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WE ARE SOLUTION



Welcome to the **Premium Class**



WE ARE COOL WE ARE HEAT WE ARE COMFORT WE ARE AIR WE ARE ROTENSO

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KP/RO/PC/EN/2024.09 Product images may be slightly different from the actual devices. We make every possible effort to make sure that the images truly reflect the colours of the products but differences in printing technology may result in differences from the actual colours. Due to the continuous improvement and expansion of our offer we reserve the right to errors in descriptions and technical data.

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WE ARE SOLUTION

About **Rotenso**

Our mission is to provide state-of-the-art air conditioning, ventilation and heating solutions powered by highly efficient, energy-saving inverter technology. Thanks to years of investment in technology development, Rotenso devices are among the most innovative solutions for building temperature control and adjustment.

The Rotenso brand consistently works to strengthen its well-established position as a supplier of modern, reliable, and environmentally friendly air conditioning systems and air-to-water heat pumps. Every year, Rotenso's offer is expanded with new units that feature increasingly better technological properties and modern design.



Internal service network in Poland



24 h service response time*



Free of charge commissioning by authorized service*



5 year warranty*

* detailed conditions described in the warranty card



You are always at the heart of what we do

We use technological innovations for the sake of health and comfort offered by the systems we provide.

The ever-increasing capacity and energy efficiency of our products is a response to the growing need to rationalize the costs of energy and take care of the environment.





Reliable products

Rotenso equipment combines top components with proven solutions covered by a 5-year warranty.



Professional support

Choose the Rotenso solutions to receive full technical and service support at every stage of the investment.



Industry leader

The general distributor of the ROTENSO brand is THERMOSILESIA – a reliable partner and HVAC industry leader.

Laboratory and quality control

89	5	34	3000	6000+
laboratories	R&D centers	leading technologies	engineers	patents

3000 engineers and supervisors of:

- Quality system management
- Supplier's quality warranty
- Component quality control
- Process quality control
- Final quality check

8

Customer service improvement



The company's business model is based upon three values:







whose defined goal is to implement the two projects:

Rotenso **Business** DESIGN

The primary goal of this project is to act in responsible manner according to the principles of partnership. Immediate assistance, direct contact and reliable transportation result in satisfactory business relations.

Rotenso Eco passport DESIGN

Ecology is Rotenso's top priority. Low energy consumption equipment of the lowest possible weight and recyclable packaging. This goal is achieved by optimizing the production process.

















Assistance

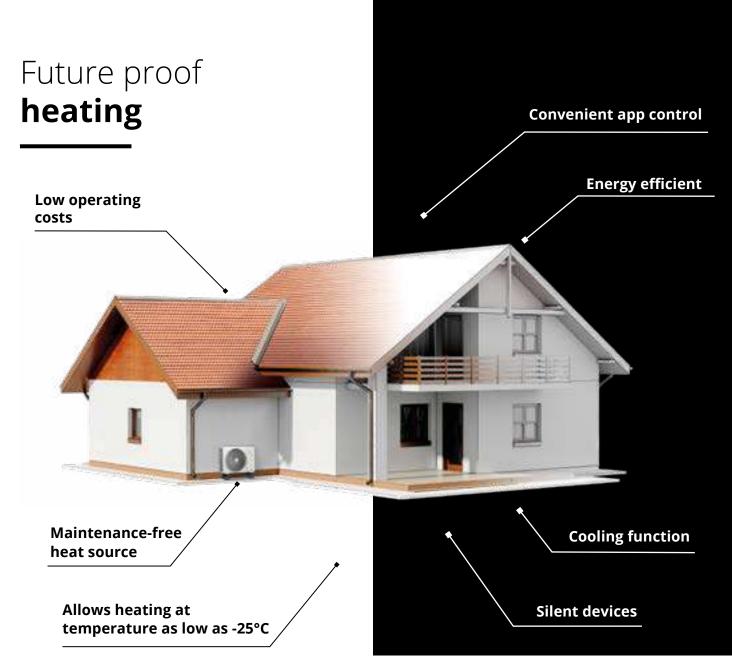
Contact

Partnership

Energy

Packaging

Recycling



Heat pumps - applications

Heat pumps are modern and efficient way of space heating and domestic hot water preparation. Principles of heat pump operation are very simple. The heat pump absorbs the heat accumulated in the air and, through its refrigeration system, transfers it back to the water that circulates in the heating system. Heating with the air source heat pump is based on the absorption of energy from the environment (**up to 75%**) and combining it with electric energy in the amount (ca. 25%) required to cover the demand.

Over the past few years, air source heat pumps have become increasingly popular, displacing traditional solutions based on fossil fuels (coal, natural gas, fuel oil). They are used in both newly built and modernized facilities.



Certyfikat **Keymark**

The Rotenso brand consistently aligns with the highest standards possible. Our products prioritize energy efficiency, safety, and user comfort, ensuring that our heat pump users are fully satisfied over their product's lifetime.

A testament to our product quality is the European KEYMARK Quality Certificate, which demonstrates Rotenso products' compliance with even the most rigorous standards.





Apply for **subsidies**

For whom?

For owners or co-owners of single-family residential buildings, or apartments separated within the single-family residential buildings with a separate land and mortgage register number.

Clean Air Programme

The Clean Air Programme is a nationwide Polish programme to subsidize the replacement of inefficient solid fuel heat sources. It supports modern, environmentally friendly solutions, including the purchase and installation of heat pumps.

For detailed information see: www.czystepowietrze.gov.pl



WE ARE FUTURE

Source of energy all year round: for space heating and cooling, and constant access to domestic hot water.

Discover features of your heat pump.





Space heating



- At outdoor temperature as low as -25°C
- Leaving water temperature up to 65°C



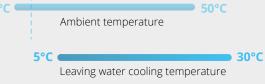




- At outdoor temperature as low as -25°C
- Leaving water temperature up to 62°C







At outdoor temperature as low as -5°C
Leaving water temperature down to 5°C











Thermal comfort offered by a heat pump

Air-to-water heat pumps are currently the most environmentally friendly heat source available. At the same time they offer space cooling feature.

A central heating system combined with underfloor heating, wall heating or traditional radiators powered by a heat pump and additionally, for example, fan coil units, provides effective heating even at extremely low temperatures in winter and air conditioning in summer.

A maintenance-free system based on an air-towater heat pump guarantees low operating costs, year-round thermal comfort and domestic hot water preparation.

Ait-to-water **heat pumps**

Rotenso offers one of the most comprehensive ranges of air-to-water heat pumps on the market. A wide range of capacities, from 4 kW to 180 kW, allows to select optimum heat pump power and thus reduce operating costs in the future.

Completely maintenance-free, year-round heat pump guarantees thermal comfort regardless of the season.



Core **features**



Maximum supply water temperature up to 65°C



Integrated Wi-Fi module for heat pump remote control





High capacity efficient heating. Energy efficiency: A+++



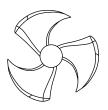
Unique fan design provides high efficiency with lower noise levels (35dB(A))



Maximum COP 5,25

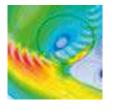


Operating range down to -25°C



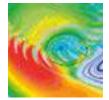


Typical blade pattern



Standard air duct

Rotenso unique blade pattern



High-efficiency air duct

Advanced SKY^R technology

Unique fan design and improved duct

Innovative design of the fan effectively reduces airflow resistance and noise levels. The optimized air duct ensures uniform air flow and 30% decrease in energy consumption



DC Inverter sine wave control

DC Inverter sine wave control enables high energy efficiency and lower noise levels. Optimization technology has also reduced energy consumption.



Full control of the Inverter



DC INVERTER rotary compressors

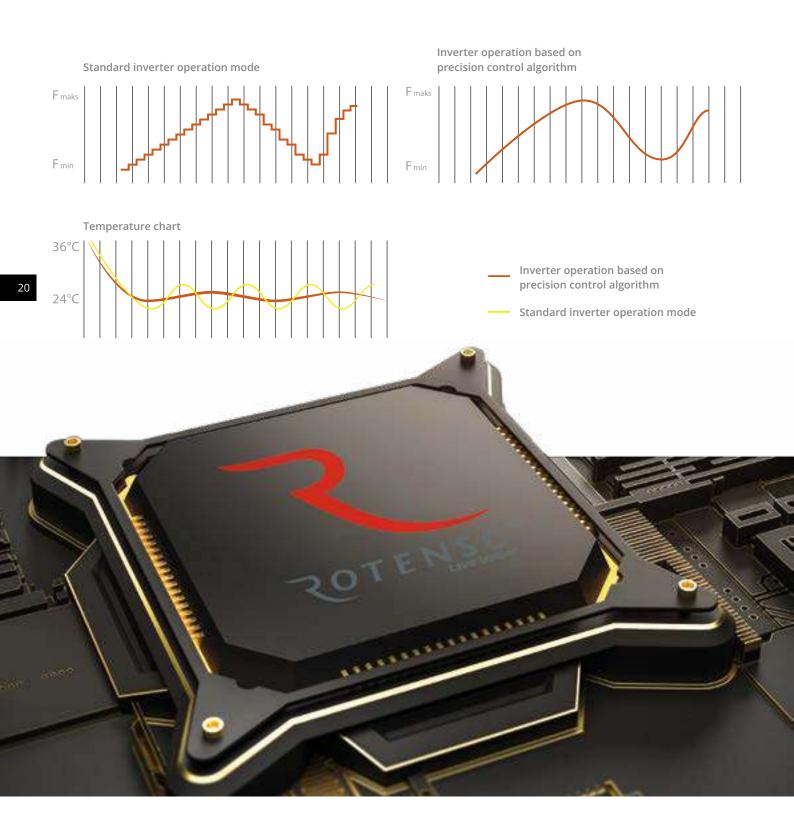
Superior compressor capacity guarantees unprecedented levels of efficiency. The unique design minimizes vibration during the operation of moving parts, thus effectively reducing noise levels.

Internally grooved pipes

Dense grooves on the inside of copper pipes increase the heat transfer area. Increasing number of grooves from 45 to 54 resulted in significant capacity improvements.

Digital Inverter SKY^R DC Inverter Control

Depending on demand, the unit management system can select one of 30 compressor frequency ranges so as to combine maximum unit efficiency with minimum energy consumption.



Energy efficient **BLDC SKY^R motors**

DC INVERTER sine wave control

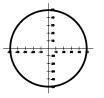
High energy efficiency and quiet operation is achieved through the DC Inverter sine wave control.

Motor with vector-shaped magnet

The motor generates 90% of heat pump total energy consumption. Internal structure of magnet motors used in Rotenso products was optimized to achieve 3x increase in magnet power and 5x increase in coercion.

It resulted in increased motor rotation speed at lower energy consumption. As a result, motor efficiency increased by 3% compared to conventional DC motors.





Vector-shaped motor

Precise motion, high efficiency

The energy-efficient BLDC motor allows indoor and outdoor units to use multiple fan speeds which lowers energy consumption and reduces the time required to reach the desired temperature. 12 speed levels of the Brushless DC motor / BLDC help to adjust its capacity to indoor conditions perfectly.

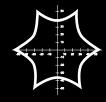
Modern components have been used to reduce noise levels while maintaining high efficiency and low energy consumption.

BLDC SKY^R motors

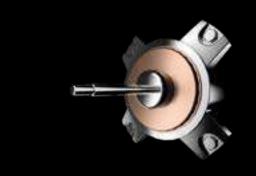
SKY^R

By optimizing the structure, fan's SKYR BLDC motor offers 10% higher efficiency with a 35% reduction in size.





Standard DC motor Less stable operation, lower efficiency



Twin rotary compressors **BLDC Inverter**

Superior compressor capacity guarantees unprecedented level of efficiency. The unique design minimizes vibration during the operation of moving parts, thus effectively reducing noise levels. This state-of-the-art solution ensures many years of energy-efficient and trouble-free operation.

Modern design of refrigerant circuit uses improved radiative cooling technology to cool the PHE / plate heat exchanger. This solution significantly increases capacity of the outdoor unit and makes its operation more stable at higher ambient temperatures.



Benefits

- Highly efficient BLDC motor
- Better balance, lower vibration and consequently less noise
- Superior stability of moving parts



High heating capacity at -15°C

The heat pump ensures stable operation without engaging supplemental electric heater and performs well to keep warm even at ambient temperature as low as -15°C.

Provides heating at down to -25°C

Perfect solutions for the harshest frosts. The Rotenso heat pump provides high heating capacity at ambient temperatures down to -25°C.

Copper pipes

Dense grooves on the inside of copper pipes increase the heat transfer area. Increasing number of grooves from 45 to 54 resulted in significant capacity improvements.



Cold proof

The compressor heater prepares the compressor to operate in heating mode in trouble-free and efficient manner exactly when you need it.



Ice forming eliminated

Integrated drip tray heater quickly melts and removes ice from the outdoor unit to ensure its stable operation and superior heating capacity.



R32 - refrigerant environmentally friendly

- · Higher heat transfer coefficient and better capacity.
- The system requires less refrigerant.
- · Lower purchase and operating costs, better availability.
- · Lower GWP (global warming potential).
- · Lower carbon dioxide emission.

ERP directive

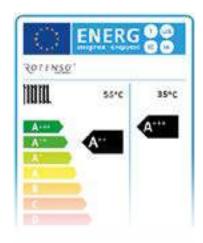
Seasonal space heating, energy efficiency.



• At supply temperature of **35°C**



• At supply temperature of **55°C**









Silent **mode**



As quiet as hum of the forest

Two-step Silent mode provides greater comfort. Level 2 of the Silent mode provides minimum sound power of 35 dB(A).



Twin rotary DC compressor



Unique fan design



Triple noise reduction

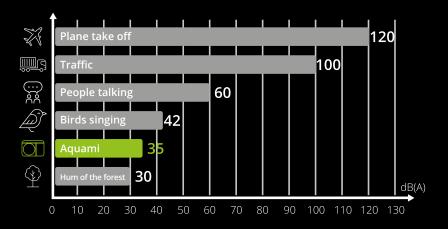


Optimized piping design

The unit generates only 35dB(A) of sound power as measured 3 meters away.



Aquami Monoblock AQM60X1





SMART control **systems**

Use the application to:

- Set up schedule and timer,
- Activate second temperature control zone,
- Monitor system status,

26

- Check heat pump status and operation mode,
- Set temperature and operation mode,
- Easily activate the Silent mode or Vacation mode.

Check heat pump status and operation mode

You can quickly view the heat pump current status and operation mode, e.g. on/off, heating/cooling, electric heater on, and in the case of a hybrid system (pump + additional heat source) you can check whether such heat source is on.

Download the right app for specific series:



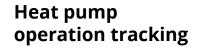






Comfort Home

TUYA SMART



Monitor important parameters, including compliance with the selected heating curve and temperature of indoor air, as well as temperature of water in the system and hot water vessel.





Control the pump remotely



Discover money saving tips



Track energy consumption

Customized **schedule**

Enjoy thermal comfort returning home where temperature exactly matches your preferences. Set up economic operation mode when you are away from home or on vacation.

With customized scheduling, the system will automatically respond to your needs providing you with comfort and savings.

Eco mode

Following the preset heating curves the heat pump will reduce its output to minimize rated input and make its operation as economic as possible.

Two control zones

This functionality helps to easily set up temperature independently for two zones, for example, common spaces on the ground floor and bedrooms upstairs. Independent management and control of two zones will be helpful for combinations of underfloor heating and radiators.

HOME

Smart Home

Home Vacation mode

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This useful temporary mode allows you to make changes to your programmed fixed schedules for specific period of time to cover any unforeseen modifications in your plans.

Vacation mode

Set the appropriate operating parameters to keep the building in a great shape and save money while you are away from home.

Heat **by nature**

By choosing renewable energy sources you are taking care of the environment, your health and your immediate surroundings. Energy from the air used by air-to-water heat pumps backed by the energy from the sun is your contribution to inhibiting climate change and saving money every day.

Smart Grid **functionality**

Heat pump controller is designed to work with the "Smart Grid".

With this feature, the pump automatically turns on to store surplus energy from the photovoltaic (PV) system to make the most of the cheaper electricity tariff.

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Domestic hot water (DHW) mode in on and water tank temperature is set to 70°C.

Normal operation

The Rotenso unit operates for a certain period of time and then shuts down.



Solar collectors

Solar collectors convert solar energy into heat, which can be used, for example, to heat domestic hot water off season.

Photovoltaic panels

Photovoltaic panels convert the sun rays into electricity, and thus supply the heat pump with energy, so you don't have to worry about the cost of heating your home and water.



Heat pump combined with fan coil unit

Add fan coil units to your heat pump based system to create an effective air conditioning system in your building without the cost of purchase, installation and maintenance of a separate system.

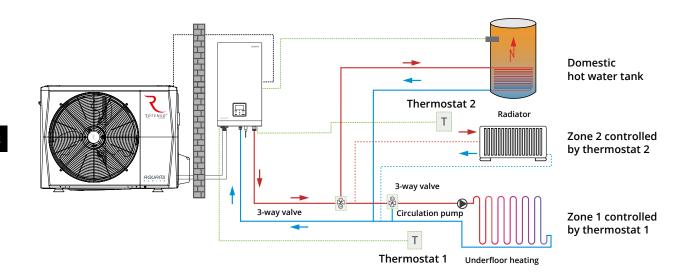
Heating in winter, cooling in summer

Eco-friendly, energy-efficient and maintenancefree heat pumps ensure thermal comfort in your building all year round, whether it means heating in the winter or air-conditioning in the summer.

Zone management

Two heating circuits provide more accurate temperature control of the low temperature zone.

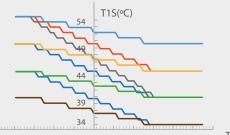
A DC water pump provides precision control of water flow, while adjustment by a three-way solenoid valve ensures stable temperature.



Climate curve **functionality**

The control system allows automatic or manual adjustment of the heating curve depending on climatic conditions.

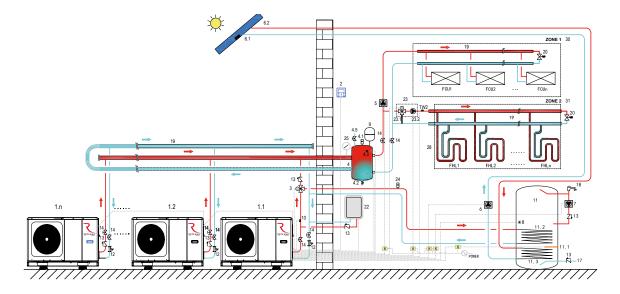
Heating mode



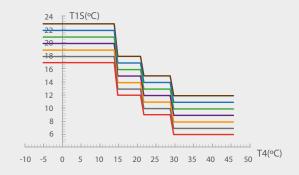
-30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 T4(°C)

Cascade unit arrangement

Cascade system design is a perfect solution if efficiency of the system must be increased due to changes in the heating/cooling demand of the building. Up to 6 units in a group can be controlled with one controller.



