV-SM806BTP-E						275 × 1000 × 750			49 / 41	1.070,-	
RAV-SP804ATP-E	7,10	8,00	A ⁺ / A ⁺	5,88	4,00	890 × 900 × 320	0,30 - 2,88	0,27 - 3,50	64 / 65	1.940,-	3.105,-
	(1,90 - 8,00)	(1,30 - 10,60)									
RBC-AMT32E						-			-	95,-	
RAV-SM1106BTP-E						275 × 1400 × 750			55 / 48	1.320,-	
RAV-SP1104AT-E	10,00	11,20	A ⁺ / A	5,65	3,87	1340 × 900 × 320	0,64 - 3,80	0,52 - 4,00	66 / 67	2.630,-	4.045,-
	(2,60 - 12,00)	(2,40 - 13,00)									
RBC-AMT32E						-			-	95,-	
RAV-SM1106BTP-E						275 × 1400 × 750			55 / 48	1.320,-	
RAV-SP1104AT8-E *	10,00	11,20	A ⁺ / A	5,65	3,87	1340 × 900 × 320	0,66 - 4,01	0,53 - 4,42	66 / 67	3.050,-	4.465,-
	(2,60 - 12,00)	(2,40 - 15,60)									
RBC-AMT32E						-			-	95,-	
RAV-SM1406BTP-E						275 × 1400 × 750			55 / 48	1.370,-	
RAV-SP1404AT-E	12,50	14,00	B / A	-	-	1340 × 900 × 320	0,64 - 4,47	0,52 - 4,50	68 / 69	2.940,-	4.405,-
	(2,60 - 14,00)	(2,40 - 16,50)									
RBC-AMT32E						-			-	95,-	
RAV-SM1406BTP-E						275 × 1400 × 750			55 / 48	1.370,-	
RAV-SP1404AT8-E *	12,50	14,00	B / A	-	-	1340 × 900 × 320	0,66 - 4,89	0,53 - 5,71	68 / 69	3.180,-	4.645,-
	(2,60 - 14,00)	(2,40 - 18,00)									
RBC-AMT32E						-			-	95,-	
RAV-SM1606BTP-E						275 × 1400 × 750			55 / 48	1.480,-	
RAV-SP1604AT8-E *	14,00	16,00	C / A	-	-	1340 × 900 × 320	0,66 - 6,50	0,53 - 6,96	68 / 70	3.650,-	5.225,-
	(2,60 - 16,00)	(2,40 - 19,00)									
RBC-AMT32E						-			-	95,-	

❄️ Kühlen 🔥 Heizen * 3-phasesiges Außengerät

Accessories Duct units

Type	Single price excl. VAT (EUR)
TCB-SF56C6BPE	Flange for RAV-SM566BTP-E (2 × Ø 200 mm) 120,-
TCB-SF80C6BPE	Flange for RAV-SM806BTP-E (3 × Ø 200 mm) 145,-
TCB-SF160C6BPE	Flange for RAV-SM1106/1406/1606BTP-E (4 × Ø 200 mm) 180,-

Digital Inverter & Super Digital Inverter Ultra-slim Duct



- Low unit height of only 210 mm
- Suitable for installation in suspended ceilings
- Energy-saving mode possible
- Drain pump with 850 mm lifting height installed (measured from the bottom edge of the unit)

Type	Capacity (kW)		Energy label ❄️ / 🔥	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A)) ❄️ / 🔥	Single price excl. VAT (EUR)	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
Digital Inverter Ultra-slim Duct											
RAV-SM304SDT-E						210 × 845 × 645			54 / 48	1.000,-	
RAV-SM304ATP-E	2,50 (0,90 - 3,00)	3,40 (0,80)	A++ / A+	6,10	4,48	550 × 780 × 290	0,56	0,86	61 / 62	860,-	1.955,-
RBC-AMT32E						-			-	95,-	
RAV-SM404SDT-E						210 × 845 × 645			54 / 48	1.030,-	
RAV-SM404ATP-E	3,60 (0,90 - 4,00)	4,00 (4,50)	A / A	5,55	3,88	550 × 780 × 290	0,93	0,97	64 / 65	1.050,-	2.175,-
RBC-AMT32E						-			-	95,-	
RAV-SM564SDT-E						210 × 845 × 645			60 / 51	1.050,-	
RAV-SM564ATP-E	5,00 (1,50 - 5,60)	5,30 (1,50 - 6,30)	B / A+	5,06	4,06	550 × 780 × 290	0,32 - 2,75	0,32 - 2,40	63 / 65	1.200,-	2.345,-
RBC-AMT32E						-			-	95,-	
Super Digital Inverter Ultra-slim Duct											
RAV-SM564SDT-E						210 × 845 × 645			60 / 60	1.050,-	
RAV-SP564ATP-E	5,00 (1,20 - 5,60)	5,60 (0,90 - 7,40)	A / A	5,10	3,83	550 × 780 × 290	0,21 - 2,29	0,17 - 2,37	63 / 64	1.450,-	2.595,-
RBC-AMT32E						-			-	95,-	

Digital Inverter BIG High-pressure Duct



- High-pressure model for single-application
- Combination with Digital Inverter BIG
- External static pressure up to 196 Pa

Type	Capacity (kW)		Energy label ❄️ / 🔥	Efficiency		Dimensions (H × B × D) (mm)	Power consumption (kW)		Sound power level (dB(A)) ❄️ / 🔥	Single price excl. VAT (EUR)	Set price
	❄️	🔥		SEER	SCOP		❄️	🔥			
High-pressure Duct – combination only with Digital Inverter BIG											
RAV-SM2242DT-E						470 × 1380 × 1250			74 / 74	4.190,-	
RAV-SM2244AT8-E *	20,00 (9,80 - 22,40)	22,40 (9,80 - 25,00)	D / B	-	-	1540 × 900 × 320	3,26 - 9,09	2,57 - 7,45	72 / 74	4.390,-	8.675,-
RBC-AMT32E						-			-	95,-	
RAV-SM2802DT-E						470 × 1380 × 1250			75 / 75	4.500,-	
RAV-SM2804AT8E *	23,00 (9,80 - 27,00)	27,00 (9,80 - 31,50)	D / C	-	-	1540 × 900 × 320	3,36 - 12,76	2,57 - 11,01	74 / 75	4.810,-	9.405,-
RBC-AMT32E						-			-	95,-	

❄️ Cooling 🔥 Heating * 3-phase outdoor unit

Valve kit for Digital Inverter, Super Digital Inverter, Digital Inverter Big

- Plug-in ready kit with PC board, transformer, terminal strips and installation manual
- Remote control RBC-AMT32E has to be ordered separately
- Combinable with ventilation systems and air curtains



Type	Single price excl. VAT (EUR)
Exhaust temperature control	
RAV-DXC010 Cooling and heating operation, for all Super Digital and Digital Inverter as well as DI BIG	1.050,-
Power control	
RBC-DXC031 Control unit for power control via 0-10V signal	1.150,-

RAV SPLIT SOLUTIONS for one temperature zone

- Affordable multi-solutions for one temperature zone
- Twin, Triple and Double Twin Split combinations in conjunction with a wired remote control possible
- Indoor unit have to be identical for multi-solutions (same construction and capacity)

Type	Capacity (kW)		Dimensions (H x B x D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)		
	❄️	☀️		❄️	☀️				
Digital Inverter outdoor unit 1-phase									
RAV-SM1104ATP-E	10,00	11,20	890 x 900 x 320	depending on combination with indoor unit		70 / 71	2.020,-		
RAV-SM1404ATP-E	12,10	12,80	890 x 900 x 320			70 / 71	2.170,-		
RAV-SM1603AT-E	14,00	16,00	1340 x 900 x 320			68 / 70	2.850,-		
Super Digital Inverter outdoor unit 1-phase									
RAV-SP1104AT-E	10,00	11,20	1340 x 900 x 320			66 / 67	2.630,-		
RAV-SP1404AT-E	12,50	14,00	1340 x 900 x 320			68 / 69	2.940,-		
Super Digital Inverter outdoor unit 3-phase									
RAV-SP1104AT8-E	10,00	11,20	1340 x 900 x 320	66 / 67	3.050,-				
RAV-SP1404AT8-E	12,50	14,00	1340 x 900 x 320	68 / 69	3.180,-				
RAV-SP1604AT8-E	14,00	16,00	1340 x 900 x 320	68 / 70	3.650,-				
DI – Big outdoor unit									
RAV-SM2244AT8-E	20,00	22,40	1540 x 900 x 320	3,26 - 9,09	2,57 - 7,45	72 / 74	4.390,-		
RAV-SM2804AT8-E	23,00	27,00	1540 x 900 x 320	3,36 - 12,76	2,57 - 11,01	74 / 75	4.810,-		

Table of combinations – Digital Inverter BIG

System (kW)		Indoor unit (kW) **		
❄️	☀️	Twin	Triple	Double-Twin
20,00 kW	22,40 kW	11,20 + 11,20 kW	8,00 + 8,00 + 8,00 kW	5,60 + 5,60 + 5,60 + 5,60 kW
23,00 kW	27,00 kW	14,00 + 14,00 kW	8,00 + 8,00 + 8,00 kW	8,00 + 8,00 + 8,00 + 8,00 kW

Table of combinations – Digital Inverter, Super Digital Inverter

System		Indoor unit (kW) **	
❄️	☀️	Twin	Triple
10,00 kW	11,20 kW	5,60 + 5,60 kW	–
12,50 kW	14,00 kW	8,00 + 8,00 kW	–
14,00 kW	16,00 kW	8,00 + 8,00 kW	5,60 + 5,60 + 5,60 kW

❄️ Cooling

☀️ Heating

** Indoor unit types have to be identical

Joints for Multi installations

Type			Single price excl. VAT (EUR)
Digital Inverter BIG			
RBC-TWP101E	Twin Kit	22,40 and 27,00 kW	195,-
RBC-TRP100E	Triple Kit	22,40 and 27,00 kW	270,-
RBC-DTWP101E	Double Twin Kit	22,40 and 27,00 kW	280,-
Digital Inverter / Super Digital Inverter			
RBC-TWP30E2	Twin Kit	11,20 kW	90,-
RBC-TWP50E2	Twin Kit	14,00 kW	95,-
RBC-TRP100E	Triple Kit	16,00 kW	270,-





DIGITAL INVERTER Air Curtain



- Three standard versions, each in two versions with different pressure
- Customized solutions on request
- Compatible with Digital Inverter and Super Digital Inverter
- Rapid installation
- Uncomplicated access for maintenance

Type	Capacity (kW)		Dimensions (H × B × D) (mm)	Air flow (m ³ /h)	Room height in m	Sound pressure (dB(A))	Single price excl. VAT (EUR)
	Code (HP)	Heating capacity (kW)					
Free-hanging unit							
RAV-CT101CH-M	3	8,00	260 × 1210 × 490	1600	3,00	54	7.315,-
RAV-CT101CH-L	3	8,00	260 × 1210 × 490	2210	3,20	55	7.500,-
RAV-CT151CH-M	4	11,20	260 × 1710 × 490	2400	3,00	55	8.565,-
RAV-CT151CH-L	4	11,20	260 × 1710 × 490	2950	3,20	56	8.740,-
RAV-CT201CH-M	5	14,00	260 × 2210 × 490	3200	3,00	56	9.625,-
RAV-CT201CH-L	5	14,00	260 × 2210 × 490	4420	3,20	57	10.500,-
RAV-CT251CH-M	6	16,00	260 × 2710 × 490	4000	3,00	57	10.875,-
RAV-CT251CH-L	6	16,00	260 × 2710 × 490	5160	3,20	58	11.440,-
Cassette							
RAV-CT101UH-M	3	8,00	260 × 1050 × 755	1600	3,00	54	7.690,-
RAV-CT101UH-L	3	8,00	260 × 1050 × 755	2210	3,20	55	8.025,-
RAV-CT151UH-M	4	11,20	260 × 1550 × 755	2400	3,00	55	8.625,-
RAV-CT151UH-L	4	11,20	260 × 1550 × 755	2950	3,20	56	9.000,-
RAV-CT201UH-M	5	14,00	260 × 2050 × 755	3200	3,00	56	9.750,-
RAV-CT201UH-L	5	14,00	260 × 2050 × 755	4420	3,20	57	10.565,-
RAV-CT251UH-M	6	16,00	260 × 2550 × 755	4000	3,00	57	11.600,-
RAV-CT251UH-L	6	16,00	260 × 2550 × 755	5160	3,20	58	12.375,-
Built-in unit							
RAV-CT101BH-M	3	8,00	405 - 485 × 1105 × 720	1600	3,00	54	8.065,-
RAV-CT101BH-L	3	8,00	405 - 485 × 1105 × 720	2210	3,20	55	8.315,-
RAV-CT151BH-M	4	11,20	405 - 485 × 1605 × 720	2400	3,00	55	9.565,-
RAV-CT151BH-L	4	11,20	405 - 485 × 1605 × 720	2950	3,20	56	9.750,-
RAV-CT201BH-M	5	14,00	405 - 485 × 2105 × 720	3200	3,00	56	10.815,-
RAV-CT201BH-L	5	14,00	405 - 485 × 2105 × 720	4420	3,20	57	11.625,-
RAV-CT251BH-M	6	16,00	405 - 485 × 2605 × 720	4000	3,00	57	12.165,-
RAV-CT251BH-L	6	16,00	405 - 485 × 2605 × 720	5160	3,20	58	12.625,-

Compatible outdoor units to the air curtains

Type	Capacity (kW)		Dimensions (H x B x D) (mm)	Power consumption (kW)		Sound power level (dB(A))	Single price excl. VAT (EUR)
							
RAV-SM804ATP-E	7,70		550 x 780 x 290	0,31 - 3,18		69	1.540,-
RAV-SM1104ATP-E	11,20		890 x 900 x 320	0,60 - 4,00		71	2.020,-
RAV-SM1404ATP-E	12,80		890 x 900 x 320	0,60 - 4,55		71	2.170,-
RAV-SM1603AT-E	16,00		1340 x 900 x 320	0,65 - 6,89		70	2.850,-
RAV-SP804ATP-E	8,00		890 x 900 x 320	0,27 - 3,50		65	1.940,-
RAV-SP1104AT-E	11,20		1340 x 900 x 320	0,52 - 4,00		67	2.630,-
RAV-SP1104AT8-E*	11,20		1340 x 900 x 320	0,53 - 4,42		67	3.050,-
RAV-SP1404AT-E	14,00		1340 x 900 x 320	0,52 - 4,50		69	2.940,-
RAV-SP1404AT8-E*	14,00		1340 x 900 x 320	0,53 - 5,71		69	3.180,-
RAV-SP1604AT8-E*	16,00		1340 x 900 x 320	0,53 - 6,96		70	3.650,-

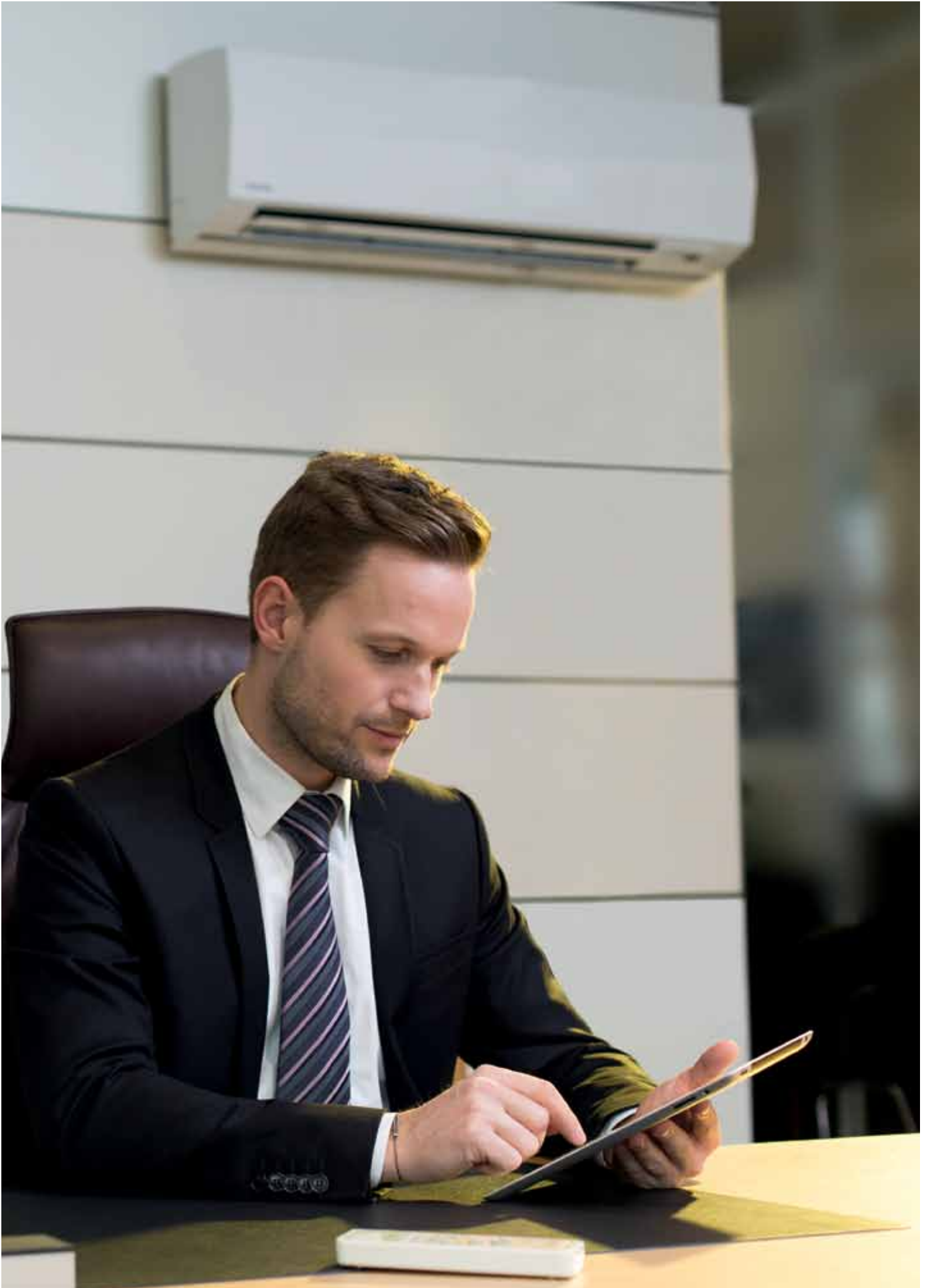
 Heating

* 3-phase outdoor unit

Example of calculation:

Built-in model with 8 kW in combination with a Digital Inverter outdoor unit

Type	Capacity (kW)		Dimensions (H x B x D) (mm)	Air flow (m³/h)	Sound pressure (dB(A))	Single price excl. VAT (EUR)	Set price
	Code (HP)	Heating capacity (kW)					
Built-in unit							
RAV-CT101BH-M			405 - 485 x 1105 x 720	1520	54	8.065,-	
RAV-SM804ATP-E	3	8,00	550 x 780 x 290	–	48 / 52	1.540,-	9.700,-
RBC-AMT32E			–	–	–	95,-	





VRF SYSTEMS

MiNi-Super Multi System (MiNi S-MMS)

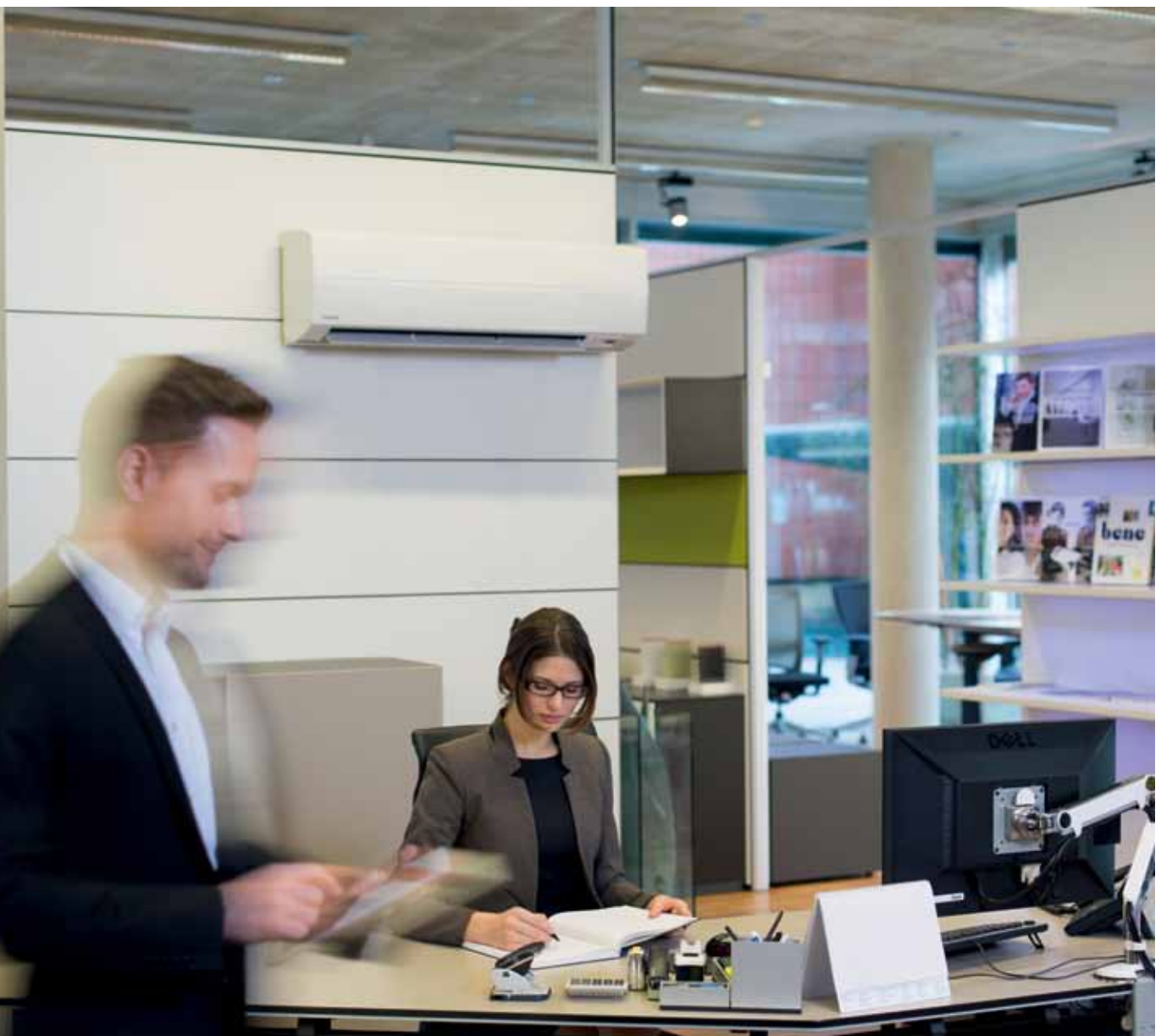
- 2-pipe heat pump system with very high efficiency up to 4,29
- 3 compact outdoor units available in the performances from 12,1 to 15,5 kW
- Depending on the outdoor unit up to 9 indoor units can be used

Super Heat Recovery System *i* (S-HRMi)

- 3-pipe system which enables simultaneous and independent cooling and heating
- Very high energy efficiency (EER up to 3,7 / COP up to 4,0) by heat recovery
- Capacity range: 8 to 42 HP (22,4 to 118 kW)

Super Modular Multi System *i* (S-MMSi)

- 2-pipe system in heat pump version
- Capacity range: 22,4 kW (8 HP) up to 135 kW (48 HP); outdoor units with 8, 10, 12, 14 and 16 HP
- Up to 48 indoor units can be used



Indoor units

Model type	HP	0,6	0,8	1,0	1,3	1,7	2,0	2,5	3,0	3,2	4,0	5,0	6,0	8,0	10,0
	kW	1,7	2,2	2,8	3,6	4,5	5,6	7,1	8,0	9,0	11,2	14,0	16,0	22,4	28

HI-WALL

Series 4

MMK-AP(...)4MH-E
MMK-AP(...)4MHP-E1



Series 3

MMK-AP(...)3H
MMK-AP(...)3HP-E1



CEILING

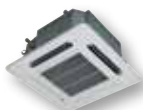
MMC-AP(...)HP-E



CASSETTE

60x60 4-way Cassette

MMU-AP(...)MH-E



4-way Cassette

MMU-AP(...)HP-E



2-way Cassette

MMU-AP(...)WH



1-way Cassette

MMU-AP(...)YH/SH-E



DUCT

Slim Duct

MMD-AP(...)SPH-E



Standard Duct

MMD-AP(...)BH(P)-E



High Static Pressure Duct - Series 4

MMD-AP(...)4H-E



High Static Pressure Duct - Series 6

MMD-AP(...)6HP-E



Duct with fresh air intake

MMD-AP(...)HFE



CHASSIS

Chassis

MML-AP(...)BH-E



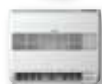
Floor

MMF-AP(...)H-E



Console

MML-AP(...)NH-E





Super Modular Multi System i (S-MMSi) Outdoor units

- Excellent efficiencies at partial load
- 2-pipe System
- Highest reliability
- Low noise level
- Flexible scheduling options
- PMV kit

Type	Capacity (kW)		Dimensions (H × B × D) (mm)	Weight (kg)	Sound pressure (dB(A)) ❄️ / 🔴	Single price excl. VAT (EUR)
	❄️	🔴				
Outdoor units „Heat pump“						
MMY-MAP0804HT8P-E	22,40	25,00	1830 × 990 × 780	242	55 / 56	8.620,-
MMY-MAP1004HT8P-E	28,00	31,50	1830 × 990 × 780	242	57 / 58	8.990,-
MMY-MAP1204HT8P-E	33,50	37,50	1830 × 990 × 780	242	59 / 62	9.960,-
MMY-MAP1404HT8P-E	40,00	45,00	1830 × 1210 × 780	329	60 / 62	12.100,-
MMY-MAP1604HT8P-E	45,00	50,00	1830 × 1210 × 780	329	62 / 64	12.990,-

❄️ Cooling 🔴 Heating

SMMSi Outdoor units series

Model name	Capacity (kW)		Quantity of outdoor units	Max. number of indoor units	Price excl. VAT (EUR)
					
MMY-MAP0804HT8P-E	22,40	25,00	1	13	8.620,-
MMY-MAP1004HT8P-E	28,00	31,50	1	16	8.990,-
MMY-MAP1204HT8P-E	33,50	37,50	1	20	9.960,-
MMY-MAP1404HT8P-E	40,00	45,00	1	23	12.100,-
MMY-MAP1604HT8P-E	45,00	50,00	1	27	12.990,-
MMY-AP1814HT8P-E	50,40	56,50	2	30	17.610,-
MMY-AP2014HT8P-E	56,00	63,00	2	33	17.980,-
MMY-AP2214HT8P-E	61,50	69,00	2	37	18.950,-
MMY-AP2414HT8P-E	68,00	76,50	2	40	19.920,-
MMY-AP2614HT8P-E	73,00	81,50	2	43	21.980,-
MMY-AP2814HT8P-E	78,50	88,00	2	47	22.950,-
MMY-AP3014HT8P-E	85,00	95,00	2	48	25.090,-
MMY-AP3214HT8P-E	90,00	100,00	2	48	25.980,-
MMY-AP3414HT8P-E	96,00	108,00	3	48	28.910,-
MMY-AP3614HT8P-E	101,00	113,00	3	48	29.880,-
MMY-AP3814HT8P-E	106,50	119,50	3	48	31.940,-
MMY-AP4014HT8P-E	112,00	127,00	3	48	32.910,-
MMY-AP4214HT8P-E	118,00	132,00	3	48	35.050,-
MMY-AP4414HT8P-E	123,50	138,00	3	48	35.940,-
MMY-AP4614HT8P-E	130,00	145,00	3	48	38.080,-
MMY-AP4814HT8P-E	135,00	150,00	3	48	38.970,-
High efficient models					
MMY-AP1624HT8P-E	45,00	50,00	2	27	17.240,-
MMY-AP2424HT8P-E	68,00	76,50	3	40	25.860,-
MMY-AP2624HT8P-E	73,00	81,50	3	43	26.230,-
MMY-AP2824HT8P-E	78,50	88,00	3	47	26.600,-
MMY-AP3024HT8P-E	85,00	95,00	3	48	26.970,-
MMY-AP3224HT8P-E	90,00	100,00	4	48	34.480,-
MMY-AP3424HT8P-E	96,00	108,00	4	48	34.850,-
MMY-AP3624HT8P-E	101,00	113,00	4	48	35.220,-
MMY-AP3824HT8P-E	106,50	119,50	4	48	35.590,-
MMY-AP4024HT8P-E	112,00	127,00	4	48	35.960,-
MMY-AP4224HT8P-E	118,00	132,00	4	48	36.930,-
MMY-AP4424HT8P-E	123,50	138,00	4	48	37.900,-
MMY-AP4624HT8P-E	130,00	145,00	4	48	38.870,-
MMY-AP4824HT8P-E	135,00	150,00	4	48	39.840,-

 Cooling  Heating

MiNi S-MMS



- Compact inverter operated outdoor units
- Low noise level
- 230 V power supply
- Diversity 80 – 130 %
- PMV-kit optional for noise-sensitive applications

Type	Capacity (kW)		Code (HP)	Dimensions (H × B × D) (mm)	Weight (kg)	Sound pressure [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔴					
Outdoor units MiNi S-MMS							
MCY-MAP0401HT ¹⁾	12,10	12,50	4	1340 × 900 × 320	117	67	4.100,-
MCY-MAP0501HT ²⁾	14,00	16,00	5	1340 × 900 × 320	117	69	4.200,-
MCY-MAP0601HT ³⁾	15,50	18,00	6	1340 × 900 × 320	117	70	4.600,-

¹⁾ max. 6 indoor units

²⁾ max. 8 indoor units

³⁾ max. 9 indoor units

Super-Heat Recovery Multi System i (S-HRMi) Outdoor units



- 3-pipe heat recovery system
- Simultaneous heating and cooling
- Indoor units and control systems for S-HRMi are identical with those of S-MMSi systems