Cooling mode





Quick software update with a flash drive makes it easy to copy set parameters between heat pump controllers.

Heat pump characteristics

		AQUAMI	WINDMI	HEATMI	AIRMI
	Twin rotary inverter compressor	•	•	•	•
	Supplementary integrated electric heater (1)	•	•	•	•
	Year-round operation package (drip tray heater, crankcase heater)	•	•	•	•
	Outdoor unit drip tray heater	•	•	•	•
ndard uipment	Compressor crankcase heater	•	•	•	•
	Diaphragm vessel	•	•	•	•
	DHW temperature sensor	•	•	•	•
	Y mesh filter	•	•	•	•
	Indoor unit drip tray	•		•	•
	Keymark certificate	• (10)	•	•	• (9)
	CE certificate	•	•	•	•
	Energy efficiency class at 35°C ⁽²⁾	A+++	A+++	A+++	A+++
	Energy efficiency class at 55°C ⁽³⁾	A++	A++	A++	A++
lity	Eligible for the Clean Air Polish regional subsidy programmes	•	•	•	٠
	Eligible for the My Heat Polish regional subsidy programmes	•	•	•	•
	5-year warranty	•	•	•	•
	Maximum length of the cooling system (4)	30 m / 80 m	-	30 m	15 m
	SLIM housing – 270 mm ⁽⁵⁾	•		•	•
	Silent mode	35 dB(A)	- 3 dB(A)	35 dB(A)	- 6 dB(A)
	Silent function	•	•	•	•
	Wired controller	•	•	•	•
	Colour controller interface			•*	
	Wi-Fi module	•	•	•	•
	LCD display	•	•	•	•
	Configurable daily schedules	•	•	•	•
	Number of daily settings (6)	6	1	6	6
	Configurable weekly schedules	•	•	•	•
	Out-of-home Vacation mode	•	•	•	•
	Home Vacation mode	•	•	•	•
	Menu in English	•		•	•
troller	Screen lock	•	•	•	•
	Parental lock	•	•	•	
	Audible alarm	•	•	•	•
	Integrated temperature sensor (7)	•	•	•	•
	Adjustable water temperature	•	•	•	•
	Adjustable air temperature	•	•	•	•
	2 heating control zones	•	-	•	•
	Floor drying function	•		•	
	Floor protection function	•		•	
	Power limitation function	•		•	
	Number of power limitation function configurations to choose from	8		8	
	Climate curve	•	•	•	•
	Number of possible curves	16 + 16 + 1	11 + 2 + 2	8	16 + 16 + 2
	Dedicated application	•	•	•	•
	Application	Comfort Home / Smart Home *	Tuya	• Tuya	Tuya
			Tuya		
lication	2 heating control zones	•		•	•
lication	DHW priority mode	•	•	•	•
	Energy consumption tracking	•		•	
	Configurable daily schedules	•	•	•	•

		AQUAMI	WINDMI	HEATMI	AIRMI
DUNK	Fast DHW heating function	•	•	•	•
	DHW circulation pump operation schedule	•		•	
DHW	Number of circulation pump settings per day	12		12	
	Disinfection	•	•	•	•

Heat pump features

		Feature	AQUAMI	WINDMI	HEATMI	AIRMI
	Ð	Fast DHW heating function	•	•	•	•
	2	DHW circulation pump operation schedule	•		•	
	V	Number of circulation pump settings per day	12		12	
	3:	Disinfection	•	•	•	•
	اري. ماري	Efficient heating	•	•	•	•
	Ÿ	Integrated USB port for updates	•			
		Energy meter	•			
	88	Dry contact		٠		
	<u>.348.</u> 00	Forced defrost (manual)	•	•		•
		MODBUS protocol	•	•	•	•
	V	Number of units in MODBUS	16	32	18	16
	25°C	Heating	•	•	•	•
	V	Heating at low temperature down to -25°C	•	•	•	•
	*	Cooling	•	•	•	•
	İ	DHW	•	•	•	•
Feature	້ ພື້ນເປັ	Maximum leaving water temperature in heating mode [°C]	65/60 ⁽⁹⁾	62	65	65
		Maximum leaving water temperature in DHW mode [°C]	60/55 ⁽⁹⁾	62	60	60
	*	Minimum leaving water temperature in cooling mode [°C]	5	5	5	7
	Ś	Eco mode	•	٠	•	
	#	Smart Grid functionality	•		•	•
	$\langle 7 \rangle$	Power limitation function	•			
	-	Environmentally friendly refrigerant R32	•	•	•	•
	Ľ	Compact indoor split unit housing	270	-	270	273
	<	SLIM housing – 270 mm	•		•	
	Ś	Professional customer service	•	٠	•	•
	0	Prepared to install thermostats	•	٠	•	•
		Prepared to combine the system with photovoltaic panels	•	•	•	•
		Prepared to combine the system with solar panels	•	•	•	•
		Prepared to connect additional heat source (e.g. boiler)	•	٠	•	•
	2000	Prepared to create a cascade system	•		•	•
	V	Maximum number of units in a cascade system	6 (up to 180 kW)		8 (up to 80 kW)	8 (up to 128 kW)

Not available in Aquami Big Mono
 Aquami Big Mono 30 kW and Aquami Multi Split A++.
 Aquami Big Mono 30 kW and Aquami Multi Split A+.
 30 m for Aquami Split, All in Split, 80 m for Aquami Multi Split.
 The depth of Airmi indoor unit is 273 mm.
 For Windmi pumps more settings are available in the application.

This sensor cannot be used for control in the Multi system.
 The second value applies to Aquami Big Mono and Aquami Multisplit.
 Applies to Airmi Monoblock.
 Does not apply to Aquami Big Mono and Aquami Multi Split.

* Smart Home – only for Aquami Multi.

The widest range of Rotenso heat pumps on the market



Type: air-to-water heat pump Solutions: SPLIT, MONOBLOCK, ALL IN SPLIT, BIG MONO, MULTI SPLIT





Type: air-to-water heat pump Solutions: **MONOBLOCK**



Type: air-to-water heat pump Solutions: **SPLIT**



AIRQU S E R I E S

Type: air-to-water heat pump Solutions: **SPLIT, MONOBLOCK**



How to choose the right **Rotenso heat pump?**



Choose the ALL IN SPLIT heat pump with integrated domestic water tank:

- AQUAMI ALL IN SPLIT > p.70

Choose the SPLIT heat pump with domestic water tank:

- AQUAMI SPLIT > p.64
- HEATMI SPLIT > p.120
- AIRMI SPLIT > p.142
- THERMOS INOX > p.176
- THERMOS CERAMIC > p.176

Choose the MULTI Type heat pump to provide heating (air-towater heat pump) and connect air-conditioning units (air-to-air heat pump)

- AQUAMI MULTI SPLIT > p.88

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Heating of the living space and domestic water

Heating and cooling of the living space

Choose the MONOBLOCK Type heat pump with domestic water tank

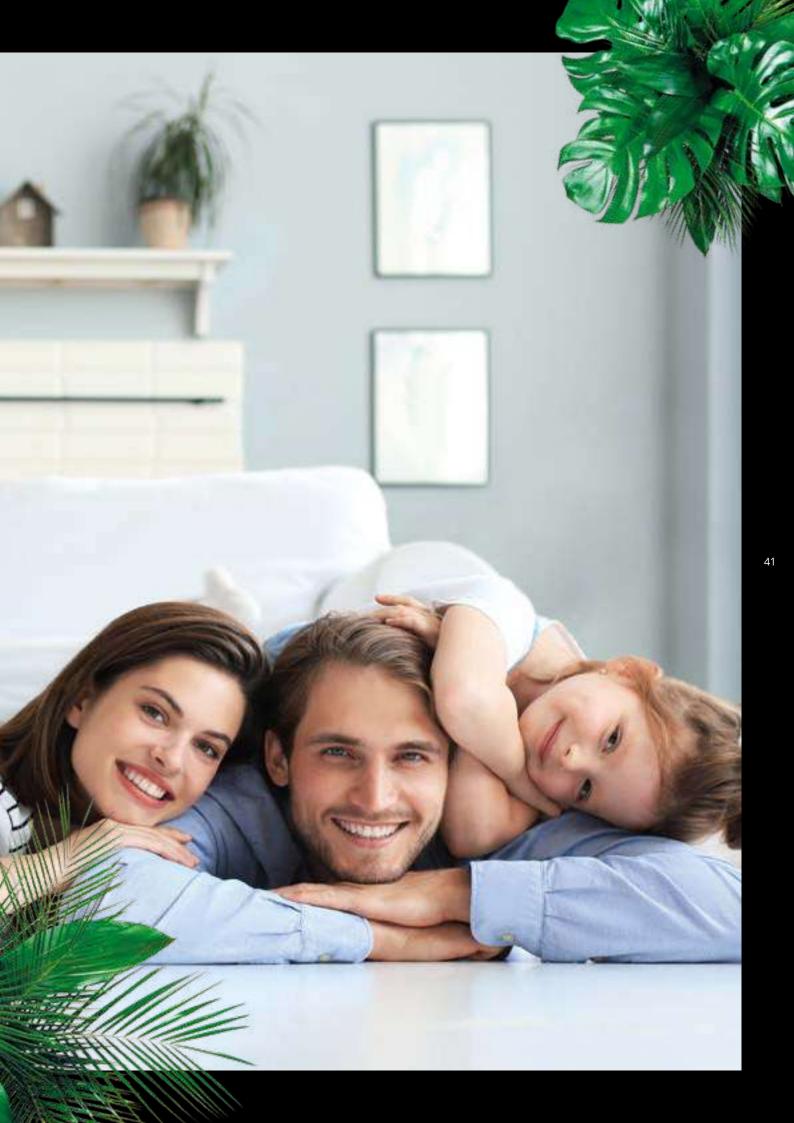
- AQUAMI MONOBLOCK > p.76
- WINDMI MONOBLOCK > p.104
- AIRMI MONOBLOCK > p.148
- THERMOS INOX > p.176
- THERMOS CERAMIC > p.176

WE ARE FUTURE

AQUAQU S E R I E S

Split, All in Split, Monoblock, Big Mono, Multi Split. **Rotenso Aquami Series.**





Aquami Series **useful features**

Rotenso Aquami heat pumps are modern, high capacity, energy-efficient and, what is most important, maintenance-free heating systems. A number of useful features provides thermal comfort with no effort from the user.



Combination of operating mode

To meet the user requirements 4 basic operation modes (cooling, heating, DHW, auto) and 3 combined operation modes are available.



Heat pump power limitation

Users can choose from 8 configurations, depending on the maximum acceptable power.



Disinfection

Heating water in the system to 70°C contributes to the effective elimination of Legionella bacteria. AQUAQUES E R I E S



Floor protection

Gradual removal of residue moisture from the concrete floor.



Fast DHW heating mode

Forces the system into DHW mode for immediate hot water preparation.



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DHW circulation pump control

Keeps hot water circulating in the system according to a preset timer.

Perfectly compact **housing**

Rotenso heat pump design is a response to the individual needs of investors, owners of large and small buildings, as well as changing standards in residential construction industry.

The smallest indoor unit on the market with a depth of just 270 mm.

Depth reduced by 37%*

*as compared to competing units available on the market.





Ergonomic **products**

The compact housing of the indoor unit allows for discreet installation and neat arrangement of the hydronic module in the living space.

This solution is preferred by owners of buildings with no boiler room or separate utility room.

Floor **drying**

Gradual removal of residue moisture from the concrete floor. This feature, useful for newly constructed residential and commercial buildings, heats the floor using safe temperature, as specified by standards and manufacturers' guidelines, in order to prevent floor cracks and edge deflections.



You control **It performs**

With Rotenso Aquami you can control the system using both a wired controller and a mobile app, whether you are at home or away.





RENI heat pump controller in Split and Monoblock Rotenso Aquami systems

Wired controller in a single unit mode

You can use the controller to:

- Check the heat pump operation status and operation mode
- Set temperature and operation mode
- Easily activate: Silent mode, Vacation mode, home Vacation mode, eco mode
- Set up schedule and timer
- Activate second temperature control zone
- Monitor system status
- Track energy consumption
- Discover energy-saving tips
- Control the device remotely
- Set the heating curve
- Display error codes
- Set language for messages
- Enable parental lock
- Check operating parameters
- Set audible alarm

The controller with an integrated temperature sensor can act as an indoor thermostat. If placed in a room, it can be connected in parallel to the second controller to manage device operation modes or set up the temperature of the heating water.





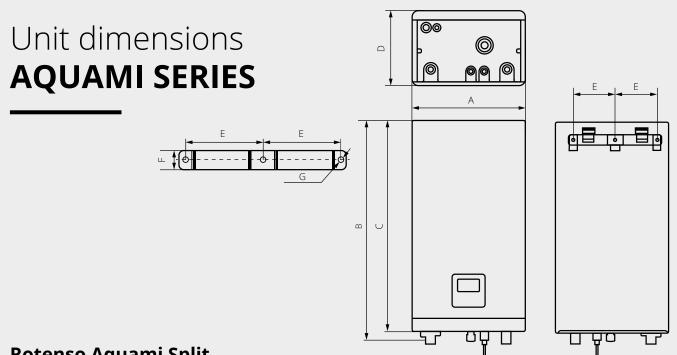
Wired controller in MULTI mode

You can use the controller to:

- Set temperature and operation mode
- Easily activate: Vacation mode, eco mode
- Set up schedule and weekly timer
- Control the device remotely
- Display error codes
- Set language for messages
- Enable parental lock
- Check operating parameters
- Set audible alarm

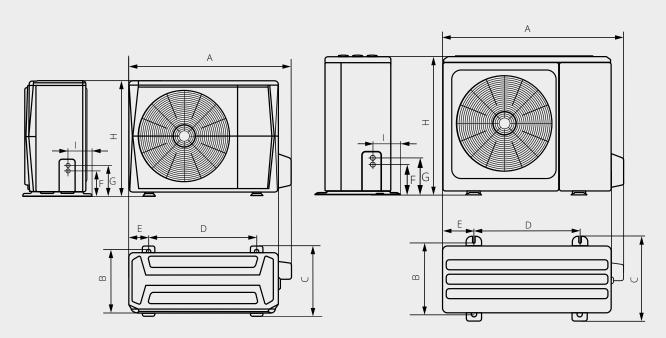


NOKA heat pump controller in MULTI Rotenso Aquami system



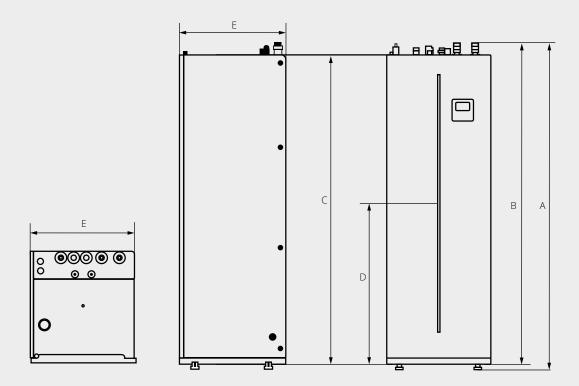
Rotenso Aquami Split indoor unit 6/10/16 kW

Model	Power	Net dimensions (W×D×H) [mm]	A	В	c	D	E	F	G	Net weight [kg]
AQS60X13i	6 kW	420 × 270 × 790	420	824	790	270	158	40	3 x Ø12	37
AQS100X13i	10 kW	420 × 270 × 790	420	824	790	270	158	40	3 x Ø12	37
AQS160X13i	16 kW	420 × 270 × 790	420	824	790	270	158	40	3 x Ø12	39



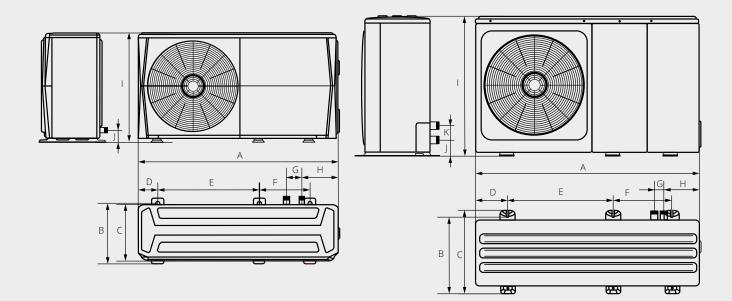
Rotenso Aquami Split outdoor unit 4/6/8/10/12/14/16 kW

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W×D) [mm]	A	В	с	D	E	F	G	н	I	Net weight [kg]
AQS40X1o	4 kW	1008 × 426 × 712	663 × 375	1008	375	426	663	134	110	170	712	160	58
AQS60X1o	6 kW	1008 × 426 × 712	663 × 375	1008	375	426	663	134	110	170	712	160	58
AQS80X1o	8 kW	1118 × 523 × 865	656 × 456	1118	456	523	656	191	110	170	865	230	75
AQS100X1o	10 kW	1118 × 523 × 865	656 × 456	1118	456	523	656	191	110	170	865	230	75
AQS120X3o	12 kW	1118 × 523 × 865	656 × 456	1118	456	523	656	191	110	170	865	230	112
AQS140X3o	14 kW	1118 × 523 × 865	656 × 456	1118	456	523	656	191	110	170	865	230	112
AQS160X3o	16 kW	1118 × 523 × 865	656 × 456	1118	456	523	656	191	110	170	865	230	112



Rotenso Aquami All in Split indoor unit 10/16 kW

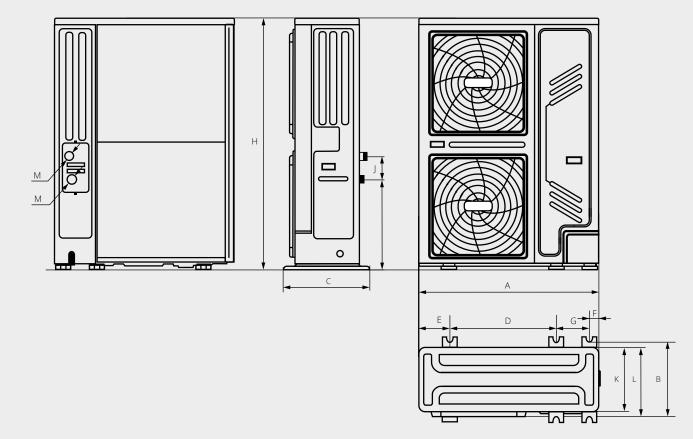
Model	Power	Net dimensions (W×D×H) [mm]	A	В	c	D	E	Net weight [kg]
AQS100T190X1i	10 kW	600 × 600 × 1683	1775	1748	1682	915	600	139
AQS100T240X13i	10 kW	600 × 600 × 1943	2034	2007	1942	1045	600	156
AQS160T240X13i	16 kW	600 × 600 × 1943	2034	2007	1942	1045	600	158



Rotenso Aquami Monoblock outdoor unit 4/6/8/10/12/14/16 kW

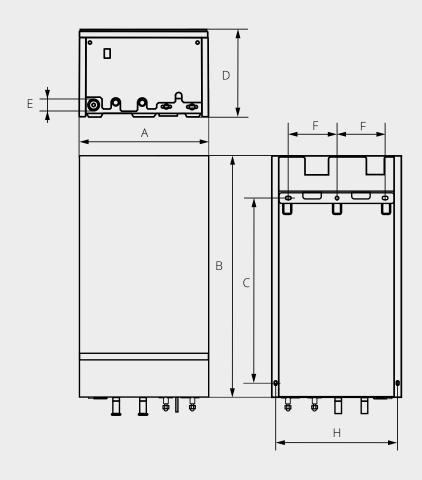
Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (S1×S2xG) [mm]	A	В	с	D	E	F	G	н	I.	J	к	Net weight [kg]
AQM40X1o	4 kW	1295 × 429 × 718	656 x 363 x 488	1295	401	429	115	638	379	105	225	718	161	-	91
AQM60X1o	6 kW	1295 × 429 × 718	656 x 363 x 488	1295	401	429	115	638	379	105	225	718	161	-	91
AQM80X1o	8 kW	1385 × 526 × 865	656 x 363 x 488	1385	488	526	192	656	363	60	221	865	182	81	110
AQM100X1o	10 kW	1385 × 526 × 865	656 x 363 x 488	1385	488	526	192	656	363	60	221	865	182	81	110
AQM120X3o	12 kW	1385 × 526 × 865	656 x 363 x 488	1385	488	526	192	656	363	60	221	865	182	81	149
AQM140X3o	14 kW	1385 × 526 × 865	656 x 363 x 488	1385	488	526	192	656	363	60	221	865	182	81	149
AQM160X3o	16 kW	1385 × 526 × 865	656 x 363 x 488	1385	488	526	192	656	363	60	221	865	182	81	149

Unit dimensions **AQUAMI SERIES**



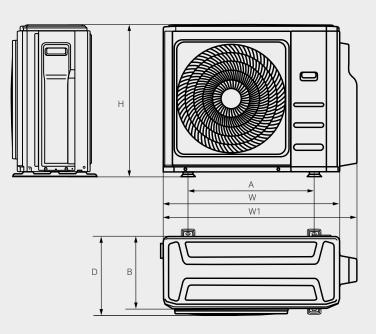
Rotenso Aquami Big Mono outdoor unit 22/30 kW

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W1×W2×D) [mm]	A	в	с	D	E	F	G	н	I.	J	к	L	м	Net weight [kg]
AQM220X3	22 kW	1129 × 528 × 1558	668 x 206 x 494	1129	494	528	668	192	98	206	1558	558	143	400	440	Ø 1-1,4"	177
AQM300X3	30 kW	1129 × 528 × 1558	668 x 206 x 494	1129	494	528	668	192	98	206	1558	558	143	400	440	Ø 1-1,4"	177



Rotenso Aquami Multi Split indoor unit 8 kW

Model	Net dimensions (W×D×H) [mm]	Gross dimensions (W×D×H) [mm]	A	В	c	D	E	F	н	Net weight [kg]
AQMS80X1i	490 × 918 × 325	570 × 1055 × 415	490	918	702,5	325	44	183,7	462,2	56/64



Rotenso Aquami Multi Split outdoor unit 10 kW

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W×D) [mm]	w	W1	А	В	D	н	Net weight [kg]
H100Xm4	10 kW	946 × 410 × 810	673 × 403	946	1034	673	403	410	810	68,8

Solutions **AQUAMI SERIES**







Rotenso Aquami Split consists of an outdoor unit (condenser) and a hydronic module for indoor installation.



Rotenso Aquami All in Split

consists of an outdoor unit (condenser) and a hydronic module integrated with domestic hot water tank made of stainless steel for indoor installation.







Rotenso Aquami Monoblock is a heat pump in which the refrigeration module and the hydronic module are contained in a single, compact unit housing designed for outdoor installation.



Rotenso Aquami Big Mono

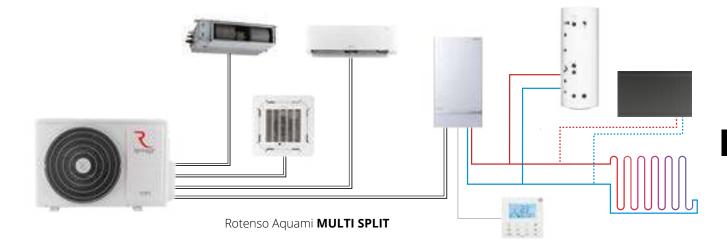
is a heat pump with large capacity (22 kW and 30 kW) in which the refrigeration module and the hydronic module are contained in a single, compact unit housing designed for outdoor installation.



MULTI SPLIT Multiple features combined in a single system

Aquami Multi Split is a combination of air-to-water and air-to-air heat pump systems for residential and commercial applications with the capacity of 10 kW (air-to-air) and 8 kW (air-to-water).

4 indoor units can be connected to the system. In addition to the Multi Aquami unit operating in the air-to-water mode, you can connect up to 3 Multi Series air-conditioners operating in the air-to-air mode. Aquami heat pumps can be used in both new and retrofit buildings.





Solution AQUAMI SPLIT



Rotenso Aquami Split heat pump consists of an outdoor unit (condenser) and a hydronic module (for indoor installation). Such solution allows easy access to the hydronic module. Connection of outdoor and indoor units' refrigeration circuits is resistant to freezing, even during prolonged power outages.

Modern design and high efficiency at low temperatures make Rotenso Aquami heat pumps a perfect choice for heating homes, stores, commercial premises and offices.

Standard equipment:

- 1. Indoor unit
- 2. Outdoor unit
- 3. Wired controller
- 4. DHW tank sensor
- 5. Plate PHE / plate heat exchanger
- 54 6. Flow meter
 - 7. Diaphragm vessel
 - 8. Pressure gauge
 - 9. Circulation pump
 - 10. Pressure relief valve
 - 11. Purge valve
 - 12. Y water filter





Indoor unit Hydrobox

AQS60X13i, AQS100X13i, AQS160X13i





4-6 kW

8-16 kW

Model	Rotenso Aquami Split									
Capacity (kW)	4	6	8	10	12	14	16			
220-240~50, 1f	•	•	•	•						
380-420~50, 3f					•	•	•			

Solutions **AQUAMIALL IN SPLIT**



Similar to split-Type heat pump, Rotenso All in Split solution consists of an outdoor unit and an indoor unit (hydronic module). The difference is that in the All in Split heat pump the hydronic module has been integrated with the domestic hot water (DHW) tank. As a whole, the hydrobox and DHW tank are enclosed in a single housing to form a compact indoor unit which can be integrated in the hallway furniture, placed in a laundry room or in the kitchen along with other household appliances. Connection of outdoor and indoor units' refrigeration circuits is resistant to freezing, even during prolonged power outages.

The quality of components and solutions, e.g. corrosion-resistant stainless steel DHW tank, ensures many years of trouble-free operation.

Standard equipment:

- 1. Indoor unit
- 2. Outdoor unit
- 3. Wired controller
- 4. DHW tank sensor
- 5. Plate PHE / plate heat exchanger
- 6. Flow meter
- 7. Diaphragm vessel
- 8. Pressure gauge
- 9. Circulation pump
- 10. Pressure relief valve
- 11. Purge valve
- 12. Y water filter
- 13. 3-way switching valve with actuator







Indoor unit Hydrobox AQ\$100T190X1i, AQ\$100T240X13i, AQ\$160T240X13i





4-6 kW

8-16 kW

Model			Rotenso	Aquami All ir	n Split		
Capacity (kW)	4	6	8	10	12	14	16
220-240~50, 1f	•	•	•	•			
380-420~50, 3f					•	•	•

Solution AQUAMI MONOBLOCK



Rotenso Aquami Monoblock is a heat pump in which the refrigeration module and the hydronic module are contained in a single, compact unit housing. This Type of solution makes heat pump installation faster and easier, and requires no additional space for the hydronic module inside the building.

Double door heat pump housing provides easy access to all its components. Heat pump operating parameters can be quickly modified and monitored in real time from the user interface. Modern design of Rotenso Aquami Monoblock heat pump and its high efficiency even at extremely low temperatures makes it a perfect choice for heating homes, stores, commercial premises and offices.

Standard equipment:

- 1. Outdoor unit
- 2. Wired controller
- 3. DHW tank sensor
- 4. Plate PHE / plate heat exchanger
 - 5. Flow meter

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- 6. Diaphragm vessel
- 7. Circulation pump
- 8. Pressure relief valve
- 9. Purge valve
- 10. Y water filter







4-6 kW

8-16 kW

Model		Rotenso Aquami Monoblock										
Capacity (kW)	4	6	8	10	12	14	16					
220-240~50, 1f	•	•	•	•								
380-420~50, 3f					•	•	•					

Solution AQUAMI BIG MONO



Rotenso Aquami Big Mono is characterized by larger heating capacity (up to 30 kW) designed for buildings with higher heating power demand. In this double-fan Rotenso Aquami Big Mono pump, the refrigerating and hydronic modules are enclosed in a single, compact unit housing.

This eliminates cascade connection of several units with lower capacities. Another benefit is quick and easy installation. The Rotenso Aquami Big Mono heat pump also requires no additional space for the hydronic module inside the building. Heat pump housing is designed to provide an easy access to all its components, while operating parameters can be quickly modified and monitored in real time from the user interface.

Modern double-fan design of the Rotenso heat pump and its high efficiency even at low temperatures make it a perfect choice for heating homes, stores, commercial premises, offices and other facilities with high heating power demand.

Standard equipment:

- 1. Outdoor unit
- 2. Wired controller
- 3. DHW tank sensor
- 4. Plate PHE / plate heat exchanger
- 5. Flow meter
- 6. Diaphragm vessel
- 7. Circulation pump
- 8. Pressure relief valve
- 9. Purge valve
- 10. Y water filter







22-30 kW

Model	Rotenso Aqu	ami Big Mono
Capacity (kW)	22	30
220-240~50, 1f		
380-420~50, 3f	•	•

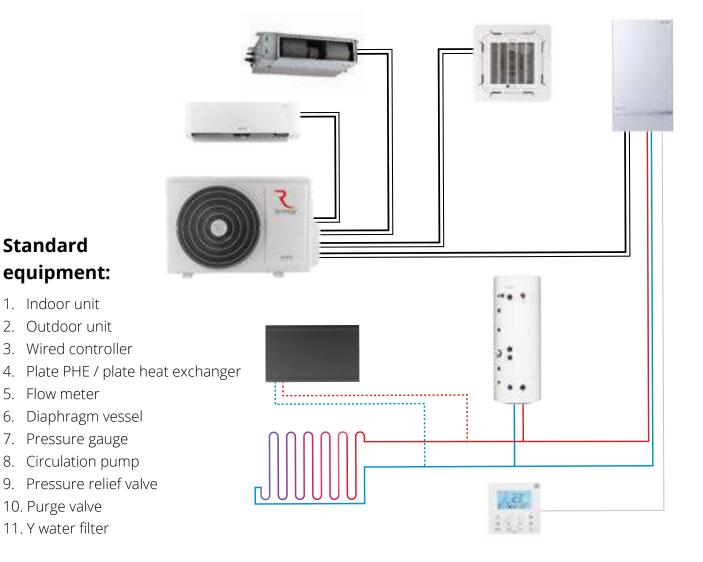
Solution **AQUAMI MULTI SPLIT**



Multi Split Aquami is a combination of air-to-water and air-to-air heat pump systems with a capacity of 8 kW for residential and commercial applications. 4 indoor units can be connected to the system. In addition to the Multi Split Aquami hydronic module operating in the air-to-water mode, you can connect up to 3 Multi Split Series air-conditioners operating in the air-to-air mode.

By combining the Hiro H100Xm4 Multi Split outdoor unit and the Aquami heat pump indoor unit in a hybrid system, you can:

- Heat or cool spaces using air systems (air conditioners)
- Heat spaces using water systems (underfloor heating, radiators, fan coils)
- Heat domestic hot water.



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Indoor unit Hydrobox

AQMS80X1i



8 kW

Model		Rotenso Aquami Multi Split (R32)										
Capacity (kW)	4	6	8	10	12	14	16					
220-240~50, 1f			•									
380-420~50, 3f												



Aquami Series **Split**

Rotenso Aquami Split heat pump consists of an outdoor unit and a hydronic module, so called hydrobox, for indoor installation. Rotenso Aquami Split heat pump features the highest energy efficiency class A+++. The excellent capacity of the Aquami Split series contributes to low electricity consumption.

Due to its freeze-resistance and capacity at extremely low outdoor temperatures down to -25°C, the amount of heating energy produced by the heat pump can be five times the amount of the consumed electric energy.

The series has the advantage of easy access to the hydronic module and its connection between the refrigeration circuits of outdoor and indoor units is resistant to freezing even during prolonged power outages. Rotenso Aquami heat pump can heat water up to 65°C which allows it to supply central heating systems with traditional radiators. Heat pump's single-fan design, bionic fan blade pattern as well as twin rotary DC compressor ensure the Rotenso Aquami's high efficiency with minimal noise – only 35 dB (A) (in Silent mode).

The heat pump can be controlled by a wired controller or a COMFORT HOME mobile app to make its daily use even more convenient.



AQUAMI







Operating range down to -25°C

(((•)

Controller

equipped with

a temperature sensor

Supply water temperature of 65°C

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П

Integrated Wi-Fi

module

Smart Grid functionality



Control via mobile app









Controller equipped with a temperature sensor

If the sensor detects a difference between the set temperature and the actual temperature in the room, the heat pump will operate to reach the desired temperature inside the building.





Supply water temperature of 65°C

If the heat pump is used to heat spaces where radiators are installed, temperature of the supply water in the system must be higher. Rotenso Aquami heat pumps can heat water up to 65°C.

Integrated Wi-Fi module

The Rotenso Aquami Split heat pump can be controlled both by the wired controller and the COMFORT HOME mobile app, whether you are staying at home or not.



Smart Grid functionality

The heat pump controller is designed to work with the "Smart Grid". With this feature, the pump automatically turns on to store surplus energy from the photovoltaic (PV) system to make the most of the cheaper electricity tariff.



down to -25°C

Heat pumps are prepared for efficient operation even at extreme outdoor temperatures as low as -25°C. During the cold winter, they guarantee that supply water for central heating and domestic hot water are heated sufficiently.



Control via mobile app

You can use your tablet or smartphone to control the Rotenso Aquami Split unit no matter where you are.



Compact indoor split unit housing



Multilanguage menu



Prepared to create a cascade system

1. Refers to units AQS40X1o and AQS80X1o



Maximum

up to 30m

Integrated temperature

sensor

Modbus Protocol

Silent installation length mode



Weather operating

modes (climate curve)



Built-in Wi-Fi

module

2 heating control zones

Dedicated application

Ø



Disinfection



ß

schedules

water temperature of 60°C (in DHW mode)