Type	Capacity (kW)		Code (HP)	Dimensions (H × B × D) (mm)	Weight (kg)	Sound pressure [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔴					
Outdoor units S-HRMi							
MMY-MAP0804FT8-E	22,40	25,00	8	1830 × 990 × 780	259	55/57	10.800,-
MMY-MAP1004FT8-E	28,00	31,50	10	1830 × 990 × 780	259	57/59	12.150,-
MMY-MAP1204FT8-E	33,50	37,50	12	1830 × 1210 × 780	334	60/62	16.450,-
MMY-MAP1404FT8-E	40,00	45,00	14	1830 × 1210 × 780	334	62/64	17.550,-

❄️ Cooling

🔴 Heating

Optional PMV-KIT for Mini / SMMSi / SHRMi indoor units

Type	Single price excl. VAT (EUR)
RBM-PMV0362E Optional valve kit for extra quiet operation, indoor unit types 007, 009, 012	215,-
RBM-PMV0902E Optional valve kit for extra quiet operation, indoor unit types 015, 018, 024	240,-

S-HRMi Outdoor units series

Model name	Capacity (kW)		Quantity of outdoor units	Max. number of indoor units	Price excl. VAT (EUR)
	❄️	🔥			
MMY-AP1614FT8-E	45,00	50,00	2	27	21.600,-
MMY-AP1814FT8-E	50,40	56,50	2	30	22.950,-
MMY-AP2014FT8-E	56,00	63,00	2	33	24.300,-
MMY-AP2214FT8-E	61,50	69,00	2	37	28.600,-
MMY-AP2414FT8-E	68,00	76,50	2	40	29.700,-
MMY-AP2614FT8-E	73,00	81,50	2	43	34.000,-
MMY-AP2814FT8-E	78,50	88,00	2	47	35.100,-
MMY-AP3014FT8-E	85,00	95,00	3	48	36.450,-
MMY-AP3214FT8-E	90,00	100,00	3	48	40.750,-
MMY-AP3414FT8-E	96,00	108,00	3	48	41.850,-
MMY-AP3614FT8-E	101,00	113,00	3	48	46.150,-
MMY-AP3814FT8-E	106,50	119,50	3	48	47.250,-
MMY-AP4014FT8-E	112,00	127,00	3	48	51.550,-
MMY-AP4214FT8-E	118,00	132,00	3	48	52.650,-



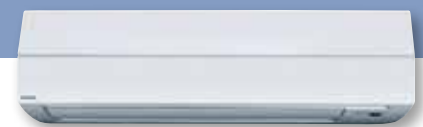
S-HRMi flow selectors

Type	Connectable indoor unit types	Dimensions (H × B × D) (mm)	Weight (kg)	Single price excl. VAT (EUR)
RBM-Y1123FE	007 bis 030	190 × 250 × 160	5	750,-
RBM-Y1803FE	036 bis 056	190 × 250 × 160	5	800,-
RBM-Y2803FE	072 bis 096	200 × 377 × 200	8	1.400,-
RBC-CBK15FE Connection cable, 15 m (not in stock)				200,-

❄️ Cooling 🔥 Heating

VRF Hi-wall – Series 3

- Simple, elegant design with a flat panel
- Same dimensions for all types
- Infrared remote control included



Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔥	Code (HP)				
Hi-wall							
MMK-AP0073H	2,20	2,50	0,8	320 × 1050 × 228	570	35 / 28	780,-
MMK-AP0093H	2,80	3,20	1	320 × 1050 × 228	600	37 / 28	790,-
MMK-AP0123H	3,60	4,00	1,25	320 × 1050 × 228	600	37 / 28	800,-
MMK-AP0153H	4,50	5,00	1,7	320 × 1050 × 228	840	41 / 33	895,-
MMK-AP0183H	5,60	6,30	2,0	320 × 1050 × 228	840	41 / 33	920,-
MMK-AP0243H	7,10	8,00	2,5	320 × 1050 × 228	1020	46 / 34	930,-

❄️ Cooling 🔥 Heating

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed

VRF Hi-wall – Series 3 with external PMV kit



- Series E1 without built-in Pulse motor valve
- Extremely quiet
- Must be installed exclusively in connection with the PMV kit!
- Especially for noise-sensitive applications

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)	Set price excl. VAT (EUR)
	❄	🔥	Code (HP)					
Hi-wall								
MMK-AP0073HP-E1	2,20	2,50	0,8	320 × 1050 × 228	570	35 / 28	780,-	995,-
RBM-PMV0363E							215,-	
MMK-AP0093HP-E1	2,80	3,20	1	320 × 1050 × 228	600	37 / 28	790,-	1.005,-
RBM-PMV0363E							215,-	
MMK-AP0123HP-E1	3,60	4,00	1,25	320 × 1050 × 228	600	37 / 28	800,-	1.015,-
RBM-PMV0363E							215,-	
MMK-AP0153HP-E1	4,50	5,00	1,7	320 × 1050 × 228	840	41 / 33	895,-	1.135,-
RBM-PMV0903E							240,-	
MMK-AP0183HP-E1	5,60	6,30	2,0	320 × 1050 × 228	840	41 / 33	920,-	1.160,-
RBM-PMV0903E							240,-	
MMK-AP0243HP-E1	7,10	8,00	2,5	320 × 1050 × 228	1020	46 / 34	930,-	1.170,-
RBM-PMV0903E							240,-	

❄ Cooling 🔥 Heating

VRF Hi-wall – Series 4



- Modern design
- Very compact dimensions
- Infrared remote control with a 24-hours timer included

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄	🔥	Code (HP)				
Hi-wall							
MMK-AP0074MH-E	2,20	2,50	0,8	275 × 790 × 208	480	35 / 29	780,-
MMK-AP0094MH-E	2,80	3,20	1	275 × 790 × 208	510	36 / 29	790,-
MMK-AP0124MH-E	3,60	4,00	1,25	275 × 790 × 208	540	37 / 29	800,-

VRF Hi-wall – Series 4 with external PMV kit



- Series E1 without built-in Pulse motor valve
- Extremely quiet
- Must be installed exclusively in connection with the PMV kit!
- Especially for noise-sensitive applications

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)	Set price excl. VAT (EUR)
	❄️	🔥	Code (HP)					
Hi-wall								
MMK-AP0074MHP-E1	2,20	2,50	0,8	275 × 790 × 208	480	35 / 29	780,-	995,-
RBM-PMV0363E							215,-	
MMK-AP0094MHP-E1	2,80	3,20	1	275 × 790 × 208	510	36 / 29	790,-	1.005,-
RBM-PMV0363E							215,-	
MMK-AP0124MHP-E1	3,60	4,00	1,25	275 × 790 × 208	540	37 / 29	800,-	1.015,-
RBM-PMV0363E							215,-	

❄️ Cooling 🔥 Heating

VRF Ceiling



- New, elegant design with large air conducting strip for optimum air distribution in the room
- Higher efficiency through the use of a new heat exchanger
- More air volume with simultaneous noise reduction
- Easy installation

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔥	Code (HP)				
Ceiling							
MMC-AP0157HP-E	4,50	5,00	1,7	235 × 950 × 690	840	36 / 28	1.290,-
MMC-AP0187HP-E	5,60	6,30	2	235 × 950 × 690	960	37 / 28	1.360,-
MMC-AP0247HP-E	7,10	8,00	2,5	235 × 1270 × 690	1.440	41 / 29	1.430,-
MMC-AP0277HP-E	8,00	9,00	3	235 × 1270 × 690	1.440	41 / 29	1.540,-
MMC-AP0367HP-E	11,20	12,50	4	235 × 1586 × 690	1.860	44 / 32	1.690,-
MMC-AP0487HP-E	14,00	16,00	5	235 × 1586 × 690	1.860	44 / 35	1.890,-
MMC-AP0567HP-E	16,00	18,00	6	235 × 1586 × 690	2.040	46 / 36	1.990,-

TCB-DP31CE	Drain pump; Lift 600 mm, measured from the bottom edge of the unit	290,-
TCB-KP13CE	Elbow piping kit; MMC-AP0157/0187HP-E	80,-
TCB-KP23CE	Elbow piping kit; MMC-AP0247 till 0567HP-E	95,-
TCB-PCUC1E	Control kit (Functions: Analog inputs and digital inputs / outputs for external control, alarms and messages)	130,-

❄️ Cooling 🔥 Heating

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed



Accessories

Type	Single price excl. VAT (EUR)
TCB-FF101URE2 Spigot for fresh air intake ø 100 mm	55,-

VRF Slim Duct



- Height of only 210 mm
- Drain pump with 850 mm lifting height included (measured from bottom edge of unit)
- Air supply from below or behind possible, filter for rear air supply including

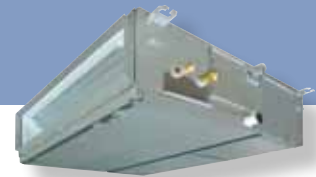
Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure (dB(A))**		Single price excl. VAT (EUR)
			Code (HP)			lower air intake	upper air intake	
Slim Duct								
MMD-AP0054SPH-E	1,70	1,90	0,60	210 × 845 × 645	490	35 / 30	27 / 24	1.260,-
MMD-AP0074SPH-E	2,20	2,50	0,8	210 × 845 × 645	540	36 / 30	28 / 24	1.300,-
MMD-AP0094SPH-E	2,80	3,20	1	210 × 845 × 645	540	36 / 30	28 / 24	1.330,-
MMD-AP0124SPH-E	3,60	4,00	1,25	210 × 845 × 645	600	38 / 32	29 / 25	1.400,-
MMD-AP0154SPH-E	4,50	5,00	1,7	210 × 845 × 645	690	39 / 33	32 / 28	1.460,-
MMD-AP0184SPH-E	5,60	6,30	2	210 × 845 × 645	780	40 / 36	33 / 29	1.530,-
MMD-AP0244SPH-E	7,10	8,00	2,5	210 × 1140 × 645	1080	49 / 44	38 / 33	1.650,-
MMD-AP0274SPH-E	8,00	9,00	3	210 × 1140 × 645	1080	49 / 44	38 / 33	1.780,-

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed



Accessories

Type	Single price excl. VAT (EUR)
TCB-FF101URE2 Spigot for fresh air intake ø 100 mm	55,-

VRF Standard Duct



- Air supply from below or behind possible, filter for rear air supply including
- Drain pump with 850 mm lifting height included (measured from bottom edge of unit)
- Easy installation

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
			Code (HP)				
Standard Duct							
MMD-AP0076BHP-E	2,20	2,50	0,8	275 × 700 × 750	540	29 / 23	1.230,-
MMD-AP0096BHP-E	2,80	3,20	1	275 × 700 × 750	570	30 / 23	1.240,-
MMD-AP0126BHP-E	3,60	4,00	1,25	275 × 700 × 750	570	30 / 23	1.260,-
MMD-AP0156BHP-E	4,50	5,00	1,7	275 × 700 × 750	800	33 / 25	1.300,-
MMD-AP0186BHP-E	5,60	6,30	2	275 × 700 × 750	800	33 / 25	1.350,-
MMD-AP0246BHP-E	7,10	8,00	2,5	275 × 1000 × 750	1200	36 / 27	1.500,-
MMD-AP0276BHP-E	8,00	9,00	3	275 × 1000 × 750	1200	36 / 27	1.560,-
MMD-AP0306BHP-E	9,00	10,00	3,2	275 × 1000 × 750	1260	36 / 27	1.700,-
MMD-AP0366BHP-E	11,20	12,50	4	275 × 1400 × 750	1920	40 / 33	1.860,-
MMD-AP0486BHP-E	14,00	16,00	5	275 × 1400 × 750	2100	40 / 33	2.000,-
MMD-AP0566BHP-E	16,00	18,00	6	275 × 1400 × 750	2100	40 / 33	2.200,-

 Cooling  Heating

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed

Accessories

Type	Compatible	Single price excl. VAT (EUR)
TCB-SF56C6BPE	Flange MMD-AP0076/0096/0126/0156/0186BH-E (2 × ø 200 mm)	120,-
TCB-SF80C6BPE	Flange MMD-AP0246/0276/0306BH-E (3 × ø 200 mm)	145,-
TCB-SF160C6BPE	Flange MMD-AP0366/0486/0566BH-E (4 × ø 200 mm)	180,-
TCB-FF101URE2	Spigot for fresh air intake ø 100 mm	55,-

VRF High Static Pressure Duct



- External static pressure up to 196 Pa
- Inspection hole for easier maintenance
- Perfect air distribution over multiple air outlets possible

Series 4

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (standard) (m³/h)	Sound pressure [dB(A)]	Single price excl. VAT (EUR)
	❄	☀	Code (HP)				
High Static Pressure Duct							
MMD-AP0184H-E	5,60	6,30	2	380 × 850 × 660	900	37	1.790,-
MMD-AP0244H-E	7,10	8,00	2,5	380 × 850 × 660	1320	40	1.955,-
MMD-AP0274H-E	8,00	9,00	3	380 × 850 × 660	1320	40	2.040,-
MMD-AP0364H-E	11,20	12,50	4	380 × 850 × 660	1600	40	2.130,-
MMD-AP0484H-E	14,00	16,00	5	380 × 1200 × 660	2100	40	2.235,-
MMD-AP0724H-E	22,40	25,00	8	470 × 1380 × 1250	3600	49	4.890,-
MMD-AP0964H-E	28,00	31,50	10	470 × 1380 × 1250	4200	50	5.100,-

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference

Accessories

Type		Single price excl. VAT (EUR)
TCB-DP31DE	Drain pump for size 184-484	1.200,-
TCB-DP32DE	Drain pump for size 724-964	1.200,-

Series 6

- Small design
- Low weight
- Drain pump with 850 mm lifting height included (measured from bottom edge of unit)
- Available from spring 2015



Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (standard) (m³/h)	Sound pressure [dB(A)]	Single price excl. VAT (EUR)
	❄	☀	Code (HP)				
High Static Pressure Duct							
MMD-AP0186HP-E	5,60	6,30	2	298 × 1000 × 750	800	37	1.790,-
MMD-AP0246HP-E	7,10	8,00	2,5	298 × 1000 × 750	1200	38	1.955,-
MMD-AP0276HP-E	8,00	9,00	3	298 × 1000 × 750	1200	38	2.040,-
MMD-AP0366HP-E	11,20	12,50	4	298 × 1400 × 750	1920	41	2.130,-
MMD-AP0486HP-E	14,00	16,00	5	298 × 1400 × 750	2100	42	2.235,-
MMD-AP0566HP-E	16,00	18,00	6	298 × 1400 × 750	2400	45	2.400,-

VRF Duct with fresh air intake



- Perfect solution for an increased need for fresh air
- Preheating and precooling
- Unit can only be used in combination with other VRF master indoor units!