Vacation mode





Maximum leaving

Daily operation schedule



+

Configurable

Technical specification

Indoor unit model				AQ\$60X13i		AQS100X13i		AQ\$160X13i		
EAN product code				5905567602115		5905567602122		5905567602139		
EAN product code Compatible outdoor unit model										
Compatible outdoor unit model Operation modes				AQS40/60X1o Heating and cooling		AQS80/100X1o Heating and cooling		AQS120/140/160X3o		
Operation modes	Space cooling °C			5~25				Heating and cooling 5~25		
Leaving water	Space heating		°C	25~65		5~25		25~65		
temperature			C.	30~60						
DHW (tank)		V-Hz, Ø	30~60 220-240~50, 1f / 380-420~50, 3f		30~60 220-240~50, 1f / 380-420~50, 3f		30~60 220-240~50, 1f / 380-420~50, 3f			
				220-240~50, 117 380-420~50, 31 9095 / 13,5		9095 / 13.5				
			W/A	38		42		9095 / 13,5 43		
Sound power level dB(A)										
Power supply V-Hz, Ø			220-240~50, 1f / 380-420~50, 3f 3 / 9		220-240~50, 1f/ 380-420~50, 3f		220-240~50, 1f / 380-420~50, 3f			
Electric heater	Number of heating stages / Power		pcs. / kW			3/9(3+3+3)		3 / 9 (3 + 3 + 3)		
Maximum running current		1	A	13,3		13,3		13,3		
Net dimensions W × D × H			mm	420 × 270 × 790		42 0× 270 × 790		420 × 270 × 790		
Gross dimensions			mm	525 × 36	50 × 1050	525 × 36	50 × 1050	525 × 360 × 1050		
Net weight / Gross weight		kg	37/43		37/43		39/45			
	Water connections		mm (inch)	R1" external		R1" external		R1" external		
Water circuit	Pressure relief valve		MPa	0,3		0,3		0,3		
	Condensate drain			Φ25		Φ25		Φ25		
		Total volume / Actual volume	1	8 / 4,8		8 / 4,8		8 / 4,8		
	Expansion tank	Maximum pressure / Initial pressure	MPa	0,3	/ 0,1	0,3	/ 0,1		0,3 / 0,1	
	PHE / plate heat	HE / plate heat Type		PHE / plate heat exchanger		PHE / plate heat exchanger		PHE / plate heat exchanger		
	exchanger Minimum flow		l/min	6		10		10		
	Water pump head		m	9		9		9		
	Water pump head Water pump type			DC		DC		DC		
Refrigerant circuit			mm	Φ6,35 (1/4") / Φ15,9 (5/8")		Φ9,52 (3/8") / Φ15,9 (5/8")		Φ9,52 (3/8") / Φ15,9 (5/8")		
			pcs × mm ²	5×2,5		5 × 2,5		ψ9,52 (3/6) / Ψ15,9 (5/6) 5 × 2,5		
Minimal wire pcs and dimension of cords* Control cables: indoor unit to outdoor unit			pcs × mm ²	2 × 0,75 (shielded cable)		5 × 2,5 2 × 0,75 (shielded cable)		2 × 0,75 (shielded cable)		
			μcs ~ IIIII#		1					
Outdoor unit model				AQS40X1o	AQS60X1o	AQS80X1o	AQS100X1o	AQS120X3o	AQS140X3o	AQS160X3o
EAN product code				5905567601071	5905567602054	5905567602061	5905567602078	5905567602085	5905567602092	5905567602108
Compatible indoor un	it model			AQS40X13i	AQS60X13i	AQS100X13i	AQS100X13i	AQS160X13i	AQS160X13i	AQS160X13i
Power supply				220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
	Capacity		kW	4,25	6,20	8,30	10,00	12,10	14,50	16,00
Heating	Rated input		kW	0,82	1,24	1,60	2,00	2,44	3,09	3,56
(A7/W35)	COP			5,20	5,00	5,20	5,00	4,95	4,70	4,50
	Capacity			4,35	6,35	8,20	10,00	12,30	14,20	16,00
Heating (A7/W45)			kW kW					3,24	3,89	1
	Rated input		NYV.	1,14	1,69	2,08	2,63			4,44
	COP			3,80	3,75	3,95	3,80	3,80	3,65	3,60
Heating (A7/W55)	Capacity		kW	4,40	6,00	7,50	9,50	12,00	13,80	16,00
	Rated input		kW	1,49	2,00	2,36	3,06	3,87	4,60	5,52
	COP			2,95	3,00	3,18	3,10	3,10	3,00	2,90
Cooling	Capacity		kW	4,50	6,55	8,40	10,00	12,00	13,50	14,90
(A35/W18)	Rated input		kW	0,81	1,34	1,66	2,08	3,00	3,75	4,38
	EER			5,55	4,90	5,05	4,80	4,00	3,60	3,40
	Capacity		kW	4,70	7,00	7,40	8,20	11,60	12,70	14,00
Cooling	Rated input		kW	1,36	2,33	2,19	2,48	4,22	4,98	5,71
(A35/W7)	EER			3,45	3,00	3,38	3,30	2,75	2.55	2,45
	SCOP ⁽¹⁾			4,85	4,95	5,21	5,19	4,81	4,72	4.62
			kW	5,5	6,8	8,1	9,2	12	13,7	15,2
Seasonal energy			96	191	195	205,6	204,8	189,4	185,7	
efficiency LWT 35°C	Seasonal energy efficiency ratio (ηS)									181,7
LWISSC	Annual energy consumption		kWh	2351	2845	3218	3644	5152	6012	6804
	Seasonal space heating energy efficiency class ⁽¹⁾			A+++	A+++	A+++	A+++	A+++	A+++	A+++
	SCOP ⁽¹⁾			3,31	3,52	3,36	3,49	3,45	3,47	3,41
Seasonal energy			kW	4,4	5,7	6,6	7,7	11,6	12,1	13
efficiency	Seasonal energy ef	ficiency ratio (ηS)	96	129,5	137,9	131,6	135,7	135,1	135,6	133,2
LWT 55°C	Annual energy consumption		kWh	2742	3343	4054	4567	6927	7202	7896
	Seasonal space heating energy efficiency class (1)			A++	A++	A++	A++	A++	A++	A++
SEER	LWT at 7°C			4,99	5,34	5,83	5,98	4,86	4,83	4,67
JLER	LWT at 8°C			7,77	8,21	8,95	8,78	7,04	6,85	6,71
Minimum rated curren	nt of the overcurrent circuit breaker with breaker type		A	B16	B16	B20	B20	B16	B16	B16
Compressor				Twin rotary inverter compressor DC						
	Туре		Brushless DC motor / BLDC							
Fan	Quantity			1	1	1	1	1	1	1
	Type/ GWP			R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675
Refrigerant	Charged (<15m)		kg	1,5	1,5	1,65	1,65	1,84	1,84	1,84
Kenigerarit	Charged (<15m)		TCO,eq		1,02			1,84	1,04	1,24
	Linuid (C		rco ₂ eq	1,02		1,11	1,11			
	Liquid / Gas		mm	Φ6,35 (1/4") / Φ15,9 (5/8")	Φ6,35 (1/4") / Φ15,9 (5/8")	Φ9,52 (3/8") / Φ15,9 (5/8")	Φ9,52 (3/8") / Φ15,9 (5/8")	Φ9,52 (3/8") / Φ15,9 (5/8")	Φ9,52 (3/8") / Φ15,9 (5/8")	Φ9,52 (3/8") / Φ15,9 (5/8")
Pipe connections	Minimum installation length		m			2				
	Minimum installation length		m	2	2		2	2	2	2
	Maximum installation length		m	30	30	30	30	30	30	30
	Additional amount of refrigerant for over 15 linear meters		g/m	20	20	38	38	38	38	38
Maximum height	Outdoor unit above the indoor unit		m	20	20	20	20	20	20	20
difference			m	20	20	20	20	20	20	20
		pcs × mm²	3 × 2,5	3 × 2,5	3×4	3 × 4	5 × 2,5	5 × 2,5	5 × 2,5	
		pcs × mm ²				2 × 0,75 (shielded cable)				
Bracket spacing		W×D	663 × 375	663 × 375	656 × 456	656 × 456	656 × 456	656×456	656 × 456	
Sound pressure level		dB(A)	44	45	46	49	50	51	55	
Sound power level			56	58	59	60	64	65	68	
Vet dimensions (W×D×H)		mm	1008 × 426 × 712	1008 × 426 × 712	1118 × 523 × 865	1118 × 523 × 865	1118 × 523 × 865	1118 × 523 × 865	1118 × 523 × 865	
Gross dimensions (W×D×H) Gross dimensions (W×D×H)		mm	1065 × 485 × 800	1065 × 485 × 800	1118 × 560 × 890	1180 × 560 × 890	1180 × 560 × 890	11180 × 560 × 890	1118 × 560 × 890	
Net weight/Gross weig			kg	58 / 63,5	58 / 63,5	75 / 89	75 / 86	112 / 125,5	112/125,5	112 / 125,5
Operating outdoor	Cooling		°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43
temperature DHW				-25~35	-25~35	-25~35	-25~35	-25~35	-25~35	-25~35
			°C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43

1. Seasonal energy efficiency class measured under average climate conditions.

Notes: DHW – Domestic hot water LWT – Leaving water temperature The sound pressure levels measured 1m in front of the unit and (1+H)2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W45, ΔT=5; A7W55 ΔT=8; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02: 2014.

The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than Idn: 30mA *The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.



Aquami Series All in Split

Similar to split-Type heat pump, Rotenso All in Split solution consists of an outdoor unit and an indoor unit (hydronic module). The difference is that in the All in Split heat pump the hydronic module has been integrated with the domestic hot water (DHW) tank.

As a whole, the hydrobox and DHW tank form a compact indoor unit which can be integrated in the hallway furniture, placed in a laundry room or in the kitchen along with other household appliances. Connection of outdoor and indoor units' refrigeration circuits is resistant to freezing, even during prolonged power outages.

The quality of components and solutions, e.g. corrosion-resistant stainless steel DHW tank, ensures many years of trouble-free operation All-in-one air-to-water heat pumps have been developed in response to market demand for compact units that can be arranged within living spaces. The Rotenso Aquami All in Split heat pump is an excellent solution for small residential buildings without a separate boiler room.









Operating range down to -25°C

Supply water temperature of 65°C

Integrated DHW tank



steel

ッ ы

module



Control via mobile app





Integrated **DHW tank**

Specific design of the indoor unit is to integrate the hydronic module with the domestic hot water (DHW) tank. As a whole, the hydrobox and DHW tank are enclosed in a single housing to form sleek and compact indoor module suitable for small residential buildings with no separate boiler room.



Operating range down to -25°C

Heat pumps are prepared for efficient operation even at extreme outdoor temperatures as low as -25°C. During the cold winter, they guarantee that supply water for central heating and domestic hot water are heated sufficiently.



The Rotenso Aquami Split heat pump can be controlled both by the wired controller and the COMFORT HOME mobile app, whether you are staying at home or not.



Tank of stainless steel

JThe quality of components and solutions, e.g. stainless steel DHW tank, ensures many years of trouble-free operation. This corrosion-resistant tank made of high-quality material has no magnetic or titanium anodes that have to be replaced on a regular basis, which translates into greater comfort.



Supply water temperature of 65°C

If the heat pump is used to heat spaces where radiators are installed the temperature of the supply water in the system must be higher. Rotenso Aquami heat pumps can heat water up to 65°C.



Control via mobile app

You can use your tablet or smartphone to control the Rotenso Aquami ALL IN Split unit no matter where you are.