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	☀️	Code (HP)				
Duct with fresh air intake							
MMD-AP0481HFE	14,00	8,90	5	492 × 1392 × 1262	1080	45 / 41	2.550,-
MMD-AP0721HFE	22,40	13,90	8	492 × 1392 × 1262	1680	46 / 44	5.100,-
MMD-AP0961HFE	28,00	17,40	10	492 × 1392 × 1262	2100	46 / 44	5.500,-

❄️ Cooling ☀️ Heating

Accessories

Type	Single price excl. VAT (EUR)
TCB-DP32DFE Drain pump	680,-

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference

Nominal conditions:

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

Heating: Outdoor temperature 0°C DB / -2,9°C WB, Setpoint temperature 25°C

Refrigerant pipe: Length 7,5 m / Height 0 m

** Specification with the highest / lowest fan speed



VRF 60×60 4-way Cassette



- Fits into euro-grid suspended ceilings
- Drain pump with 850 mm lifting height included (measured from bottom edge of unit)
- Height of only 268 mm
- Fresh air connection possible

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔥	Code (HP)				
Compact 4-way Cassette 60 × 60							
MMU-AP0054MH-E	1,70	1,90	0,6	268 × 575 × 575	486	35 / 28	1.250,-
MMU-AP0074MH-E	2,20	2,50	0,8	268 × 575 × 575	552	36 / 38	1.290,-
MMU-AP0094MH-E	2,80	3,20	1	268 × 575 × 575	570	37 / 28	1.390,-
MMU-AP0124MH-E	3,60	4,00	1,25	268 × 575 × 575	594	37 / 29	1.450,-
MMU-AP0154MH-E	4,50	5,00	1,7	268 × 575 × 575	660	40 / 30	1.530,-
MMU-AP0184MH-E	5,6	6,30	2	268 × 575 × 575	762	44 / 34	1.590,-
Panel							
RBC-UM11PG(W)-E	-	-	-	27 × 700 × 700	-	-	310,-

Accessories

Type	Single price excl. VAT (EUR)
TCB-FF101URE2 Spigot for fresh air intake ø 100 mm	55,-

VRF 4-way Cassette – Standard



- Choice of 2 different panels
- Drain pump with 850 mm lifting height included (measured from bottom edge of unit)
- Connection for fresh air intake with an external fan
- Individual air flow for optimal, draft-free air distribution

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔥	Code (HP)				
4-way Cassette							
MMU-AP0094HP-E	2,80	3,20	1	256 × 840 × 840	800	30 / 27	1.150,-
MMU-AP0124HP-E	3,60	4,00	1,25	256 × 840 × 840	800	30 / 37	1.190,-
MMU-AP0154HP-E	4,50	5,00	1,7	256 × 840 × 840	930	31 / 27	1.240,-
MMU-AP0184HP-E	5,60	6,30	2	256 × 840 × 840	1050	32 / 27	1.280,-
MMU-AP0244HP-E	7,10	8,00	2,5	256 × 840 × 840	1290	35 / 28	1.340,-
MMU-AP0274HP-E	8,00	9,00	3	256 × 840 × 840	1290	35 / 28	1.410,-
MMU-AP0304HP-E	9,00	10,00	3,2	256 × 840 × 840	1320	38 / 30	1.490,-
MMU-AP0364HP-E	11,20	12,50	4	319 × 840 × 840	1970	43 / 32	1.750,-
MMU-AP0484HP-E	14,00	16,00	5	319 × 840 × 840	2130	46 / 33	1.920,-
MMU-AP0564HP-E	16,00	18,00	6	319 × 840 × 840	2130	46 / 33	2.000,-
Panels							
RBC-U31PGP(W)-E	for wide airflow			30 × 950 × 950	-	-	280,-
RBC-U31PGSP(W)-E	for direct airflow			30 × 950 × 950	-	-	300,-

❄️ Cooling 🔥 Heating

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed

Accessories

Type	Single price excl. VAT (EUR)
TCB-FF101URE2 Spigot for fresh air intake ø 100 mm	55,-

VRF 2-way Cassette



- Small sizes available (from 2,2 kW upwards)
- Fresh air intake
- Quiet operation
- Drain pump with 850 mm lifting height included (measured from bottom edge of unit)

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄	🔥	Code (HP)				
2-way Cassette							
MMU-AP0072WH	2,20	2,50	0,8	295 × 815 × 570	558	34 / 30	1.300,-
MMU-AP0092WH	2,80	3,20	1,0	295 × 815 × 570	558	34 / 30	1.350,-
MMU-AP0122WH	3,60	4,00	1,25	295 × 815 × 570	558	34 / 30	1.380,-
MMU-AP0152WH	4,50	5,00	1,7	295 × 815 × 570	600	35 / 30	1.420,-
MMU-AP0182WH	5,60	6,30	2,0	345 × 1180 × 570	900	35 / 30	1.460,-
MMU-AP0242WH	7,10	8,00	2,5	345 × 1180 × 570	1050	38 / 33	1.550,-
MMU-AP0272WH	8,00	9,00	3,0	345 × 1180 × 570	1050	38 / 33	1.600,-
MMU-AP0302WH	9,00	10,00	3,2	345 × 1180 × 570	1260	40 / 34	1.730,-
MMU-AP0362WH	11,20	12,50	4,0	345 × 1600 × 570	1740	42 / 36	2.070,-
MMU-AP0482WH	14,00	16,00	5,0	345 × 1600 × 570	1800	43 / 37	2.250,-
MMU-AP0562WH	16,00	18,00	6,0	345 × 1600 × 570	2040	46 / 39	2.490,-
Panels							
RBC-UW283PG(W)-E	MMU-AP0072 till 0152WH			20 × 1050 × 680	–	–	390,-
RBC-UW803PG(W)-E	MMU-AP0182 till 0302WH			20 × 1415 × 680	–	–	520,-
RBC-UW1403PG(W)-E	MMU-AP0362 till 0562WH			20 × 1835 × 680	–	–	600,-

❄ Cooling 🔥 Heating

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed

Accessories

Type	Single price excl. VAT (EUR)
TCB-FF151US-E Spigot for fresh air intake ø 150 mm	60,-

VRF 1-way Cassette



- Small sizes available (from 2,2 kW upwards)
- Fresh air intake
- Quiet operation
- Drain pump with 850 mm lifting height included (measured from bottom edge of unit)

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔥	Code (HP)				
1-way Cassette							
MMU-AP0074YH-E	2,20	2,50	0,8	235 × 850 × 400	540	42 / 34	1.480,-
MMU-AP0094YH-E	2,80	3,20	1	235 × 850 × 400	540	42 / 34	1.500,-
MMU-AP0124YH-E	3,60	4,00	1,25	235 × 850 × 400	540	42 / 34	1.530,-
MMU-AP0154SH-E	4,50	5,00	1,7	200 × 1000 × 710	750	37 / 32	1.420,-
MMU-AP0184SH-E	5,60	6,30	2	200 × 1000 × 710	780	38 / 34	1.580,-
MMU-AP0244SH-E	7,10	8,00	2,5	200 × 1000 × 710	1140	45 / 37	1.680,-
Panels							
RBC-UY136PG	MMU-AP0074/0094/0124YH-E			18 × 1050 × 470	–	–	380,-
RBC-US21PGE	MMU-AP0154/0184/0244SH-E			20 × 1230 × 800	–	–	440,-

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed

Accessories

Type	Single price excl. VAT (EUR)
TCB-FF101URE2 Spigot for fresh air intake ø 100 mm	55,-

VRF Chassis



- Perfect for offices and other commercial buildings
- Through complete shoring no influence on the interior

Type	Capacity (kW)*			Dimensions (H × B × D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔥	Code (HP)				
Chassis							
MML-AP0074BH-E	2,20	2,50	0,8	600 × 745 × 220	460	36 / 32	1.430,-
MML-AP0094BH-E	2,80	3,20	1	600 × 745 × 220	460	36 / 32	1.450,-
MML-AP0124BH-E	3,60	4,00	1,25	600 × 745 × 220	460	36 / 32	1.500,-
MML-AP0154BH-E	4,50	5,00	1,7	600 × 1045 × 220	740	36 / 32	1.530,-
MML-AP0184BH-E	5,60	6,30	2	600 × 1045 × 220	740	36 / 32	1.550,-
MML-AP0244BH-E	7,10	8,00	2,5	600 × 1045 × 220	950	42 / 33	1.580,-

❄️ Cooling 🔥 Heating

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed

VRF Console

- Bi-flow console with air outlet at the top and/or at the bottom
- Large centrifugal fan for extra quiet operation
- Infrared remote control included



Type	Capacity (kW)*			Dimensions (H x B x D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔥	Code (HP)				
Console							
MML-AP0074NH-E	2,20	2,50	0,8	600 x 700 x 220	510	38 / 26	1.120,-
MML-AP0094NH-E	2,80	3,20	1	600 x 700 x 220	510	38 / 26	1.180,-
MML-AP0124NH-E	3,60	4,00	1,25	600 x 700 x 220	552	40 / 29	1.250,-
MML-AP0154NH-E	4,50	5,00	1,7	600 x 700 x 220	624	43 / 31	1.340,-
MML-AP0184NH-E	5,60	6,30	2	600 x 700 x 220	726	47 / 34	1.390,-

VRF Floor

- Easy installation because of flexible connection variations
- Air outlet from the front or the rear



Type	Capacity (kW)*			Dimensions (H x B x D) (mm)	Air flow volume (max.) (m³/h)	Sound pressure** [dB(A)]	Single price excl. VAT (EUR)
	❄️	🔥	Code (HP)				
Floor							
MMF-AP0156H-E	4,50	5,00	1,7	1750 x 600 x 210	900	46 / 37	2.110,-
MMF-AP0186H-E	5,60	6,30	2	1750 x 600 x 210	900	46 / 37	2.140,-
MMF-AP0246H-E	7,10	8,00	2,5	1750 x 600 x 210	1200	49 / 39	2.230,-
MMF-AP0276H-E	8,00	9,00	3	1750 x 600 x 210	1200	49 / 39	2.240,-
MMF-AP0366H-E	11,20	12,50	4	1750 x 600 x 390	1920	51 / 41	2.400,-
MMF-AP0486H-E	14,00	16,00	5	1750 x 600 x 390	2160	54 / 44	2.430,-
MMF-AP0566H-E	16,00	18,00	6	1750 x 600 x 390	2160	54 / 44	2.450,-

❄️ Cooling 🔥 Heating Not in stock - delivery time for floor units on request

* Standard cable lengths 5 m main lines, branch lines 2,5 m, 0 m height difference ** Specification with the highest / lowest fan speed

VRF Valve kit for exhaust temperature control



- Plug-in ready, wired kit consisting of electronic control box, PC board, transformer, wired remote control RBC-AMT32E, PMV motor, all necessary sensors and installation manual
- Used in conjunction with ventilation systems and air curtains

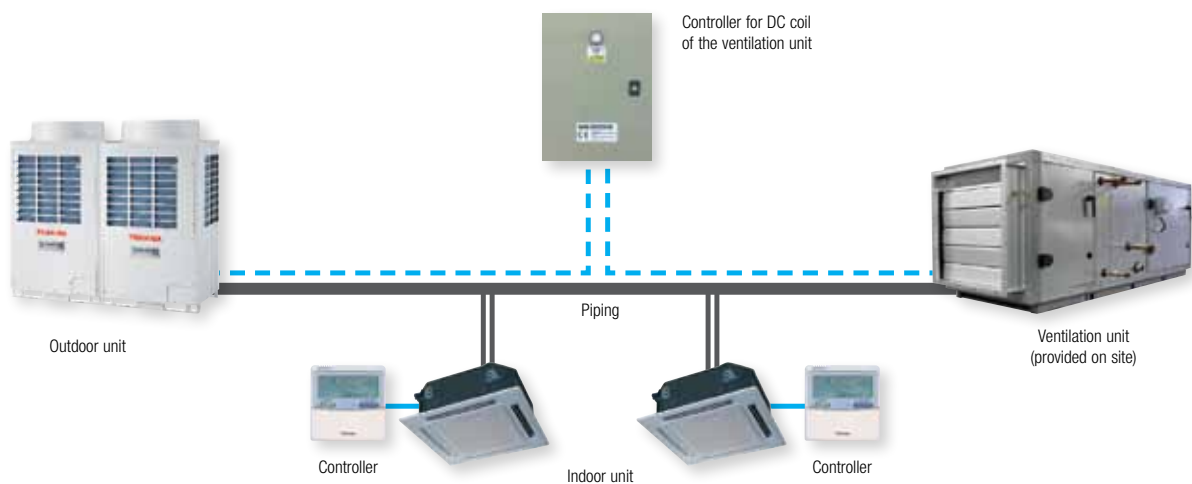
Type		Single price excl. VAT (EUR)
MM-DXC010	Control unit (Master)	1.000,-
MM-DXC012	Control unit (Follower)	770,-
MM-DXV080	Valve kit up to 8 kW	460,-
MM-DXV140	Valve kit up to 14 kW	460,-
MM-DXV280	Valve kit up to 28 kW	460,-

VRF Valve kit for power control 0-10V



- Plug-in ready, wired kit consisting of electronic control box, PC board, transformer, wired remote control RBC-AMT32E, PMV motor, all necessary sensors and installation manual
- Used in conjunction with ventilation systems and air curtains
- Cable remote control required for startup

Type		Single price excl. VAT (EUR)
RBC-DXC031	Control unit for power control through 0-10 V signal	1.150,-
MM-DXV141	Valve kit for 11,2 kW, 14,0 kW and 16,0 kW	290,-
MM-DXV281	Valve kit for 22,4 kW and 28,0 kW	290,-



Air handling units with recuperator

- Ventilation with heat recovery
- High-efficient fresh air supply
- Up to 75 % of the energy can be recovered
- TCC-link-connection for connection to BMS systems

Type	Capacity DX (WRG) ❄️	Capacity DX (WRG) 🔥	Air flow volume (m³/h) high	Dimensions (H × B × D) (mm)	Pipe connection Ø (mm)	Single price excl. VAT (EUR)
Air handling unit with recuperator						
VN-M150HE	---	---	150	290 × 900 × 900	100	1.550,-
VN-M250HE	---	---	250	290 × 900 × 900	150	1.600,-
VN-M350HE	---	---	350	290 × 900 × 900	150	1.720,-
VN-M500HE	---	---	500	350 × 1140 × 1140	200	2.200,-
VN-M650HE	---	---	650	350 × 1140 × 1140	200	2.590,-
VN-M800HE	---	---	800	400 × 1189 × 1189	250	3.040,-
VN-M1000HE	---	---	1000	400 × 1189 × 1189	250	3.470,-
VN-M1500HE	---	---	1500	810 × 1189 × 1189	250	5.720,-
VN-M2000HE	---	---	2000	810 × 1189 × 1189	250	6.500,-
Air handling unit with recuperator and DX coil						
MMD-VN502HEXE *	4,10 (1,30)	5,53 (2,33)	500	430 × 1140 × 1690	200	3.390,-
MMD-VN802HEXE *	6,56 (2,06)	8,61 (3,61)	800	430 × 1189 × 1739	250	4.015,-
MMD-VN1002HEXE *	8,25 (2,32)	10,92 (4,32)	950	430 × 1189 × 1739	250	4.720,-
Air handling unit with recuperator, DX coil and humidifier						
MMD-VNK502HEXE *	4,10 (1,30)	5,53 (2,33)	500	430 × 1140 × 1690	200	4.485,-
MMD-VNK802HEXE *	6,56 (2,06)	8,61 (3,61)	800	430 × 1189 × 1739	250	6.000,-
MMD-VNK1002HEXE *	8,25 (2,32)	10,92 (4,32)	350	430 × 1189 × 1739	250	7.050,-

* in connection with SMMSi outdoor units only

Accessories

Type		Single price excl. VAT (EUR)
TCB-DP31HEXE	Drain pump for all ventilation systems of series „HEXE“	650,-
NRC-01HE	Remote control	110,-
NRB-1HE	ON/OFF, bypass, Low/High adapter for Air handling unit with recuperator	110,-

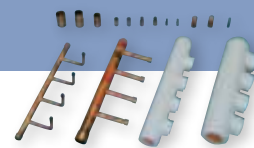
VRF Hot Water Module

- Highly efficient space heating and domestic hot water
- Water outlet temperature range of +25 - +45°C
- Electric backup heater support is provided externally
- Very wide operating range for heating water and domestic hot water
- Space-saving design
- Leaving water temperature control
- Connectable to all SMMSi units



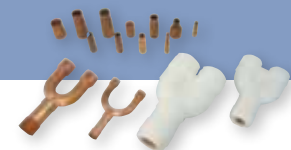
Model	Heating capacity [kW]	Water flow Standard / Min. [l/min]	Dimensions (H × B × D) (mm)	Water temperature	Single price excl. VAT (EUR)
MMW-AP0271LQ-E	8,00	22,90 / 19,50	580 x 400 x 250	25-50°C	3.100,-
MMW-AP0561LQ-E	16,00	45,80 / 38,90	580 x 400 x 250	25-50°C	3.200,-

S-MMSi / MiNi-SMMS (2-pipe-system): Branching Joints and Headers



Type	Description	Connected indoor unit capacity		Single price excl. VAT (EUR)
		(kW)	(HP)	
Y-shape (two Y-shapes in each packing unit)				
RBM-BY55E	Y- shape	< 18 kW	< 6,4 kW	90,-
RBM-BY105E		18 kW < Capacity < 37 kW	6,4 < Capacity < 14,2	100,-
RBM-BY205E		37 kW < Capacity < 71 kW	14,2 < Capacity < 25,2	180,-
RBM-BY305E		71 kW < Capacity	25,2 < Capacity	225,-
4/8-Branch Header (two 4/8-branch headers in each packing unit)				
RBM-HY1043E	4-Branch Header	18 kW < Capacity < 37 kW	6,4 < Capacity < 14,2	210,-
RBM-HY2043E		37 kW < Capacity < 71 kW	14,2 < Capacity < 25,2	230,-
RBM-HY1083E	8-Branch Header	18 kW < Capacity < 37 kW	6,4 < Capacity < 14,2	340,-
RBM-HY2083E		37 kW < Capacity < 71 kW	14,2 < Capacity < 25,2	400,-
T-Joints (two T-joints in each packing unit)				
RBM-BT14E	T-shaped connector; in conjunction with 8/10/12 HP units			290,-
RBM-BT24E	T-shaped connector; in conjunction with 14/16 HP units			330,-

S-HRMi (3-pipe-system): Branching Joints and Headers



Type	Description	Connected indoor unit capacity		Single price excl. VAT (EUR)
		(kW)	(HP)	
Y-shape (three Y-shapes in each packing unit)				
RBM-BY55FE	Y- shape	< 18 kW	< 6,4 kW	130,-
RBM-BY105FE		18 kW < Capacity < 37 kW	6,4 < Capacity < 14,2	150,-
RBM-BY205FE		37 kW < Capacity < 71 kW	14,2 < Capacity < 25,2	210,-
RBM-BY305FE		71 kW < Capacity	25,2 < Capacity	290,-
4/8-Branch Header (three 4/8-branch headers in each packing unit)				
RBM-HY1043FE	4-Branch Header	< 37 kW	< 14,2	400,-
RBM-HY2043FE		37 kW < Capacity < 71 kW	14,2 < Capacity < 25,2	430,-
RBM-HY1083FE	8-Branch Header	< 37 kW	< 14,2	540,-
RBM-HY2083FE		37 kW < Capacity < 71 kW	14,2 < Capacity < 25,2	580,-
T-Joints (three T-joints in each packing unit)				
RBM-BT14FE	T-shaped connector (till 26 HP)			290,-
RBM-BT24FE	T-shaped connector (from 26 HP)			340,-





LOCAL REMOTE CONTROLS

Type / Description	Single price excl. VAT (EUR)	
	<p>Easy remote control: RBC-AS41E LCD display, temperature setting, mode selector switch, fan control, louver control, room temperature sensor, up to 8 units controllable simultaneously, fault diagnosis system, filter warning light, DN-codes cannot be moved</p>	105,-
	<p>Remote control: RBC-AMT32E LCD display, temperature setting, mode selector switch, fan speed control, 168 hours on / off timer, louver control, room temperature sensor, up to 8 units controllable simultaneously, fault diagnosis system, filter warning light, DN-codes adjustable</p>	95,-
	<p>Remote control with integrated weekly timer: RBC-AMS41E Same functions as remote control RBC-AMT32E but with an integrated weekly timer, in doing so 8 occasions per day can be programmed, DN-codes adjustable</p>	110,-
	<p>Comfort remote control: RBC-AMS51E-ES Wired remote control with weekly timer and multilingual menu navigation (D, E), modern design, backlight, hot keys for easy operation, room temperature sensor integrated, DN-codes adjustable</p>	145,-
	<p>Infrared remote control + receiver kit for the 4-way-cassette (DI/S-DI series 4 or SMMSi series 4): RBC-AX32U(W)-E Like RBC-AMT32E but wireless, not compatible with weekly timer; address setting as well as the setting for the automatic restart function are not possible via the infrared remote control</p>	230,-
	<p>Infrared remote control and receiver for 2-way-cassette: RBC-AX23UW(W)-E Functions such as RBC-AMT32E but wireless, not compatible with weekly timer; receiver kit can be installed easily on the unit; address setting as well as the setting for the automatic restart function not possible via the infrared remote control</p>	260,-
	<p>Infrared remote control + receiver kit for ceiling types and 1-way cassette (series SH): RBC-AX33CE Like RBC-AMT32E but wireless, not compatible with weekly timer; receiver kit can be installed easily on the unit; address setting as well as the setting for the automatic restart function not possible via the infrared remote control</p>	240,-
	<p>Infrared remote control with external receiver kit for 60x60 4-way cassette: TCB-AX32E2 Infrared remote control kit suitable for all DI/S-DI and SMMSi indoor units; installation on the wall; address setting as well as the setting for the automatic restart function not possible via the infrared remote control</p>	320,-

CENTRAL REMOTE CONTROLS

Type / Description	Single price excl. VAT (EUR)	
	<p>Central remote control: TCB-SC642TLE2 Individual control of up to 64 units or unit groups (8 units can be controlled simultaneously per zone), SMMSi indoor units can be controlled directly, DI and S-DI indoor units need the adapter TCB-PCNT30TLE2</p>	1.000,-
	<p>7-day-timer: TCB-EXS21TLE LCD display, 3 different on-/off-time settings (programs) per day programmable, each week-day (Mo-Su) can be programmed individually with these 3 programs, holiday function, combination with TCB-SC642TLE2 (central remote control) or alone directly to the TCC-link bus</p>	390,-
	<p>On-/Off control for 16 indoor units: TCB-CC163TLE2 16 indoor units can be switched on or off individually or simultaneously within a SMMSi/S-HRMi system</p>	1.050,-
	<p>Smart Manager with data analysis and web interface: BMS-SM1280ETLE Central remote control for up to 128 indoor units; computer control via network, 7-day-timer and energy accounting software (for electrical bill calculation the BMS-IFWH5E energy monitoring relay interface + kWh-meter + computer with excel is necessary); connected directly to TCC-link bus of the outdoor unit, data analysis, storing the data on a storage medium, fault propagation with e-mail</p>	2.350,-
	<p>Web based controller: BMS-WB2561PWE Internet server for up to 256 indoor units Connection to TCC-link bus of the outdoor unit via one or several TCS-net relay interface BMS-IFLSV4E</p>	5.400,-
	<p>Web based controller: BMS-WB01GTE Internet server for up to 2048 indoor units; Connection of up to 8 BMS-WB2561PWE web based controller via Ethernet</p>	5.400,-
	<p>Touch Screen Controller with energy billing: BMS-CT5120E 12,1 TFT multi-touch screen with a resolution of 1024 x 768 pixels; incl. energy billing option means «Energy Monitoring Interface»</p> <ul style="list-style-type: none"> ■ Individual control of up to 512 indoor units ■ Record of unit status, operating mode, room temperature, power demand ■ On / Off ■ Operation mode setting ■ Daily, weekly and monthly time switch programmable ■ Temperature setting and Manual Mode limitations ■ Individual and group control ■ Energy saving options of indoor units and the outdoor unit ■ Failure diagnostics system 	6.900,-

BUILDING MANAGEMENT SYSTEME

Type / Description	Single price excl. VAT (EUR)
TCS net relay interface: BMS-IFLSV4E Interface between touch screen controller or BACnet server and TCC-link. For max. 64 indoor units or max. 16 systems	960,-
BACnet server: BMS-LSV9E Adapter for connection of TCC-link network to an BACnet-system	5.100,-
BACnet server software: BMS-STBN10E Software for BMS-LSV9E	2.600,-
LonWorks Gateway for TCC-link: TCB-IFLN642TLE for controlling of up to 64 indoor units	1.600,-
Software „Interactive Intelligence II“: RBC-WP1-PE for controlling of SMMSi/SHRMI via computer (optional LonWorks interface TCB-IFLN642TLE necessary)	6.200,-
ModBus Interface: TCB-IFMB641TLE Adapter for connecting TCC-link network to a modbus system for controlling of up to 64 indoor units	2.000,-
Analogue interface: TCB-IFCB640TLE for controlling of up to 64 indoor units	2.100,-
General purpose Interface: TCB-IFCG1TLE	2.100,-
Digital input/output relay interface: BMS-IFDD03E 8 inputs / 4 outputs	1.200,-
Energy monitoring relay interface: BMS-IFWH5E Energy billing module with daily and monthly billing option; kWh-meter must be installed on site (max. 10 pulse per kWh) / for max. 8 kWh-meter	1.200,-
IntesisBox: TO-RC-KNX-1i Interface to integrate one a/c unit via A/B-Bus	380,-
IntesisBox: TO-AC-KNX-16 Interface to integrate up to 16 a/c units via KNX protocol (TCC-Link)	2.580,-
IntesisBox: TO-AC-KNX-64 Interface to integrate up to 64 a/c units via KNX protocol (TCC-Link)	4.950,-

Control options

Type / Description	Single price excl. VAT (EUR)
for indoor units	
Analogue Interface: RBC-FDP3-PE Interface to control the temperature, fan speed, mode, louver, on/off and lock of indoor unit through 0 – 10 V signal	500,-
Fault, indication and remote on/off module: TCB-IFCB-4E2 Floating contacts for operation and fault indication; Connections for external on/off	325,-
Window switch & on/off: TCB-IFCB5-PE Potential-free contact for on/off and window switch control	50,-
TCB-PX100-PE Chassis for TCB-IFCB5-PE	35,-
Remote temperature sensor: TCB-TC21LE2 Chassis with external room temperature sensor	95,-
TCC-link adapter: TCB-PCNT30TLE2 Adapter of DI & S-DI TCC-link to VRF TCC-link	115,-
TCB-PX30MUE Terminal box for TCC-link adapter TCB-PCNT30TLE2	95,-
DI, S-DI redundancy module: TC-USB-EVO-1 Redundancy switch box	1.350,-
33NT400072M TOSHIBA thermostat, temperature monitoring + activation 2nd system	auf Anfrage
for outdoor units	
Application control kit for DI outdoor units series 4 + SDI outdoor units sizes 5: TCB-PCOS1E2 Inputs for reduction of capacity and sound, output for compressor „on“	240,-
CDU control for Super DI outdoor units series 4: TCB-KBOS1E (Sizes 8, 11, 14) and DI Big, inputs for reduction of capacity and sound, output for compressor „on“	40,-
Fault indication module*: TCB-PCIN4E Operating and fault message output	125,-
Antifreeze; remote on/off module*: TCB-PCM04E Inputs for ext. on/off, priority cooling/heating, sound reduction and outdoor unit fan „on“	90,-
Module for energy limitation/load control*: TCB-PCDM4E Inputs for ext. on/off and reduction of capacity (6 stages)	115,-
TCB-IFGSM1E: GSM Control Interface	670,-
RBC-RD3-PE Leak Detektor	660,-

* for S-MMS, MINi, SMMSi and S-HRMi outdoor units

Special accessories RAV / VRF

Type	Description	Packaging unit	Price per piece excl. VAT (EUR)
Connector with cable: Connection cable (50 cm) plus connector for the control of equipment on site			
TCB-KBCN32VEE	Connector with cable for CN32	1 pcs.	4,-
CN60	Connector with cable for CN60	1 pcs.	8,-
TCB-KBCN61HAE	Connector with cable for CN61	1 pcs.	8,-
TCB-KBCN700AE	Connector with cable for CN70	1 pcs.	4,-
TCB-KBCN73DEE	Connector with cable for CN73	1 pcs.	4,-
TCB-KBCN80EXE	Connector with cable for CN80	1 pcs.	4,-

TOSHIBA SERVICE PROGRAMS

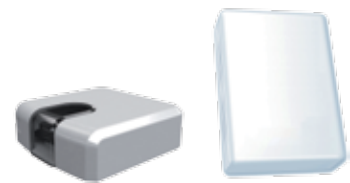
- Computer software for the service technique
- Display and record of data of the units: unit on/off, cooling or heating operation, PMV open level, temperature data, pressure level, compressor on/off
- Check code consisting of: adapter box, cable for the unit, cable for the computer and CD-ROM

Type	Additional information	Price per unit excl. VAT (EUR)
4316V413	Dyna Doctor Hardware	1.500,-
43183027	Software S-MMS & S-HRM	
43183028	Software Mini S-MMS	
43183030	Software DI, S-DI & IMS	
43183032	Software SMMSi	
37589712	Software Estia	

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www.air-cond.com

- Partner Login
- Downloads
- Software
- Dyna Doctor



- **IntesisHome** is the most advanced solution to manage remotely your climate system using a simple **smartphone** (for IOS and Android), **tablet or PC** via Internet.
- An **external module** which is either infrared-controlled or wired provides the connection between the air conditioning unit and the server.
- The control is carried out via smartphone (for IOS and Android), tablet or computer using a website, which is working in the background and visible only through the app (for IOS and Android).