Technical specification

Indoor unit mode				AOS100	T190X1i	AOS100	T240X13i	AQS160T240X13i				
EAN product code				590556			7602153	5905567602160				
Compatible outdoo	or unit model				'80/100X1o		/80/100X1o	AQ5120/140/160X3o				
Operation modes				Heating a	nd cooling	Heating a	nd cooling	Heating and cooling				
Leaving water	Space cooling		°C		25		-25	5~25				
temperature	Space heating		°C		-65	25~65 30~60			25~65			
Power supply	DHW (tank)		V-Hz, Ø		~60 D~50, 1f		~60 / 380-420~50, 3f	30~60 220-240~50, 1f / 380-420~50, 3f				
Rated input / Opera	ating current		W / A		/ 13,5		/ 13.5	2.	9095 / 13,5	21		
Sound power level			dB(A)		/ 40 (2)		/ 40 (2)		42 (3) / 44 (4)			
	Power supply			220-24	0~50, 1f	220-240~50, 1f	/ 380-420~50, 3f	22	20-240~50, 1f / 380-420~50,	3f		
Electric heater	Number of heating s		pcs. / kW		/ 3		+ 3 + 3)		3 / 9 (3 + 3 + 3)			
	Maximum operating		A		3,3		3,3		13,3			
Net dimensions		W × D × H	mm		0×1683		00 × 1943		600 × 600 × 1943			
Gross dimensions	weight		mm kg	653 × 65	3×1900 /154		i3 × 2160 / 171		653 × 653 × 2160 158 / 173			
Tvet weight? Gross	Water connections		mm (inch)	R1" ex			ternal		R1" external			
	Pressure relief valve		MPa		,3		,3		0,3			
	Condensate drain			Φ.	25	Φ	25		Φ25			
	Expansion tank	Total volume / Actual volume	I	8 /			4,8		8 / 4,8			
		Maximum pressure / Initial pressure	e MPa	0,3		0,3			0,3 / 0,1			
	PHE / plate heat exchanger	Type Minimum flow	l/min	PHE / plate h	eat exchanger 5	PHE / plate h	-		PHE / plate heat exchanger 10			
Water circuit	Water pump head	Minimum now	m		3		9		9			
water circuit	Water pump head				, IC)C		DC			
		Tank material		Stainless		Stainless			Stainless steel 316L			
		Housing material/colour		Polyurethane fo			am, steel / white	Pe	olyurethane foam, steel / wh	te		
		Tank capacity	1	19	90	2	40		240			
	DHW tank	Maximum water temperature	°C	7	0		70		70			
		(disinfection mode)										
		Insulation thickness Maximum pressure	mm bar	4	5		0		45			
Refrigerant circuit	Liquid / Gas	maximum pressure	mm	Φ9,52 (3/8").			/ Φ15,9 (5/8")		Φ9,52 (3/8") / Φ15,9 (5/8")			
· ·	nd dimension of cords*		pcs × mm ²	\$ ×			2,5		5 × 2,5			
	por unit to outdoor unit		pcs × mm ²	2 × 0,75 (shi	ielded cable)	2 × 0,75 (sh	ielded cable)		$2 \times 0,75$ (shielded cable)			
Outdoor unit mod	del			AQS40X1o	AQS60X1o	AQS80X1o	AQS100X1o	AQ\$120X3o	AQS140X3o	AQS160X3o		
EAN product code				5905567601071	5905567602054	5905567602061	5905567602078	5905567602085	5905567602092	5905567602108		
Compatible indoor	unit model				AQS100T190X1i /	/ AQS100T240X13i			AQS160T240X13i			
Power supply			kW	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f		
Heating	Capacity			4,25	6,20	8,30	10,00	12,10	14,50	16,00		
(A7/W35)	Rated input		kW	0,82	1,24	1,60	2,00	2,44	3,09	3,56		
	COP			5,20	5,00	5,20	5,00	4,95	4,70	4,50		
Heating	Capacity Rated input		kW kW	4,35	6,35	8,20	2,63	12,30	14,20 3,89	16,00		
(A7/W45)	COP		NIV	3,80	3,75	3,95	3,80	3,24	3,65	3,60		
	Capacity		kW	4,40	6,00	7,50	9,50	12,00	13,80	16,00		
Heating	Rated input		kW	1,49	2,00	2,36	3,06	3,87	4,60	5,52		
(A7/W55)	COP			2,95	3,00	3,18	3,10	3,10	3,00	2,90		
	Capacity		kW	4,50	6,55	8,40	10,00	12,00	13,50	14,90		
Cooling (A35/W18)	Rated input		kW	0,81	1,34	1,66	2,08	3,00	3,75	4,38		
(103/11/0)	EER			5,55	4,90	5,05	4,80	4,00	3,60	3,40		
Capacity			kW	4,70	7,00	7,40	8,20	11,60	12,70	14,00		
Cooling	Capacity							4,22				
Cooling (A35/W7)	Rated input		kW	1,36	2,33	2,19	2,48		4,98	5,71		
	Rated input EER		kW	3,45	3,00	3,38	3,30	2,75	2,55	2,45		
(A35/W7)	Rated input EER SCOP (1)			3,45 4,85	3,00 4,95	3,38 5,21	3,30 5,19	2,75 4,81	2,55 4,72	2,45 4,62		
(A35/W7) Seasonal energy	Rated input EER SCOP ⁽¹⁾ Rated heat output	ciency ratio (nS)	kW	3,45 4,85 5,5	3,00 4,95 6,8	3,38 5,21 8,1	3,30 5,19 9,2	2,75 4,81 12	2,55 4,72 13,7	2,45 4,62 15,2		
(A35/W7)	Rated input EER SCOP (1)			3,45 4,85	3,00 4,95	3,38 5,21	3,30 5,19	2,75 4,81	2,55 4,72	2,45 4,62		
(A35/W7) Seasonal energy efficiency	Rated input EER SCOP ^(t) Rated heat output Seasonal energy effi Annual energy cons		kW 96	3,45 4,85 5,5 191	3,00 4,95 6,8 195	3,38 5,21 8,1 205,6	3,30 5,19 9,2 204,8	2,75 4,81 12 189,4	2,55 4,72 13,7 185,7	2,45 4,62 15,2 181,7		
(A35/W7) Seasonal energy efficiency	Rated input EER SCOP ^(t) Rated heat output Seasonal energy effi Annual energy cons	umption	kW 96	3,45 4,85 5,5 191	3,00 4,95 6,8 195	3,38 5,21 8,1 205,6 3218	3,30 5,19 9,2 204,8	2,75 4,81 12 189,4 5152	2,55 4,72 13,7 185,7	2,45 4,62 15,2 181,7		
(A35/W7) Seasonal energy efficiency LWT 35°C Seasonal energy	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output	umption ting energy efficiency class ⁽¹⁾	kW 96 kWh kW	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6	2,55 4,72 13,7 185,7 6012 A+++ 3,47 12,1	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13		
(A35/W7) Seasonal energy efficiency LWT 35°C Seasonal energy efficiency	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons ScOP® Rated heat output Seasonal space head SCOP® Rated heat output Seasonal energy effi	umption ting energy efficiency class ⁽¹⁾ ciency ratio (ŋS)	kW 96 kWh KW 96	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5	3.00 4,95 6,8 195 2845 A+++ 3.52 5,7 137,9	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1	2,55 4,72 13,7 6012 A+++ 3,47 12,1 135,6	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2		
(A35/W7) Seasonal energy efficiency LWT 35°C Seasonal energy	Rated input EER SCOP (%) Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP (%) Rated heat output Seasonal energy effi Annual energy cons Seasonal energy effi Annual energy effi Annual energy cons	umption ting energy efficiency class ⁽¹⁾ ciency ratio (ŋS) umption	kW 96 kWh kW	3.45 4,85 5,5 191 2351 A+++ 3.31 4,4 129,5 2742	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567	2.75 4.81 12 189,4 5152 A+++ 3.45 11,6 135,1 6927	2,55 4,72 13,7 185,7 6012 A+++ 3,47 12,1 135,6 7202	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896		
(A35/W7) Seasonal energy efficiency LWT 35°C Seasonal energy efficiency	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Scope Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat Scope	umption ting energy efficiency class ⁽¹⁾ ciency ratio (ŋS)	kW 96 kWh KW 96	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++	3,00 4,95 6,8 195 2,2445 A+++ 3,52 5,7 137,9 3343 A++	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 7,7 135,7 4567 A++	2.75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++	2.55 4,72 13,7 6012 A+++ 3,47 12,1 135,6 7202 A++	2,45 4,62 15,2 181,7 6884 A+++ 3,41 13 133,2 7896 A++		
(A35/W7) Seasonal energy efficiency LWT 35°C Seasonal energy efficiency	Rated input EER SCOP ⁽¹⁾ Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP ⁽⁰⁾ Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat ScOP ⁽⁰⁾ Rated heat output Seasonal space heat LWT at 7%C	umption ting energy efficiency class ⁽¹⁾ ciency ratio (ŋS) umption	kW 96 kWh KW 96	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83	3,30 5,19 9,2 2004,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67		
(A35/W7) Seasonal energy efficiency LWT 35% Seasonal energy efficiency LWT 55% SEER	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space hea SCOP® Rated heat output Seasonal space hea SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space hea LWT at 7°C LWT at 8°C	umption ting energy efficiency class ⁽¹⁾ ciency ratio (r;S) umption ting energy efficiency class ⁽¹⁾	kW 96 kWh kW 96 kW	3,45 4,85 5,5 191 2351 4+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21	3.38 5.21 8.1 205.6 3218 A+++ 3.36 6.6 131.6 44054 A++ 5.83 8.95	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,58 8,78	2.75 4.81 12 819,4 5152 A+++ 3.45 11,6 135,1 6927 A++ 4,86 7,04	2,55 4,72 13,7 18,57 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71		
(A35/W7) Seasonal energy efficiency LWT 35% Seasonal energy efficiency LWT 55% SEER	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space hea SCOP® Rated heat output Seasonal space hea SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space hea LWT at 7°C LWT at 8°C	umption ting energy efficiency class ⁽¹⁾ ciency ratio (ŋS) umption	kW 96 kWh KW 96	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34	3.38 5.21 8.1 205,6 3218 A+++ 3.36 6.6 131,6 4054 A++ 5,83 8,95 820	3,30 5,19 9,2 2004,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98	2.75 4.81 12 189,4 5152 A+++ 3.45 11,6 135,1 6927 A++ 4.86 7,04 816	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67		
(A35/W7) Seasonal energy efficiency LWT 35°C Seasonal energy efficiency LWT 55°C SEER Minimum rated cur Compressor	Rated input EER SCOP (*) Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP (*) Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat LWT at 7%C LWT at 8%C	umption ting energy efficiency class ⁽¹⁾ ciency ratio (r;S) umption ting energy efficiency class ⁽¹⁾	kW 96 kWh kW 96 kW	3,45 4,85 5,5 191 2351 4+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 8,20	2.75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 or DC	2,55 4,72 13,7 18,57 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71		
(A35/W7) Seasonal energy efficiency LWT 35°C Seasonal energy efficiency LWT 55°C SEER Minimum rated cur	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space hea SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space hea LWT at 7°C LWT at 8°C Type Quantity	umption ting energy efficiency class ⁽¹⁾ ciency ratio (r;S) umption ting energy efficiency class ⁽¹⁾	kW 96 kWh kW 96 kW	3,45 4,85 5,5 191 2351 4+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,58 8,78 8,78 8,20 rotary Inverter compresso	2.75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 or DC	2,55 4,72 13,7 18,57 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71		
(A35/W7) Seasonal energy efficiency LWT 35%C Seeasonal energy efficiency LWT 55%C SEER Minimum rated cur Compressor Fan	Rated input EER SCOP ⁽¹⁾ Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP ⁽¹⁾ Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat LWT at 7% LWT at 8% rrent of the overcurrent Type	umption ting energy efficiency class ⁽¹⁾ ciency ratio (r;S) umption ting energy efficiency class ⁽¹⁾	kW 96 kWh kW 96 kW	3,45 4,85 5,5 191 2351 4,+++ 3,31 4,4 129,5 2742 4,4 4,99 7,77 B16 1 R32/675	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32/675	3.38 5.21 8.1 205,6 3218 A+++ 3.36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32 / 675	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 B20 rotary inverter compresso Brushless DC motor / BLDC 1 R32 / 675	2.75 4.81 12 189,4 5152 4+++ 3.45 11,6 135,1 6927 A++ 4.86 7.04 816 r DC 5 1 R32 / 675	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675		
(A35/W7) Seasonal energy efficiency LWT 35PC Seasonal energy efficiency LWT 55PC SEER Minimum rated cur Compressor	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space hea SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space hea LWT at 7°C LWT at 8°C Type Quantity	umption ting energy efficiency class ⁽¹⁾ ciency ratio (r;S) umption ting energy efficiency class ⁽¹⁾	kW 96 kWh kWh kWh A kWh	3,45 4,85 5,5 191 2351 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32(675 1,5	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32/675 1,5	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R22/675 1,65	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 8,78 8,78 8,78 8,20 rotary inverter compresso Brushless DC motor / BLDC 1 R32 / 675 1,65	2.75 4.81 12 189,4 5152 A+++ 3.45 11,6 135,1 6927 A++ 4.86 7,04 B16 or DC 5 1 R32/675 1,84	2,55 4,72 13,7 185,7 6012 A+++ 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 1332 7896 A++ 4,67 6,71 816 816 1 R32/675 1,84		
(A35/W7) Seasonal energy efficiency LWT 35%C Seeasonal energy efficiency LWT 55%C SEER Minimum rated cur Compressor Fan	Rated input EER SCOP ⁽¹⁾ Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP ⁽⁰⁾ Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat LWT at 7% LWT at 8% rrent of the overcurrent Type Quantity Type/GWP Charged (<15m)	umption ting energy efficiency class ⁽¹⁾ ciency ratio (r;S) umption ting energy efficiency class ⁽¹⁾	kW 96 kWh kWh 96 kWh	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32 / 675 1,5 1,5 1,02	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32 / 675 1,5 1,5 1,02	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32/675 1,65 1,65 1,11	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 8,78 820 rrotary inverter compresses Brushless DC motor / BLDC 1 R32 / 675 1,65 1,11	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 r DC T T R32/675 1,84 1,24	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84 1,24	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24		
(A35/W7) Seasonal energy efficiency LWT 35°C Seasonal energy efficiency LWT 55°C SEER Minimum rated cur Compressor Fan	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat LWT at 7% LWT at 8% Type Quantity Type/GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ ciency ratio (r ₅) umption ing energy efficiency class ⁽¹⁾ circuit breaker with breaker type	kW 96 kWh kWh kWh A A TCO_seq mm	3.45 4.85 5.5 191 2351 A+++ 3.31 4.4 129,5 2742 A++ 4.99 7.77 B16 1 R32/675 1,5 1,02 \$\Phi(14^) (\D15,9(5/8))	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32/675 1,5 1,02 (47) / (4)5,9 (5%)	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32 / 675 1,65 1,11 R32 / 675 1,15 (787) / (4)5,9 (5/8)	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 B20 rotary inverter compresses Brushless DC motor / BLDO 1 R32 / 675 1,65 1,11 (\$\$95(2)(8))	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 816 r DC r R32 / 675 1,84 1,24 9,25 (3/8) / (\$5/8)	2,55 4,72 13,7 6012 A+++ 3,47 12,1 13,56 7202 A++ 4,83 6,85 B16 1 R32 / 675 1,84 1,24 9,52 (3/8) / (\$/8)	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 0,59 (5/8) / 0(5/9)		
(A35/W7) Seasonal energy efficiency LWT 35% SEER Minimum rated cur Compressor Fan Refrigerant	Rated input EER SCOP ^{en)} Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP ^{en)} Rated heat output Seasonal energy effi Annual energy effi Annual energy effi Annual energy effi Seasonal space heat LWT at RPC LWT at RPC Type Type GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (ŋ\$) umption ing energy efficiency class ⁽¹⁾ circuit breaker with breaker type in length	kW 96 kWh kWh 96 kWh A A kg TCO,eq mm	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32 / 675 1,5 1,5 1,5 1,02 \$\Phi(14'') / \Phi(5)(74'') 2 2	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32 / 675 1,5 1,02 4,633 (1/4°) / 04159 (56°) 2	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32 / 675 1,65 1,11 Ф9,52 (3/8°) / Ф15/9 (6/8°) 2	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 8,78 8,20 rotary inverter compresso Brushless DC motor / BLDC 1 R32 / 675 1,65 1,11 Φ,952 (3/8°) 2	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 r DC T R32 / 675 1,84 1,24 9,52 (3/8°) / (Φ15,9 (5/8°) 2	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32 / 675 1,84 1,24 9,52 (38) 9 (45) 5 (68) 2	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 P352 (3/8) / 915,9 (5/8) 2		
(A35/W7) Seasonal energy efficiency LWT 35%C Seasonal energy efficiency LWT 55%C SEER Minimum rated cur Compressor Fan	Rated input EER SCOP ⁽¹⁾ Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP ⁽²⁾ Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat LWT at 7°C LWT at 8°C Type Quantity Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (ŋS) umption ing energy efficiency class ⁽¹⁾ circuit breaker with breaker type circuit breaker with breaker type n length	kW 96 kWh kWh kWh A A kWh r CO_eq mm m m	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32/675 1,5 1,02 Ф6,35(1/47) / 015,9(5/8) 2 30	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32/675 1,5 1,02 \$\$(147) /\$\$(57) 7 2 30	3.38 5.21 8.1 205.6 3218 A+++ 3.36 6.6 131.6 4054 A++ 5.83 8.95 B20 Twir 1 R32 / 675 1.65 1.11 09.52 (387) / 0159 (587)	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 8,78 8,78 8,00 rotary inverter compresso 8rushless DC motor / BLDC 1 R32 / 675 1,65 1,11 \$\Phi\$,5 (5/8) / 415,5 (5/8) 2 30	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 or DC 5 1 R32 / 675 1,84 1,24 09,52 (3/8) / (4)5,9 (5/8) 2 30	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84 1,24 0,952 (3/87) / 4(15,9 (5/87) 2 30	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,84 1,84 1,84 1,84 0,952 (387) / 015,9 (587) 2 30		
(A35W7) Seasonal energy efficiency LWT 35°C Seasonal energy efficiency LWT 55°C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections	Rated input EER SCOP® Rated heat output Seasonal energy offi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal space heat SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat LWT at 7%C LWT at 8%C Type Quantity Type/GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ ciency ratio (r;S) umption circuit breaker with breaker type circuit breaker with breaker type n length n length of refrigerant for over 15 linear meters	kW 96 kWh 400 kWh 400 kWh 400 kWh 700_eq mm m m g/m	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32/675 1,5 1,02 Φ6,35(1/4") / Φ15,9(5/8) 2 30 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R322,675 1,5 1,02 Ф6,35(1/4°) / Ф15,9(5/8°) 2 30 20	3.38 5.21 8.1 205.6 3218 A+++ 3.36 6.6 131.6 4054 A++ 5.83 8.95 B20 Twir 1 R32 / 675 1.65 1.11 Ф9.52 (J/8°) / Ф15.9 (J/8°) 2 30 38	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 820 rotary inverter compresso notary inverter compresso notary inverter compresso 1 R322 (675 1,65 1,11 \$\mathcal{OP}\$52 (3/8') / \$\mathcal{OP}\$52 (3/8') / \$\mathcal{OP}\$52 (3/8') / \$\mathcal{OP}\$52 (3/8') / \$\mathcal{OP}\$52 (3/8') 2 30 38	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 or DC C C C 1 R32/675 1,84 1,24 0,95(2)(38) / (\$15,95(8)) 2 30 38	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R322/675 1,84 1,24 0,952(3/87) /,415.9(5/8) 2 30 38	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 Ф9,52 (3/87) / 015,9 (5/87) 2 30 38		
(A35/W7) Seasonal energy efficiency LWT 35%C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal space heat SCOP® Rated heat output Seasonal space heat LWT at 7%C LWT at 8%C Type Quantity Type/GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length n length frefrigerant for over 15 linear meters the indoor unit	kW 96 kWh kWh kWh kWh kWh KWh KWh KWh KWh g/s TCO_5eq mm m m g/m m	3,45 4,85 5,5 191 2351 4,4 129,5 2742 A++ 4,99 7,77 B16 1 832,675 1,5 1,02 1,5 1,02 1,5 1,25 1,25 2,675 2,55 2,742 30 20 20 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32/675 1,5 1,5 1,5 1,5 1,02 4,6,35(1/4 ⁴) / (\$15,9(5/8 ²)) 20 20 20	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 1131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32 / 675 1,65 1,11 Φ,9,52 (3/8°) / Φ(5) (5/8°) 2 38 20	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 8,78 8,78 8,20 rotary inverter compresso Brushless DC motor / BLDC 1 R32/ 675 1,65 1,11 49,52 (3/8°) / (4) 55 (5/8°) 2 38 20	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 816 r DC 1 R32 / 675 1,84 1,24 0,52 (3/8') / (\$15,9 (58') 2 38 20	2,55 4,72 13,7 18,5,7 6012 A+++ 12,1 13,5,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84 1,24 9,52(3/87) / (\$15)(5/87) 2 30 38 20	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 1332 7896 A++ 4,67 6,71 816 816 816 816 817 812/675 1,84 1,24 9,55(3/87) / 015,9(5/8) 2 30 38 20		
(A35W7) Seasonal energy efficiency LWT 35%C Seasonal energy efficiency LWT 55%C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height difference	Rated input EER SCOP ^{en)} Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP ^{en)} Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat LWT at 7°C LWT at 8°C rrent of the overcurrent Type Quantity Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length n length frefrigerant for over 15 linear meters the indoor unit	kW 96 kWh 400 kWh 400 kWh 400 kWh 700_eq mm m m g/m	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32/675 1,5 1,02 Φ6,35(1/4") / Φ15,9(5/8) 2 30 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R322,675 1,5 1,02 Ф6,35(1/4°) / Ф15,9(5/8°) 2 30 20	3.38 5.21 8.1 205.6 3218 A+++ 3.36 6.6 131.6 4054 A++ 5.83 8.95 B20 Twir 1 R32 / 675 1.65 1.11 Ф9.52 (J/8°) / Ф15.9 (J/8°) 2 30 38	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 820 rotary inverter compresso notary inverter compresso 1 R322 (675 1,65 1,11 \$\overline{0}\$-52 (3/8') / \$\overline{0}\$-52 (3/8') 2 30 38	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 or DC C C C 1 R32/675 1,84 1,24 0,95(2)(38) / (\$15,95(8)) 2 30 38	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R322/675 1,84 1,24 0,952(3/87) /,415.9(5/8) 2 30 38	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 Ф9,52 (3/87) / 015,9 (5/87) 2 30 38		
(A35W7) Seasonal energy efficiency LWT 39C Seasonal energy efficiency LWT 55C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs ar	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal space heat SCOP® Rated heat output Seasonal space heat LWT at 7%C LWT at 8%C Type Quantity Type/GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length n length frefrigerant for over 15 linear meters the indoor unit	kW 96 kWh kWh 6 kWh A A CO_seq TCO_seq mm m g/m m	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32 / 675 1,5 1,5 1,5 1,5 1,02 \$\Phi(14^{2})\$ /\phi(5)(5(8^{2})\$) 2 30 20 20 20 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32 / 675 1,5 1,5 1,02 Фб.35 (1/4°) / Ф15,9 (5/8°) 2 30 20 20 20 20	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32 / 675 1,65 1,11 @9,52 (3/8') / 015,9 (5/8') 2 30 38 20 20	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,58 8,78 8,78 8,78 8,78 8,20 r rotary inverter compresses Brushless DC motor / BLDC 1 R32 / 675 1,65 1,11 \$ 0 \$,52 (3/8') / \P1,9 (5/8'') 2 30 38 20 20 20 20	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 r DC 1 R32/675 1,84 1,24 0,9,52(2)/87 / 0,184 1,24 0,9,52(2)/87 2 30 38 20 20 20	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84 1,24 (9,52(287) / 0,15,9(587) 2 30 38 20 20 20	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 Ф9,52 (/87) / 049,52		
(A35W7) Seasonal energy efficiency LWT 39C Seasonal energy efficiency LWT 55C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs ar	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal space heat Scop® Rated heat output Seasonal space heat LWT at 7%C LWT at 8%C Type Quantity Charged (+15m) Liquid / Gas Minimum installation Maximum installation Additional amount to coludoor unit below Outdoor unit below Outdoor unit below	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length n length frefrigerant for over 15 linear meters the indoor unit	kW % kWh kWh kWh kWh kWh kWh kWh m rCo_eq mm m m m m m m m m m m m m	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32 / 675 1,5 1,5 1,5 1,5 1,02 \$\Phi(14^{2})\$ /\phi(5)(5(8^{2})\$) 2 30 20 20 20 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32 / 675 1,5 1,5 1,02 Фб.35 (1/4°) / Ф15,9 (5/8°) 2 30 20 20 20 20	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32 / 675 1,65 1,11 @9,52 (3/8') / 015,9 (5/8') 2 30 38 20 20	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 8,78 8,78 820 rotary inverter compresso Rrushless DC motor / BLDC 1 R22 / 675 1,65 1,11 0,952 (3/8) / 015,9 (5/8) 2 30 38 20 20 3 × 4	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 r DC 1 R32/675 1,84 1,24 0,9,52(2)/87 / 0,184 1,24 0,9,52(2)/87 2 30 38 20 20 20	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84 1,24 (9,52(287) / 0,15,9(587) 2 30 38 20 20 20	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 Ф9,52 (/87) / 049,52		
(A35W7) Seasonal energy efficiency LWT 35°C Seasonal energy efficiency LWT 55°C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs ar Control cables: indo	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP®® Rated heat output Seasonal space heat LWT at %C Type Type Quantity Type/GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length n length frefrigerant for over 15 linear meters the indoor unit	kW 96 kWh 5 kWh 96 kWh 7 KWh 7 KWh 7 KWh 96 kMh 96 k Mh 96 k Mh 86 k Mh 80 k Mh 80 k Mh 80 k Mh 80 k Mh 80 k Mh 80 k Mh 80 k Mh 80 k Mh 80 k Mh 80 k Mh 80 k Mh 80 kh	3.45 4.85 5.5 191 2351 A+++ 3.31 4.4 129,5 2742 A++ 4.99 7,77 B16 1 R32/675 1,5 1,5 1,02 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 8,21 B16 1 R322 675 1,5 1,5 1,02 Ф6,35 (1/4°) / Ф15,9 (5/8°) 2 30 20 20 3 × 2,5	3.38 3.38 5.21 8.1 205.6 3218 A+++ 3.36 6.6 131.6 4054 A++ 5.83 8.95 B20 Twir 1 R327.675 1.65 1.11 Ф9.52.(3/8°) / Ф15.9 (5/8°) 2 30 38 20 20 3 × 4	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 B20 rotary inverter compresso notary inverter compresso notary inverter compresso 1 R322,675 1,65 1,11 Ø9,52 (3/8°) / Ø15,9 (5/8°) 2 30 38 20 20 3 × 4 2 × 0,75 (shielded cable)	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 or DC C C C 1 R32/675 1,84 1,24 0,95(2)(38) / (\$15,95(8)) 2 30 38 20 20 5 × 2,5	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R322,675 1,84 1,24 0,952 (3/8') /,015,9 (5/8') 2 30 38 20 20 5 × 2,5	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 Ф9,52 (3/87) / 015,9 (5/87) 2 30 38 20 20 5 × 2,5		
(A35W7) Seasonal energy efficiency LWT 35C Seasonal energy efficiency LWT 55C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs ar Control cables: indt Bracket spacing Sound pressure lev Sound pressure lev	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal space heat SCOP® Rated heat output Seasonal space heat LWT at %C LWT at %C Type Quantity Type/GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length n length frefrigerant for over 15 linear meters the indoor unit	kW % kWh kWh % kWh % kWh % kWh % % kWh % % % % % % % % % % % % % % % % % % %	3,45 4,85 5,5 191 2351 4,++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32/675 1,5 1,02 0,6,35(1,44) / 015,9(5/8) 2 30 20 20 20 3×2,5 663×375 44 56	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R22/675 1,5 1,02 Ф6,35(1/47) /Ф15,9(5/87) 2 30 20 20 3×2,5 	3.38 3.38 5.21 8.1 205.6 3218 A+++ 3.36 6.6 131.6 4054 A++ 5.83 8.95 B20 Twir 1 R32 / 675 1.11 09.52 (387) / 015.9 (587) / 015.9 (587) 2 30 38 20 20 3 × 4 656 × 456 46 59	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 8,78 8,78 8,0 1 R2/ 675 1,65 1,65 1,65 1,11 Φ9,52 (3/8) / Φ(5/8) / Φ(5/8) 2 2 30 38 20 20 20 3 × 4 2 × 0,75 (shielded cable) 656 × 456 49 60	2.75 4.81 12 189,4 5152 A+++ 3.45 11,6 135,1 6927 A++ 4.86 7,04 B16 x DC 5 1 R32 / 675 1,84 1,24 Ф9,52 (3/8°) / Ф15,9 (5/8°) 2 30 38 20 20 5 × 2,5 656 × 456 50 64	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84 1,24 09,52 (3/87) / 40(55)(5/87) 2 30 38 20 20 5 × 2,5	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 Φ 9,52 (389) / ϕ 15,9 (587) 2 30 38 20 20 20 5 × 2,5 666 × 456 55 68		
(A35/W7) Seasonal energy efficiency LWT 35%C Seasonal energy efficiency LWT 55%C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs ar Control cables: indd Bracket spacing Sound power level Net dimensions	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal space heat SCOP® Rated heat output Seasonal space heat LWT at 7% LWT at 7% CWT at 7% Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length n length frefrigerant for over 15 linear meters the indoor unit	kW 96 kWh 5 kWh 96 kWh 7 KWh 7 6 r 7 CO_eq mm 7 CO_eq mm g/m m g/m m m g/m m m g/m m m m m m	3.45 4.85 5.5 191 2351 A+++ 3.31 4.4 129,5 2742 A++ 4.99 7,77 B16 1 R32/675 1,5 1,5 1,5 1,02 $\Phi 6,35(1/4^{2})$ / $\Phi 1,59(5^{2})$ 2 2 30 20 20 20 20 20 20 20 20 20 20 20 20 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 8,21 B16 1 R322 675 1,5 1,5 1,02 Ф6,35 (1/4°) / Ф15,9 (5/8°) 2 20 20 20 20 20 20 20 20 20	3.38 3.38 5.21 8.1 205.6 3218 A+++ 3.36 6.6 131.6 4054 A++ 5.83 8.95 B20 Twin 1 R32 / 675 1.65 1.11 Φ9.52 (3/8°) / Φ15.9 (5/8°) 2 30 38 20 20 3 × 4 656 × 456 46 59 1118 × 523 × 865	3,30 3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 B20 rotary inverter compressc notary inverter compressc notary inverter compressc 1 R32/ 675 1,65 1,11 Ø9,52 (3/8°) / Ф15,9 (5/8°) 2 30 38 20 20 3×4 2×0,75 (shielded cable) 656 × 456 49 60 1118 × 523 × 865	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6927 A++ 4,86 7,04 B16 vr DC C 1 R32 / 675 1,84 1,24 0,95 2 (3/8°) / (\$15,95/8°) 2 2 30 30 38 20 20 5 \$ × 2,5 656 \$ × 456 50 64 1118 \$ \$23 \$ 865	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R322,675 1,84 124 09,52(3/87) /,415,9(5/87) 2 30 38 20 20 5 × 2,5 51 65 51 65 51 1118 × 523 × 865	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,84 1,84 1,84 1,84 1,84 1,24 Ф9,52 (3/8) 7 (958) 2 30 38 20 20 5 × 2,5 5 668 × 456 68 1118 × 523 × 865		
(A35/W7) Seasonal energy efficiency LWT 35%C Seasonal energy efficiency LWT 35%C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height differece Minimal wire pcs ar Control cables: indd Bracket spacing Sound pressure lev Sound press	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal space heat LWT at P Type Quantity Type GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length in length frefrigerant for over 15 linear meters the indoor unit	kW % kWh kWh % kWh % KWh % % kWh % % kWh % % % % % % % % % % % % % % % % % % %	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32/675 1,5 1,02 4,5 (1/4') / 015,6 (%2) 20 20 20 20 20 20 20 20 20 20 20 20 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32 / 675 1,5 1,02 Ф6,35 (1/4") / Ф159 (5/8") 2 20 20 20 20 20 20 20 20 20	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32 / 675 1,65 1,11 P35,2 (3/8°) / 015,9 (6/8°) 2 30 38 20 20 38 20 20 3×4 Fig. 1 Constant of the second o	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 B20 rotary inverter compresses Brushless DC motor / BLDC 1 R32 / 675 1,65 1,11 Ф9,52 (3/8') / Ф159 (5/8') 2 30 38 20 20 3 × 4 2 × 0,75 (shielded cable) 656 × 456 49 60 1118 × 521 × 865 1180 × 560 × 890	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6527 A++ 4,86 7,04 816 r DC 7 1 R32 / 675 1,84 1,24 0,952 (3/87) / 0,459 (5/87) 2 30 38 20 20 5 × 2,5 656 × 456 50 64 1118 × 523 × 865 1180 × 560 × 890	2,55 4,72 13,7 185,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84 1,24 95,2(387) 2 2 30 38 20 20 5×2,5 51 656:456 51 118×523×865 118×523×865	2,45 4,62 15,2 1181,7 6804 A+++ 3,41 13 133,2 7996 A++ 4,67 6,71 B16 7 812 (757 1,84 1,24 9,52 (3/87) 7,015,9(58) 2 30 38 20 5 × 2,5 5 656 × 456 55 55 68 1118 × 523 × 885 1180 × 560 × 890		
(A35/W7) Seasonal energy efficiency LWT 35%C Seasonal energy efficiency LWT 55%C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs ar Control cables: indd Bracket spacing Sound power level Net dimensions	Rated input EER SCOP ^{en} Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP ^{en} Rated heat output Seasonal space heat Seasonal space heat LWT at 7PC LWT at 7PC LWT at 8PC rrent of the overcurrent Type Quantity Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length in length frefrigerant for over 15 linear meters the indoor unit	kW % kWh kWh kWh kWh A A CO_seq TCO_seq mm m g/m m m g/m m m g/m m kg	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32/675 1,5 1,5 1,5 1,02 0 6635(1/4°) / \015,9(5/8°) 2 2 30 20 20 20 20 20 20 20 20 20 20 20 20 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32 / 675 1,5 1,02 Ф6,35 (1/4°) / Ф15,9 (5/8°) 2 30 20 20 20 20 20 20 20 20 20 2	3.38 3.38 5.21 8.1 205.6 3218 A+++ 3.36 6.6 131.6 4054 A++ 5.83 8.95 B20 Twir 1 R32 / 675 1.65 1.11 @9.52 (3/8) / 015,9 (5/8) 2 30 38 20 20 30 3×4 656 × 456 46 59 1180 × 560 × 890 75 / 89	3,30 3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,58 8,78 8	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6527 A++ 4,86 7,04 B16 r DC 1 R32/675 1,84 1,24 09,52(3/87) / Ф15,9(58) 2 30 38 20 20 5 × 2,5 656 × 456 50 64 1118 × 523 × 865 1120 / 125,5	2,55 4,72 13,7 18,5,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32/675 1,84 1,24 0,952 (3/8) / 0,15,9 (5/8) 2 30 38 20 20 5 × 2,5 (656×456 51 65 1180 × 560 × 890 112/125,5	2,45 4,62 15,2 181,7 6804 A+++ 3,41 13 133,2 7896 A++ 4,67 6,71 B16 1 R32 / 675 1,84 1,24 09,52 (787) / 015,9 (587) 2 2 30 38 20 20 5 × 2,5 656 × 456 55 68 1118 × 523 × 865 1118 × 523 × 865		
(A35/W7) Seasonal energy efficiency LWT 35%C Seasonal energy efficiency LWT 55%C SEER Minimum rated cur Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs ar Control cables: indd Bracket spacing Sound pressure lev Sound pres	Rated input EER SCOP® Rated heat output Seasonal energy effi Annual energy cons Seasonal space heat SCOP® Rated heat output Seasonal space heat LWT at P Type Quantity Type GWP Charged (<15m)	umption ing energy efficiency class ⁽¹⁾ clency ratio (r ₅) umption circuit preaker with breaker type circuit breaker with breaker type n length in length frefrigerant for over 15 linear meters the indoor unit	kW % kWh kWh % kWh % KWh % % kWh % % kWh % % % % % % % % % % % % % % % % % % %	3,45 4,85 5,5 191 2351 A+++ 3,31 4,4 129,5 2742 A++ 4,99 7,77 B16 1 R32/675 1,5 1,02 4,5 (1/4') / 015,6 (%2) 20 20 20 20 20 20 20 20 20 20 20 20 20	3,00 4,95 6,8 195 2845 A+++ 3,52 5,7 137,9 3343 A++ 5,34 8,21 B16 1 R32 / 675 1,5 1,02 Ф6,35 (1/4") / Ф159 (5/8") 2 20 20 20 20 20 20 20 20 20	3,38 5,21 8,1 205,6 3218 A+++ 3,36 6,6 131,6 4054 A++ 5,83 8,95 B20 Twir 1 R32 / 675 1,65 1,11 P35,2 (3/8°) / 015,9 (6/8°) 2 30 38 20 20 38 20 20 3×4 Fig. 1 Constant of the second o	3,30 5,19 9,2 204,8 3644 A+++ 3,49 7,7 135,7 4567 A++ 5,98 8,78 B20 rotary inverter compresses Brushless DC motor / BLDC 1 R32 / 675 1,65 1,11 Ф9,52 (3/8') / Ф159 (5/8') 2 30 38 20 20 3 × 4 2 × 0,75 (shielded cable) 656 × 456 49 60 1118 × 521 × 865 1180 × 560 × 890	2,75 4,81 12 189,4 5152 A+++ 3,45 11,6 135,1 6527 A++ 4,86 7,04 816 r DC 7 1 R32 / 675 1,84 1,24 0,952 (3/87) / 0,459 (5/87) 2 30 38 20 20 5 × 2,5 656 × 456 50 64 1118 × 523 × 865 1180 × 560 × 890	2,55 4,72 13,7 185,7 6012 A+++ 3,47 12,1 135,6 7202 A++ 4,83 6,85 B16 1 R32 / 675 1,84 1,24 9,52 (3/8) 2 2 30 38 20 20 5 × 2,5 51 65 65 1118 × 522 × 865 1180 × 500 × 890	2,45 4,62 15,2 1181,7 6804 A+++ 3,41 13 133,2 7996 A++ 4,67 6,71 B16 7 812 (757 1,84 1,24 9,52 (3/87) 7,015,9(58) 2 30 38 20 5 × 2,5 5 656 × 456 55 55 68 1118 × 523 × 885 1180 × 560 × 890		