Model: IS-IR-WIFI-1

Model name	Single price excl. 20 % VAT (EUR)
IS-IR-WIFI-1 Module for external control of RAS systems (RAV and VRF hi-wall, VRF console) via smartphone (for IOS and Android), tablet and computer	290,-

Model: TO-RC-WIFI-1

Model name	Single price excl. 20 % VAT (EUR)
TO-RC-WIFI-1 Module for external control of RAV systems via smartphone (for IOS and Android), tablet and computer	390,-



ESTIA Series 4

- Extremely high levels of efficiency - COP up to 4.88
- Piping length up to 30 m
- A-class water pump (EEL ≤ 0.23)
- Leaving temperature: Heating: 20 - 55 °C, cooling: 7 - 30 °C
- 2 temperature zones possible
- integrated remote control



Outdoor unit

Type	Capacity (kW)		Power consumption (kW)		Efficiency		Nominal water flow rate (l/min)	Dimensions (H × W × D) (mm)	Price (EUR) excl. VAT
	☀	❄	☀	❄	☀	❄			
1-phase									
HWS-804H-E	8,00	6,00	1,79	1,94	4,46	3,10	22,90	890 × 900 × 320	2.520,-
HWS-1104H-E	11,20	10,00	2,30	3,26	4,88	3,07	32,10	1340 × 900 × 320	3.000,-
HWS-1404H-E	14,00	11,00	3,11	3,81	4,50	2,89	40,10	1340 × 900 × 320	3.300,-
3-phase									
HWS-1104H8-E	11,20	10,00	2,34	3,26	4,80	3,07	32,10	1340 × 900 × 320	3.220,-
HWS-1404H8-E	14,00	11,00	3,16	3,81	4,44	2,89	40,10	1340 × 900 × 320	3.540,-
HWS-1604H8-E	16,00	13,00	3,72	4,80	4,30	2,71	45,80	1340 × 900 × 320	4.050,-

☀ Heating ❄ Cooling

Hydro Box

Type	Compatibility with outdoor units	Electric backup heater	Minimum water flow rate (l/min)	Dimensions (H × W × D) (mm)	Price (EUR) excl. VAT
HWS-804XWHM3-E	HWS-804H-E	230 V; 3 kW	13,0	925 × 525 × 355	3.600,-
HWS-804XWHT6-E		2 × 230 V; 6 kW	13,0	925 × 525 × 355	3.650,-
HWS-804XWHT9-E		3 × 230 V; 9 kW	13,0	925 × 525 × 355	3.750,-
HWS-1404XWHM3-E	HWS-1104, 1404H-E HWS-1104, 1404, 1604H8-E	230 V; 3 kW	17,5	925 × 525 × 355	4.350,-
HWS-1404XWHT6-E		2 × 230 V; 6 kW	17,5	925 × 525 × 355	4.450,-
HWS-1404XWHT9-E		3 × 230 V; 9 kW	17,5	925 × 525 × 355	4.550,-

ESTIA HI POWER

PERFECT FOR RENOVATION WITHOUT CHANGING RADIATORS!

- Leaving water temperature up to 60 °C
- Operation range down to -25 °C
- Full rated capacity down to -15 °C
- High flexibility
- Top efficiency & COP
- 2-zone temperature control



Outdoor unit

Type	Capacity (kW)		Power consumption (kW)		Efficiency		Nominal water flow rate (l/min)	Dimensions (H x W x D) (mm)	Price (EUR) excl. VAT
	☀	❄	☀	❄	☀	❄			
1-phase									
HWS-P804HR-E	8,00	6,00	1,68	1,64	4,76	3,66	22,90	1340 x 900 x 320	3.400,-
HWS-P1104HR-E	11,20	10,00	2,30	3,33	4,88	3,00	32,10	1340 x 900 x 320	3.700,-

☀ Heating ❄ Cooling

Hydro Box

Type	Compatibility with outdoor units	Electric backup heater	Minimal water flow rate (l/min)	Dimensions (H x W x D) (mm)	Price (EUR) excl. VAT
HWS-P804XWHM3-E		230 V; 3 kW	13,0	925 x 525 x 355	3.600,-
HWS-P804XWHT6-E	HWS-P804HR-E	2 x 230 V; 6 kW	13,0	925 x 525 x 355	3.650,-
HWS-P804XWHT9-E		3 x 230 V; 9 kW	13,0	925 x 525 x 355	3.750,-
HWS-P1104XWHM3-E		230 V; 3 kW	17,5	925 x 525 x 355	4.350,-
HWS-P1104XWHT6-E	HWS-P1104HR-E	2 x 230 V; 6 kW	17,5	925 x 525 x 355	4.450,-
HWS-P1104XWHT9-E		3 x 230 V; 9 kW	17,5	925 x 525 x 355	4.550,-



ESTIA Hot water tank



- Stainless steel – isolated
- Electric backup heater with 2,75 kW (for legionella control and water heating > 43 °C)
- Temperature sensor included
- Safety thermo element

Type	Content liter	Max. water temperature	Electric heater (kW)	Current	Height (mm)	Diameter (mm)	Material	Price (EUR) excl. VAT
HWS-1501CSHM3-E	150	75	2,75		1.090	550		1.190,-
HWS-2101CSHM3-E	210	75	2,75	1-phase 230 V	1.474	550	Stainless steel	1.400,-
HWS-3001CSHM3-E	300	75	2,75		2.040	550		1.650,-

ESTIA Accessories



Type	Description	Price (EUR) excl. VAT
TCB-PCMO3E	<p>Interface for external inputs (voltage free contacts):</p> <ul style="list-style-type: none"> ■ Input for heating requirement (room thermostat) ■ Input for cooling requirement (room thermostat) <p>Alternatively, the two inputs can be used as follows:</p> <ul style="list-style-type: none"> ■ Input for external emergency stop switch-off ■ Input for hot water demand to the tank 	100,-
TCB-PCIN3E	<p>Interface for external inputs (voltage free contacts):</p> <ul style="list-style-type: none"> ■ Output for activating external heating system ■ Output for alarm signals <p>Alternatively, the two outputs can be used as follows:</p> <ul style="list-style-type: none"> ■ Defrost signal output ■ Operation signal output 	135,-
Sensor 95612037	Temperature sensor for on-site hot water tank	50,-
HWS-AMS11E	Remote control	170,-

Measuring for TOSHIBA air-to-water heat pump:

Heating:	Outdoor temperature 7 °C DB, 6 °C WB, 35 °C Leaving water temperature, $\Delta T = 5 \text{ °C}$
Cooling:	Outdoor temperature 35 °C DB, 18 °C Leaving water temperature, $\Delta T = 5 \text{ °C}$
Refrigerant pipes:	7,5 m length and no height difference between indoor and outdoor unit
Sound pressure level:	measured in 1 m distance to outdoor unit according to „JIS“ standard



ADDITIONAL INFORMATION

Type	Capacity (kW)	Length of pipes (m)			Dimensions of pipes (inches)		Refrigerant weight (kg)	Additional charge (g/m)
	 / 	min./max.	Height difference	pre-charged	Gas side	Liquid side		
RAS Inverter								
RAS-107SAV-E6	2,50 / 3,20	2/15	8	15	3/8	1/4	0,63	-
RAS-137SAV-E6	3,15 / 3,20	2/15	8	15	3/8	1/4	0,63	-
RAS-167SAV-E5	4,40 / 5,20	2/20	10	15	1/2	1/4	1,05	20
RAS-10N3AV2-E(1)	2,50 / 3,20	2/20	10	15	3/8	1/4	0,80	20
RAS-13N3AV2-E(1)	3,50 / 4,20	2/20	10	15	3/8	1/4	0,80	20
RAS-16N3AV2-E	4,50 / 5,50	2/20	10	15	1/2	1/4	1,10	20
RAS-18N3AV2-E	5,00 / 5,80	2/20	10	15	1/2	1/4	1,40	20
RAS-22N3AV2-E	6,00 / 7,00	2/20	10	15	1/2	1/4	1,40	20
RAS-10G2AVP-E	2,50 / 3,20	2/25	10	15	3/8	1/4		
RAS-13G2AVP-E	3,50 / 4,00	2/25	10	15	3/8	1/4		
RAS-16G2AVP-E	4,50 / 5,50	2/25	10	15	1/2	1/4		
RAS Multi Inverter								
RAS-M14GAV-E	4,00 / 4,40	2/30	10	20	3/8	1/4	0,90	20
RAS-M18UAV-E	5,20 / 5,60	2/30	10	20	3/8	1/4	1,20	20
RAS-3M26UAV-E	7,50 / 9,00	3/70	15	40	3/8 * - 1/2 **	1/4	2,40	20
RAS-4M27UAV-E	8,00 / 9,00	3/70	15	40	3/8 * - 1/2 **	1/4	2,40	20
RAS-5M34UAV-E1	10,00 / 12,00	3/80	15	40	3/8 * - 1/2 **	1/4	2,99	20
RAS-3M26S3AV-E	7,50 / 9,00	3/70	15	40	3/8 * - 1/2 **	1/4	2,40	20
RAS-4M27S3AV-E	8,00 / 9,00	3/70	15	40	3/8 * - 1/2 **	1/4	2,40	20
RAS-5M34S3AV-E	10,00 / 12,00	3/80	15	40	3/8 * - 1/2 **	1/4	2,99	20
Digital Inverter								
RAV-SM304ATP-E	2,50 / 3,40	2/20	10	15	3/8	1/4	0,80	20
RAV-SM404ATP-E	3,60 / 4,00	2/20	10	15	1/2	1/4	1,40	20
RAV-SM564ATP-E	5,00 / 5,30	5/30	30	20	1/2	1/4	1,10	40
RAV-SM804ATP-E	6,70 / 7,70	5/30	30	20	5/8	3/8	1,70	40
RAV-SM1104ATP-E	10,00 / 11,20	5/50	30	30	5/8	3/8	2,80	40
RAV-SM1404ATP-E	12,10 / 12,80	5/50	30	30	5/8	3/8	2,80	40
RAV-SM1603AT-E	14,00 / 16,00	5/50	30	30	5/8	3/8	3,10	40
DI BIG								
RAV-SM2244AT8-E	20,00 / 22,40	7,5/70	30	30	1 1/8	1/2	5,90	40
RAV-SM2804AT8-E	23,00 / 27,00	7,5/70	30	30	1 1/8	1/2	5,90	40
S-DI								
RAV-SP564ATP-E	5,00 / 5,60	5/50	30	20	1/2	1/4	1,40	40
RAV-SP804ATP-E	7,10 / 8,00	5/50	30	30	5/8	3/8	2,10	40
RAV-SP1104AT-E	10,00 / 11,20	5/75	30	30	5/8	3/8	3,10	40
RAV-SP1404AT-E	12,50 / 14,00	5/75	30	30	5/8	3/8	3,10	40
S-DI 3-phase								
RAV-SP1104AT8-E	10,00 / 11,20	3/75	30	30	5/8	3/8	3,10	40
RAV-SP1404AT8-E	12,50 / 14,00	3/75	30	30	5/8	3/8	3,10	40
RAV-SP1604AT8-E	14,00 / 16,00	3/75	30	30	5/8	3/8	3,10	40



 Cooling

 Heating

* with connection of RAS-M / B10 or RAS-M / B13 indoor units type

** with connection of RAS-M / B16 or B18 RAS / B22 indoor unit type

ADDITIONAL INFORMATION

Type	Capacity (kW)	Power supply		Electronical wire indoor / outdoor (mm ²)	Remote control IR / (mm ²)
	 / 	Power supply	Fuse (tr.) (V / A)		
RAS Inverter					
RAS-107SAV-E6	2,50 / 3,20	Outdoor unit	220-240 / 10	4 × 1,5	IR
RAS-137SAV-E6	3,15 / 3,20	Outdoor unit	220-240 / 10	4 × 1,5	IR
RAS-167SAV-E5	4,40 / 5,20	Outdoor unit	220-240 / 16	4 × 1,5	IR
RAS-10N3AV2-E(1)	2,50 / 3,20	Outdoor unit	220-240 / 10	4 × 1,5	IR
RAS-13N3AV2-E(1)	3,50 / 4,20	Outdoor unit	220-240 / 10	4 × 1,5	IR
RAS-16N3AV2-E	4,50 / 5,50	Outdoor unit	220-240 / 16	4 × 1,5	IR
RAS-18N3AV2-E	5,00 / 5,80	Outdoor unit	220-240 / 16	4 × 1,5	IR
RAS-22N3AV2-E	6,00 / 7,00	Outdoor unit	220-240 / 16	4 × 1,5	IR
RAS-10G2AVP-E	2,50 / 3,20	Outdoor or indoor unit	220-240 / 10	4 × 1,5	IR
RAS-13G2AVP-E	3,50 / 4,00	Outdoor or indoor unit	220-240 / 10	4 × 1,5	IR
RAS-16G2AVP-E	4,50 / 5,50	Outdoor or indoor unit	220-240 / 16	4 × 1,5	IR
RAS Multi Inverter					
RAS-M14GAV-E	4,00 / 4,40	Outdoor unit	220-240 / 10	each 4 × 1,5	IR
RAS-M18UAV-E	5,20 / 5,60	Outdoor unit	220-240 / 10	each 4 × 1,5	IR
RAS-3M26UAV-E	7,50 / 9,00	Outdoor unit	220-240 / 16	each 4 × 1,5	IR
RAS-4M27UAV-E	8,00 / 9,00	Outdoor unit	220-240 / 20	each 4 × 1,5	IR
RAS-5M34UAV-E1	10,00 / 12,00	Outdoor unit	220-240 / 20	each 4 × 1,5	IR
RAS-3M26S3AV-E	7,50 / 9,00	Outdoor unit	220-240 / 16	each 4 × 1,5	IR
RAS-4M27S3AV-E	8,00 / 9,00	Outdoor unit	220-240 / 20	each 4 × 1,5	IR
RAS-5M34S3AV-E	10,00 / 12,00	Outdoor unit	220-240 / 20	each 4 × 1,5	IR
Digital Inverter					
RAV-SM304ATP-E	2,50 / 3,40	Outdoor unit	220-240 / 16	4 × 1,5	2 x 0,75 / IR
RAV-SM404ATP-E	3,60 / 4,00	Outdoor unit	220-240 / 16	4 × 1,5	2 x 0,75 / IR
RAV-SM564ATP-E	5,00 / 5,30	Outdoor unit	220-240 / 13	4 × 1,5	2 x 0,75 / IR
RAV-SM804ATP-E	6,70 / 7,70	Outdoor unit	220-240 / 16	4 × 1,5	2 x 0,75 / IR
RAV-SM1104ATP-E	10,00 / 11,20	Outdoor unit	220-240 / 20	4 × 1,5	2 x 0,75 / IR
RAV-SM1404ATP-E	12,10 / 12,80	Outdoor unit	220-240 / 25	4 × 1,5	2 x 0,75 / IR
RAV-SM1603AT-E	14,00 / 16,00	Outdoor unit	220-240 / 32	4 × 1,5	2 x 0,75 / IR
DI BIG					
RAV-SM2244AT8-E	20,00 / 22,40	Outdoor unit	380-415 / 3 x 20	4 × 1,5	2 x 0,75 / IR
RAV-SM2804AT8-E	23,00 / 27,00	Outdoor unit	380-415 / 3 x 25	4 × 1,5	2 x 0,75 / IR
S-DI					
RAV-SP564ATP-E	5,00 / 5,60	Outdoor unit	220-240 / 13	4 × 1,5	2 x 0,75 / IR
RAV-SP804ATP-E	7,10 / 8,00	Outdoor unit	220-240 / 16	4 × 1,5	2 x 0,75 / IR
RAV-SP1104AT-E	10,00 / 11,20	Outdoor unit	220-240 / 20	4 × 1,5	2 x 0,75 / IR
RAV-SP1404AT-E	12,50 / 14,00	Outdoor unit	220-240 / 20	4 × 1,5	2 x 0,75 / IR
S-DI 3-phase					
RAV-SP1104AT8-E	10,00 / 11,20	Outdoor unit	380-415 / 3 x 20	4 × 1,5	2 x 0,75 / IR
RAV-SP1404AT8-E	12,50 / 14,00	Outdoor unit	380-415 / 3 x 20	4 × 1,5	2 x 0,75 / IR
RAV-SP1604AT8-E	14,00 / 16,00	Outdoor unit	380-415 / 3 x 20	4 × 1,5	2 x 0,75 / IR

 Cooling

 Heating



Information for the AIR CONDITIONING AT LOW OUTSIDE TEMPERATURES

Models	Official outdoor temperature range limits (acc. to TOSHIBA specification)	Low ambient operation	Automatic restart function after power failure
Digital Inverter & Super Digital Inverter & DI BIG			
RAV-SM304ATP-E RAV-SM404ATP-E	<ul style="list-style-type: none"> Outdoor temperature range Cooling mode -15°C till +46°C Outdoor temperature range Heating mode -15°C till +24°C 	<p>Perfect for cooling operation at low outdoor temperature, as:</p> <ul style="list-style-type: none"> Low ambient kit is included Oil heater is included Cooling is also possible with an outside temperature below -15 °C and unit doesn't switch off! Take care for wind protection! For the room inside air humidification might be necessary! 	<ul style="list-style-type: none"> Included (not activated by the factory) To activate: Hi-wall, cassette, duct, ceiling: Change in the DN Code menu of the remote control the value of line 28 from «0» to «1»
RAV-SM564ATP-E RAV-SM804ATP-E RAV-SM1104ATP-E	<ul style="list-style-type: none"> Outdoor temperature range Cooling mode -15°C till +46°C Outdoor temperature range Heating mode -15°C till +15°C 		
RAV-SM1404ATP-E	<ul style="list-style-type: none"> Outdoor temperature range Cooling mode -15°C till +46°C Outdoor temperature range Heating mode -20°C till +15°C 		
RAV-SM1603AT-E	<ul style="list-style-type: none"> Outdoor temperature range Cooling mode -15°C till +43°C Outdoor temperature range Heating mode -15°C till +15°C 		
RAV-SP564ATP-E RAV-SP804ATP-E RAV-SP1104AT-E RAV-SP1404AT-E	<ul style="list-style-type: none"> Outdoor temperature range Cooling mode -15°C till +43°C Outdoor temperature range Heating mode -20°C till +15°C 		
RAV-SM2244AT8-E RAV-SM2804AT8-E	<ul style="list-style-type: none"> Outdoor temperature range Cooling mode -15°C till +46°C Outdoor temperature range Heating mode -20°C till +15°C 		
RAS Inverter Single AvAnt			
RAS-107SAV-E6 RAS-137SAV-E6 RAS-167SAV-E5	<ul style="list-style-type: none"> Outdoor temperature range Cooling mode -10°C till +46°C Outdoor temperature range Heating mode -15°C till +24°C 	<ul style="list-style-type: none"> Not suitable for cooling mode at low outside temperatures as the unit will be switched off at an outside temperature of approx. -10°C! Cooling possible until -10°C Oil heater included 	<p>Included (not activated by the factory)</p> <p>To activate:</p> <ul style="list-style-type: none"> Press the „Reset“ button at the indoor unit for 3 seconds
RAS Inverter Single Suzumi Plus or Console			
RAS-10N3AV2-E(1) RAS-13N3AV2-E(1) RAS-16N3AV2-E RAS-18N3AV2-E RAS-22N3AV2-E	<ul style="list-style-type: none"> Outdoor temperature range Cooling mode -10°C till +46°C Outdoor temperature range Heating mode -15°C till +24°C 	<ul style="list-style-type: none"> Not suitable for cooling mode at low outside temperatures as the unit will be switched off at an outside temperature of approx. -10°C! Cooling possible until -10°C Oil heater included 	<p>Included (not activated by the factory)</p> <p>To activate:</p> <ul style="list-style-type: none"> Press the „Reset“ button at the indoor unit for 3 seconds

Information for the AIR CONDITIONING AT LOW OUTSIDE TEMPERATURES

Models	Official outdoor temperature range limits (acc. to TOSHIBA specification)	Low ambient operation	Automatic restart function after power failure
RAS Single Super Daiseikai 8			
RAS-10G2AVP-E RAS-13G2AVP-E RAS-16G2AVP-E	<ul style="list-style-type: none"> ■ Outdoor temperature range Cooling mode -10°C till +46°C ■ Outdoor temperature range Heating mode -15°C till +24°C 		
RAS Inverter Multi			
RAS-M14GAV-E RAS-M18UAV-E	<ul style="list-style-type: none"> ■ Outdoor temperature range Cooling mode +5°C till +43°C ■ Outdoor temperature range Heating mode -15°C till +24°C 	Not suitable for cooling operation at low temperatures	Included (not activated by the factory) To activate: <ul style="list-style-type: none"> ■ Press the „Reset“ button at the indoor unit for 3 seconds
RAS-3M26UAV-E RAS-4M27UAV-E RAS-5M34UAV-E1	<ul style="list-style-type: none"> ■ Outdoor temperature range Cooling mode +10°C till +43°C ■ Outdoor temperature range Heating mode -15°C till +22°C 		
RAS-3M26S3AV-E RAS-4M27S3AV-E RAS-5M34S3AV-E	<ul style="list-style-type: none"> ■ Outdoor temperature range Cooling mode -10°C till +46°C ■ Outdoor temperature range Heating mode -15°C till +24°C 		

Current consumption + protection

Outdoor unit	Current consumption maximum (A)	Current consumption nominal (A)  / 	Power consumption nominal (kW)	Recommended protection (A)	Supply voltage	*Recommended cable type power supply H07RN-F*G**2	Communication-cable H07RN-F*G**2
RESIDENTIAL							
AvAnt							
RAS-107SAV-E6	8	3,67/3,95	0,800	10	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-137SAV-E6	8	5,16/4,46	1,065	10	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-167SAV-E5	10	7,13/6,91	1,530	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
Suzumi Plus + Console							
RAS-10N3AV2-E(1)	8,5	2,81/3,43	0,710	10	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-13N3AV2-E(1)	9,1	4,57/4,93	1,040	10	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-16N3AV2-E	11	6,33/6,86	1,458	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-18N3AV2-E	10	6,35/6,98	1,520	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-22N3AV2-E	13,5	9,31/9,56	2,000	16	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
Super Daiseikai 8							
RAS-10G2AVP-E	11	2,58/3,10	0,580	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-13G2AVP-E	11	4,03/3,84	0,800	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-16G2AVP-E	11	6,24/6,41	1,370	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
Multi split							
RAS-M14GAV-E	13,2	4,87/4,43	1,020	16	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-M18UAV-E	14,4	7,12/8,28	1,790	16	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-3M26UAV-E	16,5	9,57/10,53	2,200	16	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAS-4M27UAV-E	17,1	10,94/9,22	2,286	20	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
RAS-5M34UAV-E1	19,5	13,99/13,56	2,833	20	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
RAS-3M26S3AV-E	tbc	tbc	2,200	16	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
RAS-4M27S3AV-E	tbc	tbc	1,930	20	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
RAS-5M34S3AV-E	tbc	tbc	2,830	20	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
LIGHT COMMERCIAL							
Digital Inverter							
RAV-SM304ATP-E	8,5		0,59	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAV-SM404ATP-E	10,0		0,90	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAV-SM564ATP-E	12,3	7,31/6,37	1,56	13	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAV-SM804ATP-E	14,3	10,40/9,98	2,22	16	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAV-SM1104ATP-E	20,8	14,60/14,17	3,02	20	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
RAV-SM1404ATP-E	22,8	20,74/16,44	3,57	25	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
RAV-SM1603AT-E	29,7	21,48/21,20	4,49	25	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
Super Digital Inverter							
RAV-SP564ATP-E	15,0	6,82/5,61	1,47	16	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAV-SP804ATP-E	20,8	8,72/8,95	1,86	16	220-240V/1Ph+N/50Hz	3G1,5	4G1,5
RAV-SP1104AT-E	22,8	10,36/10,96	2,34	20	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
RAV-SP1104AT8-E	16,4	4,45/4,52	2,42	16	380-415V/3Ph+N/50Hz	3G1,5	4G1,5
RAV-SP1404AT-E	22,8	14,66/14,89	3,21	20	220-240V/1Ph+N/50Hz	3G2,5	4G1,5
RAV-SP1404AT8-E	16,4	6,03/5,97	3,46	16	380-415V/3Ph+N/50Hz	3G1,5	4G1,5
RAV-SP1604AT8-E	16,4	7,55/7,26	4,49	16	380-415V/3Ph+N/50Hz	3G1,5	4G1,5

Outdoor unit	Current consumption maximum (A)	Current consumption nominal (A) ❄️ / 🔥	Power consumption nominal (kW)	Recommended protection (A)	Supply voltage	*Recommended cable type power supply H07RN-F*G**2	Communication-cable H07RN-F*G**2
Digital Inverter Big							
RAV-SM2244AT8-E	18,0	10,09/9,41	6,24	20	380-415V/3Ph+N/50Hz	5G2,5	4G1,5
RAV-SM2804AT8-E	22,0	13,24/12,09	8,19	25	380-415V/3Ph+N/50Hz	5G2,5	4G1,5
ESTIA							
HWS-804H-E	19,2	8,50/7,97	1,88	20	220-240V/1Ph/50Hz	3G2,5	4G1,5
HWS-1104H-E	22,8	14,71/10,08	3,17	20	220-240V/1Ph/50Hz	3G2,5	4G1,5
HWS-1404H-E	22,8	17,19/13,74	3,72	20	220-240V/1Ph/50Hz	3G2,5	4G1,5
HWS-1104H8-E	14,6	5,08/3,73	3,17	16	380-415V/3Ph+N/50Hz	3G1,5	4G1,5
HWS-1404H8-E	14,6	5,71/5,01	3,72	16	380-415V/3Ph+N/50Hz	3G1,5	4G1,5
HWS-1604H8-E	14,6	7,51/5,94	4,71	16	380-415V/3Ph+N/50Hz	3G1,5	4G1,5
HI-Power							
HWS-P804HR-E	19,2	7,39/7,57	1,94	20	220-240V/1Ph/50Hz	3G2,5	4G1,5
HWS-P1104HR-E	22,8	14,99/10,33	3,26	25	220-240V/1Ph/50Hz	3G2,5	4G1,5
COMMERCIAL							
Mini-SMMS							BUS cable:
MCY-MAP0401HT	25	13,8/13,1	2,820	20	220-240V/1Ph/50Hz	3G2,5	**
MCY-MAP0501HT	28	16,8/16,1	3,470	20	220-240V/1Ph/50Hz	3G2,5	**
MCY-MAP0601HT	31	22,4/23,2	4,630	25	220-240V/1Ph/50Hz	3G4,0	**
SMMSi							
MMY-MAP0804HT8P-E	23,5	8,5/8,8	5,530	20	380-415V/3Ph+N/50Hz	5G2,5	**
MMY-MAP1004HT8P-E	25,5	11,4/11,8	7,500	20	380-415V/3Ph+N/50Hz	5G2,5	**
MMY-MAP1204HT8P-E	28,5	14,7/16,0	10,200	25	380-415V/3Ph+N/50Hz	5G4,0	**
MMY-MAP1404HT8P-E	33,2	17,7/17,6	11,500	25	380-415V/3Ph+N/50Hz	5G4,0	**
MMY-MAP1604HT8P-E	36,5	20,8/22,0	13,700	32	380-415V/3Ph+N/50Hz	5G6,0	**
SHRmi							
MMY-MAP0804FT8-E	24,5	8,3/9,1	5,680	20	380-415V/3Ph+N/50Hz	5G2,5	**
MMY-MAP01004FT8-E	27,1	11,4/12,0	7,500	20	380-415V/3Ph+N/50Hz	5G2,5	**
MMY-MAP01204FT8-E	31,2	13,4/14,5	9,050	25	380-415V/3Ph+N/50Hz	5G4,0	**
MMY-MAP01404FT8-E	36,4	17,8/19,9	12,700	32	380-415V/3Ph+N/50Hz	5G6,0	**

*The correct cable cross-section calculation is up the responsibility of the executive electric installation company

**2-wire flexible / shielded <500m= 0,75mm²; >500m= 1,5mm²

❄️ Cooling 🔥 Heating

Sound power / Sound pressure

Outdoor unit	Sound power: dB(A) ❄️ / 🔥	Sound pressure: dB(A) ❄️ / 🔥	Noise reduction not possible dB(A) ❄️ / 🔥
RESIDENTIAL			
AvAnt			
RAS-107SAV-E6	63/65	48/50	---
RAS-137SAV-E6	63/65	48/50	---
RAS-167SAV-E5	64/65	49/50	---
Suzumi Plus+Console			
RAS-10N3AV2-E(1)	61/62	46/47	---
RAS-13N3AV2-E(1)	63/65	48/50	---
RAS-16N3AV2-E	64/65	49/50	---
RAS-18N3AV2-E	64/65	49/50	---
RAS-22N3AV2-E	68/67	49/50	---
Super Daiseikai 8			
RAS-10G2AVP-E	61/62	46/47	---
RAS-13G2AVP-E	63/64	48/49	---
RAS-16G2AVP-E	64/65	49/50	---
Multi split			
RAS-M14GAV-E	59/61	46/48	---
RAS-M18UAV-E	64/66	49/51	---
RAS-3M26UAV-E	63/63	48/49	---
RAS-4M27UAV-E	63/63	48/49	---
RAS-5M34UAV-E1	66/69	51/54	---
RAS-3M26S3AV-E	63/64	48/49	---
RAS-4M27S3AV-E	63/64	48/49	---
RAS-5M34S3AV-E	66/68	52/55	---

Outdoor unit	Sound power: dB(A) ❄️ / 🔥	Sound pressure: dB(A) ❄️ / 🔥	Noise reduction with accessories connector dB(A) ❄️ / 🔥
LIGHT COMMERCIAL			
Digital Inverter			
			TCB-PCOS1E2
RAV-SM304ATP-E	61/62	46/47	---
RAV-SM404ATP-E	64/65	49/50	---
RAV-SM564ATP-E	63/65	46/48	41/45
RAV-SM804ATP-E	65/69	48/52	43/48
RAV-SM1104ATP-E	70/71	53/54	46/50
RAV-SM1404ATP-E	70/71	54/55	49/50
RAV-SM1603AT-E	68/70	51/53	46/48

Super Digital Inverter

			TCB-PC0S1E2
RAV-SP564ATP-E	63/64	47/48	42/43
			TCB-KB0S1E
RAV-SP804ATP-E	64/65	48/49	43/44
RAV-SP1104AT-E	66/67	49/50	44/45
RAV-SP1104AT8-E	66/67	49/50	44/45
RAV-SP1404AT-E	68/69	51/52	46/47
RAV-SP1404AT8-E	68/69	51/52	46/47
RAV-SP1604AT8-E	68/70	51/53	46/48