⁽¹⁾ Applies to systems with outdoor unit model AQS40X10 and AQS60X10. (2) Applies to systems with outdoor unit models AQS10X10. and AQS10X10. (3) Applies to systems with outdoor unit model AQS120X10. (4) Applies to systems with outdoor unit models AQS140X10 and AQS160X10. (3) Applies to systems with outdoor unit model AQS120X10. (4) Applies to systems with outdoor unit models AQS140X10 and AQS160X10. Notes: DHW – Domestic hort water, LWT – Leaving water temperature The sound pressure levels in same user of the unit and (1+H)2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W55 ΔT=8; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Lws 2014/ C 20702: 2014. The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than Idm: 30mA *The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.



Aquami Series **Monoblock**

Rotenso Aquami Monoblock is a heat pump in which the refrigeration module and the hydronic module are contained in a single, compact unit housing designed for outdoor installation to make the installation works easier and faster.

Rotenso Aquami Monoblock pump is the best solution for building owners who either have no space or do not want to install additional hydronic module inside the building. Rotenso Aquami Monoblock heat pump features the highest energy efficiency class A+++.

COP coefficient, which is a ratio of useful heating power to the consumed electric energy, is **5.15*** in monoblock pumps, which means that the amount of heating energy that the Rotenso Aquami Monoblock heat pump can produce is more than five times higher than the amount of consumed electric energy.

Heat pump double door housing is designed to provide an easy access to all its components, while operating parameters can be quickly modified and monitored in real time from the user interface. Rotenso Aquami Monoblock heat pump is equipped with an anti-freeze system.

* Maximum COP for AQM80X1



AQUAMI MONO BLOCK







Operating range down to -25°C

Controller

equipped with

a temperature sensor

Supply water temperature of 65°C

Smart Grid functionality



Integrated Wi-Fi

module



Control via mobile app







Controller equipped with a temperature sensor

If the sensor detects a difference between the set temperature and the actual temperature in the room, the heat pump will automatically operate to reach the desired temperature inside the building.



Supply water temperature of max. 65°C

If the heat pump is used to heat spaces where radiators are installed, temperature of the supply water in the system must be higher. Rotenso Aquami heat pump can heat water up to 65°C.



The Rotenso Aquami Monoblock pump can be controlled both by the wired controller and the COMFORT HOME mobile app, whether you are staying at home or not.



Smart Grid functionality

The heat pump controller is designed to work with the "Smart Grid". With this feature, the pump automatically turns on to store surplus energy from the photovoltaic (PV) system to make the most of the cheaper electricity tariff.



Operating range down to -25°C

The pump is prepared to operate efficiently even at extreme outdoor temperatures down to -25°C. During the cold winter, it guarantees that supply water for central heating and domestic hot water is heated sufficiently.

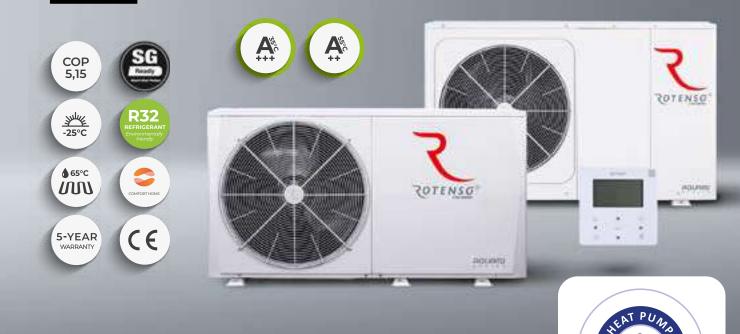


Control via mobile app

You can use your tablet or smartphone to control the Rotenso Aquami Monoblock unit no matter where you are.

Aquami Monoblock

4-16 kW



Device features

tl₀

Efficient

heating

Smart Grid

functionality

MON

Configurable daily

schedules





Environmentally friendly refrigerant , R32



Energy

meter



Wired controller Wi-Fi module



2 heating control zones

1. Refers to unit AQM80X1



Dedicated application



Disinfection



A

+++

Energy efficiency

class at 35°C

A+++

Twin rotary

compressor

.....

Configurable

weekly schedules

+

Energy efficiency class at 55°C A++



Integrated electric heater



Vacation mode



DHW circulation pump operation schedules

COP 5,15 Maximum

COP 5,15⁽¹⁾

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EN

Menu

in English



Operating range down to -25°C

SHILE



Compressor crankcase heater

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menu



Easy installation



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Weather operating modes (climate curve)

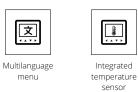


Maximum leaving water temperature

of 60°C (in DHW mode)