SDI Big

			TCB-KB0S1E
RAV-SM2244AT8-E	72/74	56/57	45/45
RAV-SM2804AT8-E	74/75	57/58	45/45

Outdoor unit	Sound power: dB(A)	Sound pressure: dB(A)	Noise reduction with accessories connector dB(A)
	❄️ / 🔥	❄️ / 🔥	❄️ / 🔥

COMMERCIAL
Mini-SMMS

			TCB-PCM04E
MCY-MAP0401HT		49/50	46/48
MCY-MAP0501HT		50/52	46/48
MCY-MAP0601HT		51/53	47/49

SMMSi

			TCB-PCM04E
MMY-MAP0804HT8P-E	77/78	55/56	50/50
MMY-MAP1004HT8P-E	78/79	57/58	50/50
MMY-MAP1204HT8P-E	82/83	59/61	50/50
MMY-MAP1404HT8P-E	82/83	60/62	53/53
MMY-MAP1604HT8P-E	83/84	61/63	53/53

SHRMi

			TCB-PCM04E
MMY-MAP0804FT8-E	77/79	55/57	50/50
MMY-MAP01004FT8-E	78/80	57/59	50/50
MMY-MAP01204FT8-E	81/83	60/62	53/53
MMY-MAP01404FT8-E	82/84	62/64	53/53




❄️ Cooling 🔥 Heating

VRF performance tables

Standard models

	Model name (MMY-)	Nominal cooling capacity	Nominal heating capacity	Design
8 HP	MAP0804HT8P-E	22,40 kW	25,00 kW	
10 HP	MAP1004HT8P-E	28,00 kW	31,50 kW	
12 HP	MAP1204HT8P-E	33,50 kW	37,50 kW	
14 HP	MAP1404HT8P-E	40,00 kW	45,00 kW	
16 HP	MAP1604HT8P-E	45,00 kW	50,00 kW	
18 HP	AP1814HT8P-E	50,40 kW	56,50 kW	
20 HP	AP2014HT8P-E	56,00 kW	63,00 kW	
22 HP	AP2214HT8P-E	61,50 kW	69,00 kW	
24 HP	AP2414HT8P-E	68,00 kW	76,50 kW	
26 HP	AP2614HT8P-E	73,00 kW	81,50 kW	
28 HP	AP2814HT8P-E	78,50 kW	88,00 kW	
30 HP	AP3014HT8P-E	85,00 kW	95,00 kW	
32 HP	AP3214HT8P-E	90,00 kW	100,00 kW	
34 HP	AP3414HT8P-E	96,00 kW	108,00 kW	
36 HP	AP3614HT8P-E	101,00 kW	113,00 kW	
38 HP	AP3814HT8P-E	106,50 kW	119,50 kW	
40 HP	AP4014HT8P-E	112,00 kW	127,00 kW	
42 HP	AP4214HT8P-E	118,00 kW	132,00 kW	
44 HP	AP4414HT8P-E	123,50 kW	138,00 kW	
46 HP	AP4614HT8P-E	130,00 kW	145,00 kW	
48 HP	AP4814HT8P-E	135,00 kW	150,00 kW	

High efficient models

	Model name (MMY-)	Nominal cooling capacity	Nominal heating capacity	Design
16 HP	AP1624HT8P-E	45,00 kW	50,00 kW	
24 HP	AP2424HT8P-E	68,00 kW	76,50 kW	
26 HP	AP2624HT8P-E	73,00 kW	81,50 kW	
28 HP	AP2824HT8P-E	78,50 kW	88,00 kW	
30 HP	AP3024HT8P-E	85,00 kW	95,00 kW	
32 HP	AP3224HT8P-E	90,00 kW	100,00 kW	
34 HP	AP3424HT8P-E	96,00 kW	108,00 kW	
36 HP	AP3624HT8P-E	101,00 kW	113,00 kW	
38 HP	AP3824HT8P-E	106,50 kW	119,50 kW	
40 HP	AP4024HT8P-E	112,00 kW	127,00 kW	
42 HP	AP4224HT8P-E	118,00 kW	132,00 kW	
44 HP	AP4424HT8P-E	123,50 kW	138,00 kW	
46 HP	AP4624HT8P-E	130,00 kW	145,00 kW	
48 HP	AP4824HT8P-E	135,00 kW	150,00 kW	

Pictures correspond to 50-Hz units. For 60 Hz units, see databook.
Values for cooling and heating.

There are also units that are cooling only.

Connector: 3-phase 50 Hz 400V (380 ~415V)

Nominal operating conditions Cooling: indoor temperature 27° C DB / 19° C WB, outdoor air temperature

35° C DB Heating: indoor air temperature 20° C DB, outdoor air temperature 7° C TK / 6° C WB

Standard piping: 5 m piping length, 2,5 m branch length in connection with branches in 0 meter height.

The voltage source can not vary more than ± 10%.




























































































The maximum total cable length is given by the sum of the lengths of the pipes in one direction (liquid or gas side)..

Quantity of indoor units

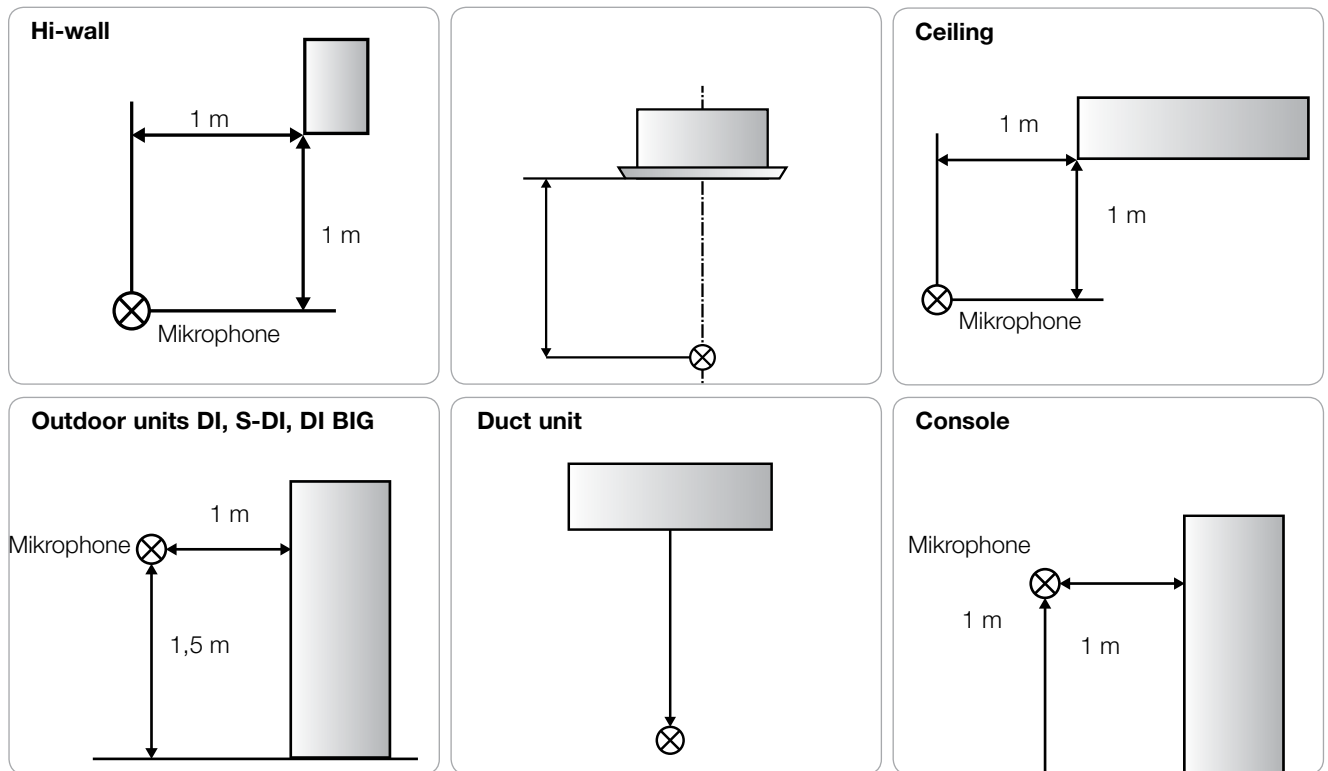
Standard models	High efficient models	Maximum number of indoor units
8 HP		13
10 HP		16
12 HP		20
14 HP		23
16 HP	16 HP=8+8	27
18 HP=10+8		30
20 HP=10+10		33
22 HP=12+10		37
24 HP=12+12	24 HP=8+8+8	40
26 HP=16+10	26 HP=10+8+8	43
28 HP=16+12	28 HP=10+10+8	47
30 HP=16+14	30 HP=10+10+10	48
32 HP=16+16	32 HP=8+8+8+8	48
34 HP=12+12+10	34 HP=10+8+8+8	48
36 HP=12+12+12	36 HP=10+10+8+8	48
38 HP=16+12+10	38 HP=10+10+10+8	48
40 HP=16+12+12	40 HP=10+10+10+10	48
42 HP=16+14+12	42 HP=12+10+10+10	48
44 HP=16+16+12	44 HP=12+12+10+10	48
46 HP=16+16+14	46 HP=12+12+12+10	48
48 HP=16+16+16	48 HP=12+12+12+12	48



Table of combinations

Standard models					High efficient models			
Module combinations	Dimensions	EER	COP	Module combinations	Dimensions	EER	COP	
16 HP 	1830 × 1210 × 780	3,28	3,52	 	1830 × 1980 × 780	4,13	4,52	
18 HP  	1830 × 1980 × 780	3,93	4,34					
20 HP  	1830 × 1980 × 780	3,78	4,20					
22 HP  	1830 × 1980 × 780	3,63	3,90					
24 HP  	1830 × 1980 × 780	3,46	3,62	  	1830 × 2970 × 780	4,10	4,45	
26 HP  	1830 × 2200 × 780	3,46	3,76	  	1830 × 2970 × 780	3,99	4,39	
28 HP  	1830 × 2200 × 780	3,38	3,57	  	1830 × 2970 × 780	3,87	4,29	
30 HP  	1830 × 2420 × 780	3,37	3,74	  	1830 × 2970 × 780	3,74	4,18	
32 HP  	1830 × 2420 × 780	3,28	3,52	   	1830 × 3960 × 780	4,13	4,52	
34 HP   	1830 × 2970 × 780	3,55	3,78	   	1830 × 3960 × 780	4,00	4,37	
36 HP   	1830 × 2970 × 780	3,49	3,66	   	1830 × 3960 × 780	3,93	4,34	
38 HP   	1830 × 3190 × 780	3,47	3,72	   	1830 × 3960 × 780	3,85	4,26	
40 HP   	1830 × 3190 × 780	3,41	3,60	   	1830 × 3960 × 780	3,78	4,17	
42 HP   	1830 × 3410 × 780	3,42	3,72	   	1830 × 3960 × 780	3,68	4,04	
44 HP   	1830 × 3410 × 780	3,34	3,55	   	1830 × 3960 × 780	3,61	3,90	
46 HP   	1830 × 3630 × 780	3,34	3,66	   	1830 × 3960 × 780	3,52	3,76	
48 HP   	1830 × 3630 × 780	3,28	3,52	   	1830 × 3960 × 780	3,48	3,68	

Measuring conditions for determining the sound pressure level



Sound pressure level: measured in about 1,5 m distance* to the indoor unit and 1 m distance to the outdoor unit these values are determined in an anechoic chamber in accordance with JIS B8616; in the installed state, these values may be higher because of external factors influence

Measuring conditions for TOSHIBA air-conditioners

Cooling: Outdoor air temperature: + 35 °C DB temperature
Indoor air temperature: + 27 °C DB temperature /+ 19 °C WB temperature
Humidity: 50-55% relative humidity

Heating: Outdoor air temperature: + 7°C DB temperature /+ 6 °C WB temperature
Indoor air temperature: + 20°C DB temperature

Refrigerant pipses: 7,5 m length - no height difference between indoor and outdoor unit

Sound pressure level: measured in about 1,5 m distance* to the indoor unit and 1 m distance to the outdoor unit these values are determined in an anechoic chamber in accordance with JIS B8616; in the installed state, these values may be higher because of external factors influence

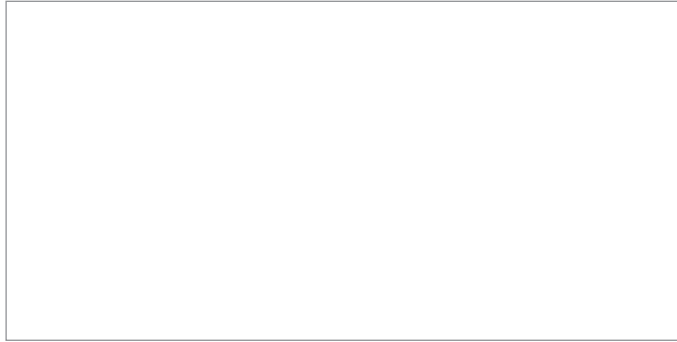
* For detailed specification please see the service manual

Glossar

Heat pump	A heat pump is a technical unit that produces useful heat from ambient temperature (about 75 percent) and compressor energy (about 25 percent).
Inverter technology	Under inverter technology is meant converting alternating current to direct current to control the compressor speed efficiently and almost without loss.
Efficiency	The efficiency is the direct comparison between the value expended electrical power and got heating / cooling capacity.
Seasonal efficiency	See definition „efficiency“ to one year.
Full load	Full load is an operation state in which a machine maximum power output can provide.
Partial load	Partial load is an operation state which is reached by speed adjustment due to the required capacity requirement of the room.
Compressor	A compressor is a component which is required for compressing gas.
PWM, PAM	The converted voltage by the „Inverter“ can push the compressor in two ways. Either the pulse width modulation (low voltage / PWM) for a very efficient operation at partial load or the pulse amplitude modulation (high voltage / PAM) for fast reaching the set temperature will be applied.
Sound power	Sound power is an acoustic variable which occurs at the actual sound source. It is expressed in dB (A).
Sound pressure	Sound pressure is the result of the acoustic power depending on the distance to the sound source. It is measured in dB (A).
Nominal capacity	The ideal unit performance at a given operating point.
Maximal capacity	The maximum unit performance at a given operating point.
Electrical protection	It interrupts an electric circuit when the electric current exceeds a predetermined current level for a predetermined time or a short-circuits or short to ground occurs on the electrical load.
P_{designc}	Calculated cooling capacity of the room to be cooled at 35 ° C ambient temperature.
P_{designh}	Calculated heating capacity of the room to be heated at - 10 ° C ambient temperature.

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AIR-COND. Klimaanlagen-Handelsgesellschaft m.b.H., Haushamer Straße 2, A-8054 Graz-Seiersberg, Austria, Tel.: +43 316 80 89, Fax: +43 316 82 63 71, E-mail: office@air-cond.com, www.air-cond.com

TOSHIBA AIRCONDITIONING

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