0 0 0 Prepared to create a cascade system





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EYMA

heatpump.keymat

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Technical specification

Outdoor unit mod	del			AQM40X1	AQM60X1	AQM80X1	AQM100X1	AQM120X3	AQM140X3	AQM160X3		
EAN product code				5905567602177	5905567602184	5905567602191	5905567602207	5905567602214	5905567602221	5905567602238		
Power supply			V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f		
	Capacity		kW	4,20	6,35	8,40	10,00	12,10	14,50	15,90		
Heating	Rated input		kW	0,82	1,28	1,63	2,02	2,44	3,15	3,53		
(A7/W35)	COP			5,10	4,95	5,15	4,95	4,95	4,60	4,50		
	Capacity		kW	4,30	6,30	8,10	10,00	12,30	14,10	16,00		
Heating	Rated input		kW	1,13	1,70	2,10	2,67	3,32	3,92	4,57		
(A7/W45)	COP			3,80	3,70	3,85	3,75	3,70	3,60	3,50		
	Capacity		kW	4,40	6,00	7,50	9,50	11,90	13,80	16,00		
Heating	Rated input		kW	1,49	2,03	2,36	3,06	3,90	4,68	5,61		
(A7/W55)	COP			2,95	2,95	3,18	3,10	3,05	2,95	2,85		
	Capacity		kW	4,50	6,50	8,30	9,90	12,00	13,50	14,90		
Cooling	Rated input		kW	0,82	1,35	1,64	2,18	3,04	3,75	4,38		
(A35/W18)	EER			5,50	4,80	5,05	4,55	3,95	3,60	3,40		
			LAAT									
Cooling	Capacity		kW	4,70	7,00	7,45	8,20	11,50	12,40	14,00		
(A35/W7)	Rated input		kW	1,36	2,33	2,22	2,52	4,18	4,96	5,60		
	EER			3,45	3,00	3,35	3,25	2,75	2,50	2,50		
	SCOP ⁽¹⁾			4,85	4,95	5,21	5,19	4,81	4,72	4,62		
Seasonal energy	Rated heat output		kW	5,5	6,8	8,1	9,2	12	13,7	15,2		
efficiency LWT 35°C	Seasonal energy efficient		96	191	195	205,6	204,8	189,4	185,7	181,7		
LIVE 35°C	Annual energy consum		kWh	2351	2845	3218	3644	5153	6013	6805		
		g energy efficiency class ⁽¹⁾		A+++	A+++	A+++	A+++	A+++	A+++	A+++		
	SCOP ⁽¹⁾			3,31	3,52	3,36	3,49	3,45	3,47	3,41		
Seasonal energy	Rated heat output		kW	4,40	5,70	6,60	7,70	11,60	12,10	13,00		
efficiency	Seasonal energy efficient	ncy ratio (ηS)	96	129,5	137,9	131,6	135,7	135,1	135,6	133,3		
LWT at 55°C	Annual energy consum	ption	kWh	2742	3343	4054	4567	6927	7202	7896		
	Seasonal space heating	g energy efficiency class (1)		A++	A++	A++	A++	A++	A++	A++		
SEER	LWT at 7ºC			4,98	5,34	5,83	5,98	4,86	4,83	4,67		
JEER	LWT at 18ºC			7,76	8,21	8,95	8,78	7,04	6,85	6,71		
Minimum rated curr	rent of the overcurrent c	ircuit breaker with breaker type	A	B25	B32	B32	B32	B25	B25	B25		
Compressor		Туре				Twir	n rotary inverter compresso	or DC				
_		Туре					Brushless DC motor / BLD	c				
Fan		Quantity		1 1 1 1 1 1 1 1 1								
		Type / GWP		R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675		
Refrigerant		kg		1,4	1,4	1,4	1,4	1,75	1,75	1,75		
		Charged (<15m)	TCO,eq	0,95	0,95	0,95	0,95	1,18	1,18	1,18		
Minimal wire pcs an	nd dimension of cords*		pcs × mm ²	3 x 4	3×6	3×6	3×6	5×4	5×4	5 x 4		
Bracket spacing		W1 × W2 × D	mm	638 x 379 x 401	638 x 379 x 401	656 x 363 x 488						
Sound pressure leve	/el		dB(A)	45	47,5	48,5	50,5	53,0	53,5	57,5		
Sound power level			0.000	55	58	59	60	65	65	68		
Net dimensions		W×D×H	mm	1295 × 429 × 718	1295 × 429 × 718	1385 × 526 × 865	1385 × 526 × 865	1385 × 526 × 865	1385 × 526 × 865	1385 × 526 × 865		
Gross dimensions		W×D×H W×D×H		1375 × 475 × 885	1375 × 475 × 885	1465 × 560 × 1035	1465 × 560 × 1035	1465 × 560 × 1035	1465 × 560 × 1035	1465 × 560 × 1035		
		WADAN	mm					149/177				
Net weight / Gross v			kg	91/112	91/112	110/137	110/137		149/177	149/177		
Operating	Cooling		°C	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43	-5~43		
outdoor temperature	Heating		07	-25~35	-25~35	-25~35	-25~35	-25-35	-25-35	-25~35		
	DHW		۰C	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43	-25~43		
Operation modes					-	-	Heating and cooling	-	-	-		
Leaving water	Space cooling		°C	5~25	5~25	5~25	5~25	5~25	5~25	5~25		
temperature	Space heating		°C	25~65	25~65	25~65	25~65	25~65	25~65	25~65		
	DHW (tank)			30~60	30~60	30~60	30~60	30~60	30~60	30~60		
	Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f		
Electric heater	Number of heating sta	ges / Power		1/3	1/3	1/3	1/3	3 / 9 (3+3+3)	3 / 9 (3+3+3)	3 / 9 (3+3+3)		
	Maximum operating cu	irrent	A	13,5	13,5	13,5	13,5	13,3	13,3	13,3		
	Water connections		mm (inch)	33 mm (G1" BSP) external	33 mm (G1" BSP) external	41,91mm (G5/4" BSP) external						
	Pressure relief valve		MPa	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
	Condensate drain			16	16	16	16	16	16	16		
		Total volume / Actual volume	I	8 / 4,8	8 / 4,8	8 / 4,8	8 / 4,8	8 / 4,8	8 / 4,8	8 / 4,8		
Water circuit	Expansion tank	Maximum pressure / Initial pressure	MPa	0,3 / 0,1	0,3 / 0,1	0,3 / 0,1	0,3 / 0,1	0,3 / 0,1	0,3 / 0,1	0,3 / 0,1		
		Туре					PHE / plate heat hanger		1			
	Heat exchanger	Minimum flow	l/min	6	6	6	6	10	10	10		
	Water pump head		m	9	9	9	9	9	9	9		
	mater pump neau											
	Water purce time											
	Water pump type Total water volume		1	DC 3,2	DC 3,2	DC 3,2	DC 3,2	DC 2	DC 2	DC 2		

(1) Seasonal energy efficiency class measured under average climate conditions.

(1) desbuild heldsy encentry class measure a under carbon construction. Notes: DNH- volume to under under a drage carbon construction. Notes: DNH- volume to under under a drage carbon construction. Notes: DNH- volume to under under a drage carbon construction. Notes: DNH- volume to under under a drage carbon construction. Notes: DNH- volume to under under a drage carbon construction. Notes: DNH- volume to under


Aquami Series **Big Mono**

Rotenso Aquami Big Mono is a monoblock Type heat pump with high heating capacities from 22 to 30 kW. In this double-fan Rotenso Aquami Big Mono pump, the refrigerating and hydronic modules are enclosed in a single, compact unit housing for outdoor installation.

This Type of solution makes heat pump installation faster and easier, and requires no additional space for the hydronic module inside the building.

Double-fan design allowed to create high-capacity units to provide building owners who demand high heating power with cost effective solution alternative to cascade arrangement of combined several smaller units. Heat pump housing is designed to provide an easy access to all its components, while operating parameters can be quickly modified and monitored in real time from the user interface.

Modern double-fan design of the Rotenso heat pump and its high efficiency even at low temperatures make it a perfect choice for heating homes, stores, commercial premises and offices with high heating power demand.



AQUAMI BIG MONO







Operating range down to -25°C

Supply water temperature of 60°C

Integrated Wi-Fi

module

functionality



Controller equipped with a temperature sensor





Control via mobile app

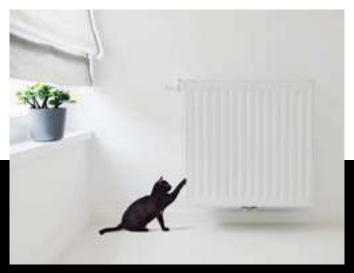






Controller equipped with a temperature sensor

If the sensor detects a difference between the set temperature and the actual temperature in the room, the heat pump will automatically operate to reach the desired temperature inside the building.



Supply water temperature of max. 60°C

If the heat pump is used to heat spaces where radiators are installed the temperature of the supply water in the system must be higher. Rotenso Aquami heat pumps can heat water up to 60°C.



Wi-Fi module

The Rotenso Aquami Big Mono pump can be controlled both by the wired controller and the COMFORT HOME mobile app, whether you are staying at home or not.



Smart Grid **functionality**

The heat pump controller is designed to work with the "Smart Grid". With this feature, he pump automatically turns on to store surplus energy from the photovoltaic (PV) system to make the most of the cheaper electricity tariff.



Operating range down to -25°C

The pump is prepared to operate efficiently even at extreme outdoor temperatures down to -25°C. During the cold winter, it guarantees that supply water for central heating and domestic hot water is heated sufficiently.

Control via mobile app

You can use your tablet or smartphone to control the Rotenso Aquami Big Mono unit no matter where you are.



Device features



tl₀

Efficient

heating

Smart Grid

functionality

Configurable

weekly schedules

Environmentally friendly refrigerant , R32



Energy



0-0 MON

Daily operation schedule



Dedicated application



Disinfection



DHW circulation pump operation schedules



Energy efficiency class at 55°C A++⁽¹⁾



Outdoor unit drip tray heater





Menu in English



Maximum leaving water temperature of 60°C (in DHW mode)



Maximum COP 4,40⁽¹⁾





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SMILE

-25°C

Operating range down to -25°C



Integrated temperature sensor



Weather operating

≜60°C

W

Supply water

temperature

of 60°C





°C° 2 heating control





1.1







zones

1. Refers to unit AQM220X3

Vacation mode

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Energy efficiency

class at 35°C

A+++ (1)

Twin rotary

compressor

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Modbus Protocol





Wired controller

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Integrated USB

port for updates

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Prepared to create

a cascade system









Technical specification

Outdoor unit m	odel			AQM220X3	AQM300X3		
EAN product cod				5905567602245	5905567602252		
Power supply	ль. 		V-Hz, Ø	380-420~50, 3f	380-420~50, 3f		
Toner supply	Capacity		kW	22,00	30,10		
Heating	Rated input		kW	5,00	7,70		
(A7/W35)	COP		NT	4,40	3,91		
			kW	22,00	30,00		
Heating	Capacity Rated input			6,47	10,35		
(A7/W45)	COP		kW				
				3,40	2,90		
Heating	Capacity	kW		22,00	30,00		
(A7/W55)	A7/W55)		kW	8,30	13,04		
	COP			2,65	2,30		
Cooling	Capacity		kW	23,00	31,00		
(A35/W18)	Rated input		kW	5,00	7,75		
	EER			4,60	4,00		
	Capacity		kW	21,00	29,50		
Cooling (A35/W7)	Rated input		kW	7,12	11,57		
(100)(11)	EER			2,95	2,55		
	SCOP ⁽¹⁾			4,53	4,20		
Seasonal energy	Rated heat output		kW	22	29		
efficiency	Seasonal energy efficiency	ratio (ηS)	96	178	165		
LWT at 35ºC	Annual energy consumpti		kWh	10108	14165		
	Seasonal space heating en			A+++	A++		
	SCOP ⁽¹⁾			3,23	3,15		
	Rated heat output		kW	22	30		
Seasonal energy efficiency	Seasonal energy efficiency	ratio (oS)	96	126	123		
LWT at 55°C	Annual energy consumpti		wh	14390	19316		
	Seasonal space heating en		KWII	A++	A+		
	LWT at 7°C	nergy eniciency class**					
SEER				4,70	4,49		
	LWT at 18°C			5,67	5,71		
	current of the overcurrent cir	cuit breaker with breaker type	A	B20	B25		
Compressor		Туре		Twin rotary inverter compressor DC	Twin rotary inverter compressor DC		
Fan		Туре		Brushless DC motor / BLDC	Brushless DC motor / BLDC		
		Quantity		2	2		
		Type / GWP		R32 / 675	R32 / 675		
Refrigerant		Quantity	kg	5	5		
			TCO ₂ eq	3,375	3,375		
Minimal wire pcs	and dimension of cords*		pcs × mm²	5×4	5×4		
Bracket spacing		W1 × W2 × D	mm	668 x 206 x 494	668 x 206 x 494		
Sound pressure I	level		dB(A)	59,8	63,5		
Sound power leve	el		dB(A)	73	77		
Net dimensions		W × D × H	mm	1129 × 528 × 1558	1129 × 528 × 1558		
Gross dimension:	5	W×D×H	mm	1220 × 565 × 1735	1220 × 565 × 1735		
Net weight / Gros	ss weight		kg	177/206	177/206		
	Cooling		•C	-5~46	-5~46		
Operating outdoor	Heating		°C	-25~35	-25~35		
temperature	CWU		°C	-25~43	-25~43		
Operation modes			-	Heating and cooling	Heating and cooling		
,	Space cooling		°C	5~25	5~25		
Leaving water	Space heating		°C	25~60	25~60		
temperature	DHW (tank)		°C	30~60	30-60		
	Power supply	10	V-Hz, Ø	none	none		
Electric heater	Number of heating stages		pcs / kW	none / none	none / none		
	Maximum operating curre	211.	A	none	none		
	Water connections		mm (inch)	41,91 mm (G5/4" BSP) external	41,91 mm (G5/4" BSP) external		
	Pressure relief valve		MPa	0.3	0.3		
	Condensate drain		mm	16	16		
	Expansion tank	Total volume / Actual volume	I	8 / 4,8	8 / 4,8		
Water circuit		Maximum pressure / Initial pressure	MPa	1 / 0,1	1 / 0,1		
	Heat exchanger	Туре		PHE / plate heat exchanger	PHE / plate heat exchanger		
		Minimum flow	l/min	27	27		
	Water pump head		m	12	12		
	Water pump type			DC	DC		
	Total water volume		I	3,5	3,5		

(1) Seasonal energy efficiency class measured under average climate conditions.

Notes: DHW – Domestic hot water, LWT – Leaving water temperature The sound pressure level is measured in min front of the unit and (1+H)2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W45, ΔT=5; A7W55 ΔT=8; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02; 2014. The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than IΔn: 30mA *The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical eleginger should be consulted.



Aquami Series **Multi Split**

Rotenso Aquami Multi Split intended for residential and commercial facilities is a combination air-to-water and air-to-air heat pump system with a capacity of 8 kW. Property owners pay their attention not only to economic aspects but also to stylish design of the solution, therefore, they prefer a single outdoor unit by the building instead of two.

The outdoor unit of the Multi Split HIRO H100Xm4 system and indoor unit of the Aquami Multi Split heat pump with a heating capacity of 8 kW were combined in a single system to offer space heating or cooling with air using air conditioners, space heating with water using underfloor heating, radiators or fan coil units, as well as domestic hot water heating.

Up to 4 indoor units, e.g. up to 3 Multi Series wall, cassette, console or duct type air conditioners

based on the air-to-air system with a total capacity of up to 12 kW, can be connected to the Aquami Multi Split system.

The advantage of the hybrid solution is the savings resulting from the purchase, installation and maintenance of a single system, instead of a separate air conditioning and heating systems, which meets the requirements of efficient heating and cooling at the same time.



AQUAMI MULTI SPLIT



55°C

Water (DHW)

temperature

of 55°C





Operating range down to -20°C (air-to-water)

Supply water temperature of 60°C

Efficient heating





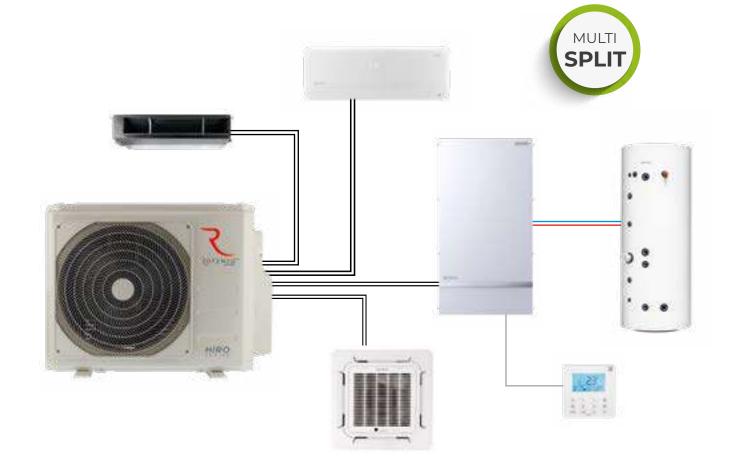
Integrated Wi-Fi

module



Control via mobile app







Water supply (DHW) temperature 55°C

Heat pump is an independent source of heating and hot water for your home. During the cold winter, it guarantees that supply water for central heating and domestic hot water are heated to 55°C.



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Supply water temperature of 60°C

If the heat pump is used to heat spaces where radiators are installed, temperature of the supply water in the system must be higher. Rotenso Aquami heat pumps can heat water up to 60°C.

Integrated Wi-Fi module

The Rotenso Aquami Multi Split heat pump can be controlled both by the wired controller and the NET HOME PLUS mobile app, whether you are staying at home or not.



Wydajne ogrzewanie COP 4,40*

The COP coefficient is the ratio of the useful heating power to the electricity consumed. It indicates heating efficiency of the heat pump. The amount of heating energy produced by the Aquami Multi Split heat pump can be five times the amount of the consumed electric energy.

* maximum COP



Operating range down to -20°C (air-to-water)

PThe pump is prepared to operate efficiently even at extreme outdoor temperatures down to -20°C. During the cold winter, they guarantee that supply water for central heating and domestic hot water are heated sufficiently.



Control via mobile app

UYou can use your tablet or smartphone to control the Rotenso Aquami unit in Multisplit mode no matter where you are.

Aquami Multi Split





Device features

tĮ≬Į

Efficient

heating

Twin rotary

compressor

⊛ |∫____ 80m



R32





Energy meter



Compact indoor split unit housing



Dedicated application



installation length up to 80m



Disinfection



5 DHW circulation pump operation schedules

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++ Energy efficiency

class at 35°C

A++

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Integrated electric

heater

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Energy efficiency class at 55°C A+



Outdoor unit drip tray heater



Daily operation schedule



Maximum leaving water temperature of 55°C (in DHW mode)



Maximum COP 4,40





) H

White

-20°C



≜60°C

W

Supply water

temperature

of 60°C



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Integrated USB

port for updates

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Silent



Multilanguage





















C

Compressor crankcase heater

Prepared to create

a cascade system

**

N Configurable

weekly schedules







menu



Operating range down to -20°C

Technical specification indoor unit

Indoor unit model			AQMS80X1i R13			
EAN product code			5905567602269			
Compatible outdoor unit model			H100Xm4			
Operating mode			Heating and cooling			
Power supply		V-Hz, Ø	220-240~50, 1f			
Nett dimention	(W×D×H)	mm	490 × 918 × 325			
Gross dimention (W×D×H)			570 × 1055 × 415			
Net weight / Gross weight		kg	56 / 64			
Electric heater	Power	kW	3,1			
ciectic rieater	Power consumption	A	13,5			
Sound pressure level		dB(A)	32			
Sound power level		dB(A)	44			
Loging uptor tomograture	Space heating	°C	25~60			
Leaving water temperature	DHW (tank)	°C	35-55			
Control cables: indoor unit to outdoor unit		pcs. × mm²	4 × 1,5 (shielded cable)			

Technical specification outdoor unit

Outdoor unit model		-		H100Xm4 R15
EAN product code				5905567601675
Power supply			V-Hz, Ø	220-240-50, 1f
Power supply		Graniti	V-H2, 60	10,89
	Cooling	Capacity Rated input	kW	3,60
	Cooling	EER	W/W	
				3,01
		Capacity	kW	12,03
	Heating	Rated input	kW	3,00
		COP	W/W	3,71
Air-air		Energy efficiency class		A++
	Seasonal	Annual energy consumption	kWh	608,00
	cooling	Design load in cooling mode		10,60
		SEER		6,10
		Energy efficiency class		A+
	Seasonal	Annual energy consumption	kWh/a	3150
	heating	Design load in heating mode (Tbiv -7°C)	kW	9,00
		SCOP ⁽¹⁾		4,00
		Capacity	kW	8,00
	Heating (A7/W35)	Rated input	kW	1,80
	(CCTRTIC)	COP		4,40
		Capacity	kW	8,00
	Heating	Rated input	kW	2,50
	(A7/W45)	COP		3,20
		Capacity	kW	8,00
	Heating	Rated input	kW	2,60
	(A7/W55)	COP		3,10
ir-water		SCOP ⁽¹⁾		4,45
	Seasonal energy efficiency LWT 35°C	Rated heat output	kW	8,0
		Seasonal energy efficiency ratio (ηS))	96	175,12
		Annual energy consumption	kWh	3712,00
		Seasonal space heating energy efficiency class ⁽¹⁾		A++
		SCOP ⁽¹⁾		2,99
	Constant	Rated heat output	kW	8.0
	Seasonal energy efficiency	Seasonal energy efficiency ratio (ηS)	96	156,6
	LWT 55°C	Annual energy consumption	kWh	5524
	200 00 0		KVVII	
		Seasonal space heating energy efficiency class (1)		A+
	he overcurrent circuit breaker wi	th breaker type	A	B16
Minimal wire pcs and dimen	nsion of cords*		il. × mm ²	3 × 4,0
Control cables: indoor unit t	to outdoor unit		pcs. × mm ²	4 × 1,5 (shielded cable)
Compressor		Туре		Rotary DC
_		Туре		DC
Fan		Quantity		1
		Тур		R32
		GWP		675
Refrigerant			kg	2,1
		Charged (up to 30 mb)	TCO2eq	1,42
	Liquid		mm	4 × Φ6,35 / (4×1/4")
	Gas		mm	3 × Φ9,52 + 1 × Φ12,7 (3 × 3/8" + 1× 1/2")
Pipe connections	Minimum installation length		m	3
	Maximum installation length		m	
	Additional amount of refrige	rant for over 30 m	g/m	12
Maximum height	Outdoor unit above the indo		g/m m	12
Maximum height difference				10
Power cables: outdoor unit	Outdoor unit below the indo	ur urint	m pcs. × mm ²	15 3×4,0
		0460		
Spacing brackets		(W×D)	(mm)	673 × 403
Sound pressure level			dB(A)	
Council and an enter of the		(W×D×H)	dB(A)	68
Sound power level		(WAI)AH)	mm	946 × 410 × 810
Nett weight				
Nett weight Gross weight		(W×D×H) (W×D×H)	mm	1090 × 500 × 865
Nett weight		(W×D×H)	kg	68,8 / 75,6
Nett weight Gross weight	Air.to.air	(W×D×H) Cooling	kg °C	688 / 75,6 -15-50
Nett weight Gross weight	Air-to-air	(W×D×H)	kg	68.8 / 75,6 -15-50 -20-24
Nett weight Gross weight Net weight / Gross weight	Air-to-air Air-to-water	(W×D×H) Cooling	kg °C	68.8 / 75,6 -15-50

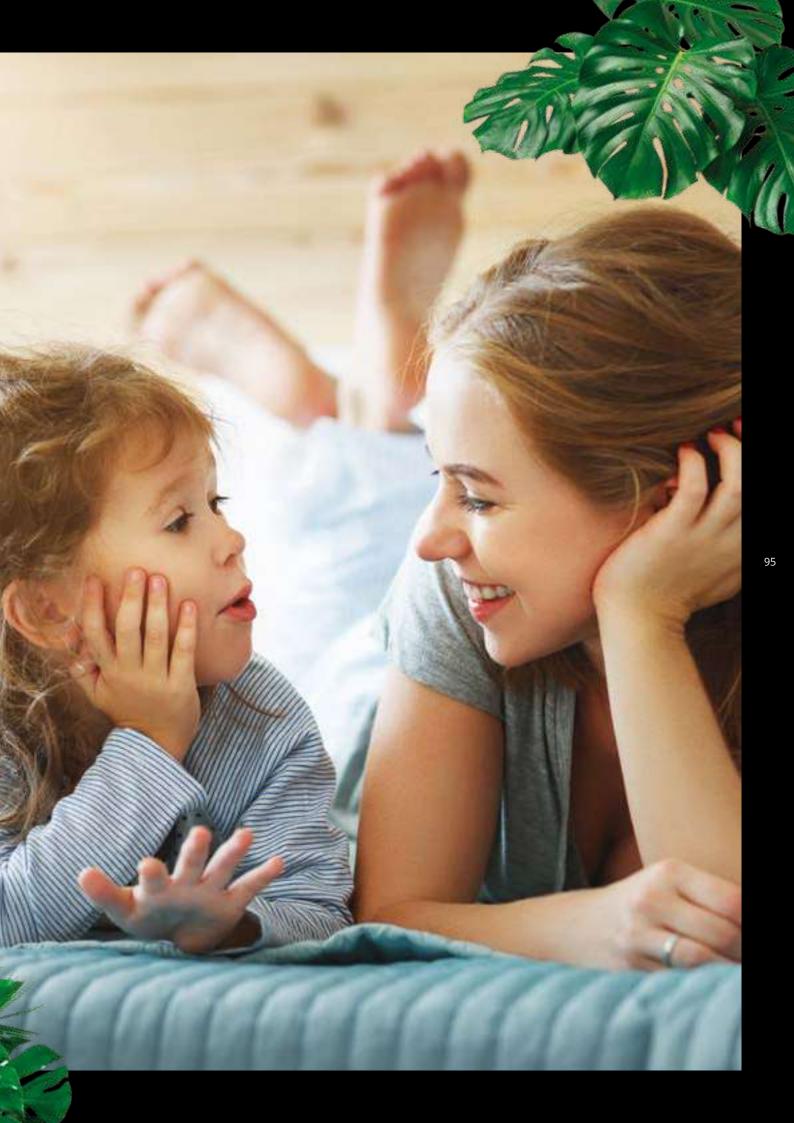
(1) Seasonal energy efficiency class measured under average climate conditions.

WE ARE FUTURE

S E R I E S

Monoblock Rotenso Windmi Series





Windmi Series **useful features**

New Rotenso Windmil Monoblock heat pumps are comfortable in daily use due to an intuitive icon-based controller and 4 programmable dry contacts.



Parental lock

Function blocking the controller in order to secure against unwanted interference of the third parties.



Vacation mode & Eco mode

Vacation mode and eco mode for improved user experience



Disinfection

Heating water in the system to 70°C contributes to the effective elimination of Legionella bacteria.





Programmable Dry Contact

You can program up to four buttons to perform certain actions such as pump start or forced switch to fast DHW heating mode.



Fast DHW heating mode

Forces the system into DHW mode for immediate hot water preparation.



Connects to PV systems

In response to excessive electricity generation signal the heat pump can be set to store electric energy in the form of hot water.



Dedicated controller

Controller features:

- Touchscreen controller
- Integrated Wi-Fi module
- LCD display
- Configurable daily schedules
- Configurable weekly schedules
- Out-of-home vacation mode
- Eco mode
- Screen lock
- Parental lock
- Audible alarm
- Integrated temperature sensor
- Adjustable water temperature
- Adjustable air temperature
- Climate curves.



ORIS heat pump controller for Rotenso Windmi system

All in **the app**

You can use your tablet or smartphone with TUYA SMART app to control the Rotenso Windmi Monoblock unit no matter where you are.



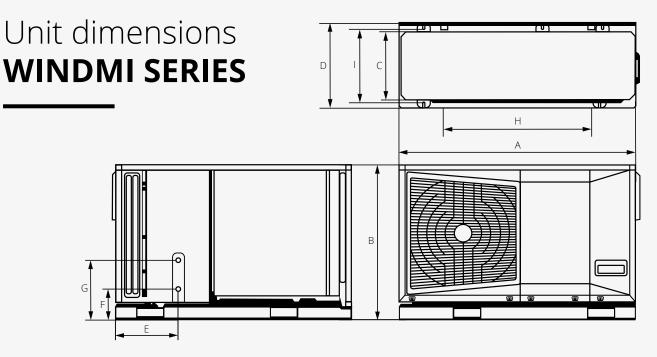
35%

-10°C

1°C

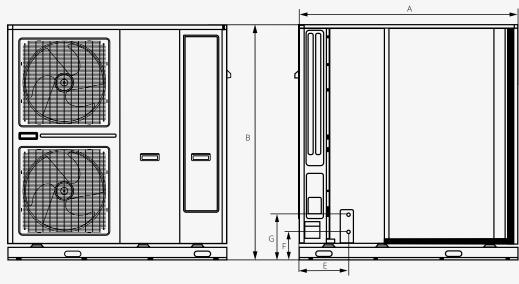
99

DHW



Rotenso Windmi Monoblock outdoor unit 6/8/10 kW

	Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W1xD) [mm]	A	В	с	D	E	F	G	н	I	Net weight [kg]
-	WIM60X1	6 kW	1335 × 475 × 875	836 x 445	1335	875	410	475	353	170	334	836	445	109
0	WIM80X1	8 kW	1335 × 475 × 875	836 x 445	1335	875	410	475	353	170	334	836	445	120
	WIM100X1	10 kW	1335 × 475 × 875	836 x 445	1335	875	410	475	353	170	334	836	445	126





Rotenso Windmi Monoblock outdoor unit 12/14/16 kW

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W1xD) [mm]	A	В	с	D	E	F	G	н	I	Net weight [kg]
WIM120X3	12 kW	1302 × 465 × 1517	784 x 428	1302	1517	370	465	289	201	332	784	428	180,9
WIM140X3	14 kW	1302 × 465 × 1517	784 x 428	1302	1517	370	465	289	201	332	784	428	182,9
WIM160X3	16 kW	1302 × 465 × 1517	784 x 428	1302	1517	370	465	289	201	332	784	428	182,9

Solutions WINDMI SERIES





Rotenso Windmi is a brand new series of energy-efficient single- and double-fan monoblock heat pumps with capacities ranging from 6 to 16 kW.







Solutions WINDMI MONOBLOCK



Rotenso Windmi Monoblock is a heat pump in which the refrigeration module and the hydronic module are contained in a single, compact unit housing. This type of solution makes it easier and faster to install the heat pump, and requires no additional space for the hydronic module inside the building.

Heat pump double door housing is designed to provide an easy access to all its components, while operating parameters can be quickly modified and monitored in real time from the user interface. The state-of-the-art design and technology used in the Rotenso Windmi Series solutions ensures high efficiency at low temperatures. Modern architecture enthusiasts will love the simple design of these single- and double-fan units suitable for buildings with both high and low demand for heating power.











6-10 kW

12-16 kW

Model	Rotenso Windmi Monoblock							
Capacity (kW)	6	8	10	12	14	16		
220-240~50, 1f	•	•	•					
380-420~50, 3f				•	•	•		



Windmi Series Monoblock

Rotenso Windmi is a brand new series of energy-efficient single- and double-fan monoblock heat pumps with capacities ranging from 6 to 16 kW.

Both refrigeration and hydronic modules are enclosed in a single, compact heat pump housing designed for outdoor installation.

This type of solution is recommended for small buildings with no separate room to install an indoor unit.

TUYA SMART, a popular app for smart home asset management which allows to control the heat pump remotely, contributes to a major user experience improvement.

There are also 4 programmable dry contacts to customize controls according to personal preferences to further facilitate the daily use of the unit.

Intuitive, icon-based controller and 4 programmable dry contact buttons to customize controls according to user preferences make the solution even more convenient. Simple, geometric design of the devices will please the modern architecture enthusiasts.



WINDMI MONO BLOCK







Operating range down to -25°C

Supply water temperature of 62°C

Programmable Dry Contact



Temperature sensor integrated with touchscreen controller



module



Control via mobile app

105









Supply water **temperature of 62°C**

If the heat pump is used to heat spaces where radiators are installed, temperature of the supply water in the system must be higher. Rotenso Windmi heat pump can heat water up to 62°C.



Temperature sensor integrated with touchscreen controller

A temperature sensor with a touchscreen controller allows for real-time, precise control of the temperature inside the room.



Integrated Wi-Fi module

The Rotenso Windmi Monoblock pump can be controlled both by the wired controller and the TUYA SMART mobile app, whether you are staying at home or not.



Programmable Dry Contact

Customize up to four buttons. Create independent contacts to start the heat pump, force it into quick DHW heating mode or perform other actions, as needed.



Operating range down to -25°C

Heat pumps are prepared for efficient operation even at extreme outdoor temperatures as low as -25°C. During the cold winter, they guarantee that supply water for central heating and domestic hot water are heated sufficiently.



Control via mobile app

You can use your tablet or smartphone to control the Rotenso Windmi Monoblock unit no matter where you are.











Environmentally friendly refrigerant , R32



Twin rotary compressor



Vacation mode



tĮ≬Į

Efficient

heating

Integrated electric heater



Integrated temperature sensor

l



Weather operating modes (climate curve)



COTENSO

Writers

COP

Ć

Easy installation

Energy efficiency class at 55°C A++



Compressor



Dedicated application



ROTENSE

Operating range down to -25°C



WiFi module in wired controller







Modbus Protocol



::

Witten



Programmable Dry Contact



Daily operation schedule

weekly schedules



62°C

M

Supply water temperature of 62°C

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Energy efficiency

class at 35°C

A+++

". ".,

100

crankcase heater

and maintenance



Disinfection





Maximum leaving water temperature of 62°C (in DHW

mode)





4,75 Maximum COP 4,75⁽¹⁾

Technical specification

Outdoor model				WIM60X1	WIM80X1	WIM100X1	WIM120X3	WIM140X3	WIM160X3
EAN product code				5905567602276	5905567602283	5905567602290	5905567602306	5905567602313	5905567602320
Power supply			V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
	Capacity		kW	6,00	8,00	10,00	12,00	14,00	16,00
Heating (A7/W35)	Rated input		kW	1,35	1,70	2,25	2,53	3,01	3,48
	COP			4,45	4,70	4,45	4,75	4,65	4,60
	Capacity		kW	6,00	8,00	10,00	12,00	14,00	16,00
Heating (A7/W45)	Rated input		kW	1,74	2,22	2,86	3,38	3,94	4,57
	COP			3,45	3,60	3,50	3,55	3,55	3,50
	Capacity		kW	5,80	7,70	9,50	11,50	12,00	13,50
Heating A7/W55)	Rated input		kW	2,15	2,70	3,54	4,04	4,36	5,00
,	COP			2,70	2,85	2,68	2,85	2,75	2,70
	Capacity		kW	5,50	7,00	9,00	11,00	13,50	14,50
Cooling A35/W18)	Rated input		kW	1,38	1,75	2,25	2,75	3,46	3,82
	EER			4,00	4,00	4,00	4,00	3,90	3,80
	Capacity		kW	5,00	6,50	8,00	10,50	12,00	14,00
Looling A35/W7)	Rated input		kW	1,82	2,24	2,67	3,82	4,44	5,28
-00/11/7	EER			2,75	2,90	3,00	2,75	2,7	2,65
	SCOP (1)			4,75	4,90	4,98	4,91	4,94	4,78
easonal energy	Rated heat output		kW	6,05	8,09	9,73	11,94	14,03	14,79
fficiency	Seasonal energy efficiency rat	io (ηS)	96	187	193	196	193	195	188
WT at 35°C	Annual energy consumption		kWh	2583	3335	3980	4983	5789	6392
	Seasonal space heating ener	gy efficiency class ⁽¹⁾		A+++	A+++	A+++	A++++	A+++	A+++
	SCOP (1)			3,25	3,36	3,41	3,39	3,42	3,36
easonal energy	Rated heat output		kW	5,59	7,61	9,09	11,96	11,99	13,06
fficiency	Seasonal energy efficiency rat	io (ηS)	96	127	131	134	133	134	131
WT at 55°C	Annual energy consumption		kWh	3480	4590	5378	7222	7204	7948
	Seasonal space heating ener	gy efficiency class (1)		A++	A++	A++	A++	A++	A++
	LWT at 7°C			4,51	4,79	4,89	5,04	5,05	5,06
EER	LWT at 18°C			6,39	6,80	6,25	6,60	6,37	6,14
Ainimum rated curn	ent of the overcurrent circuit br	eaker with breaker type	A	B32	B40	B40	B25	B25	B32
Compressor		Туре	~	202	510		er compressor DC	013	0.02
		Туре					motor / BLDC		
an		Quantity		1	1	1	2	2	2
		Туре		R32	R32	R32	R32	R32	R32
		GWP		675	675	675	675	675	675
Refrigerant		Gill	kg	1,1	1,6	1,8	2,2	2,6	2,6
		Quantity	TCO2eq	0,74	1,08	1,22	1,49	1,76	1,76
Ainimal wire ncs and	d dimension of cords*		pcs × mm ²	3×6	3×10	3×10	5×4	5×4	5×6
Bracket spacing	d dimension of cords	W1 × D	mm	836 × 445	836 × 445	836 × 445	784 × 428	784 × 428	784 × 428
Sound pressure leve	al		dB(A)	53	54	55	56	56	58
Sound pressure level	φ1		dB(A)	64	65	66	69	69	70
let dimensions		W×D×H	mm	1335 × 475 × 875	1335 × 475 × 875	1335 × 475 × 875	1302 × 465 × 1517	1302 × 465 × 1517	1302 × 465 × 151
Gross dimensions		W×D×H	mm	1420 × 535 × 1045	1420 × 535 × 1045	1420 × 535 × 1045	1364 × 518 × 1690	1364 × 518 × 1690	1364 × 518 × 169
let weight / Gross w	weight	WADAN		109 / 125	120 / 135,5	126 / 142,1	180,9 / 200,9	182,9 / 202,9	182,9 / 202,9
			kg				-5~50 / -25~43		
Operating outdoor emperature	Cooling / Heating		°C °C	-5~50 / -25~43 -25~43	-5~50 / -25~43 -25~43	-5~50 / -25~43 -25~43	-5~507-25~43	-5~50 / -25~43	-5~50 / -25~43 -25~43
	DHW			-20~43	-25~43			-25~43	-25~43
Operation modes	Contraction		25	5.05	5.25	-	nd cooling	5.05	5.95
eaving water	Space cooling		°C	5~25	5~25	5~25	5~25	5~25	5~25
emperature	Space heating		°C	25~62	25~62	25~62	25~62	25~62	25~62
	DHW (tank)		°C	40~62	40~62	40~62	40~62	40~62	40~62
	Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 31
lectric heater	Number of heating stages		pcs	1	1	1	3	3	3
	Power		kW	3	3	3	9	9	9
	Maximum operating current		A	13,6	13,6	13,6	13,6	13,6	13,6
	Water connections		mm(inch)	Φ25,4 (1")	Φ25,4 (1")	Φ25,4 (1")	Φ31,75 (1,25")	Φ31,75 (1,25")	Φ31,75 (1,25")
	Pressure relief valve		MPa	0,6	0,6	0,6	0,6	0,6	0,6
	Condensate drain		mm	20	20	20	20	20	20
		Total volume	1	5	5	5	5	5	5
	Expansion tank		1	5	5	5	5	5	5
	Expansion tank	Actual volume					1	1	
Vater circuit	Expansion tank	Actual volume Maximum pressure	MPa	1	1	1		1	1
Vater circuit	Expansion tank			1 0,15	0,15	0,15	0,15	0,15	0,15
Vater circuit		Maximum pressure	MPa			0,15			
Vater circuit	Expansion tank Heat exchanger	Maximum pressure Initial pressure	MPa			0,15	0,15		
Water circuit	Heat exchanger	Maximum pressure Initial pressure Type	MPa MPa I/min	0,15	0,15	0,15 PHE / plate h 6	0,15 eat exchanger 12	0,15	0,15
Water circuit		Maximum pressure Initial pressure Type	MPa MPa	0,15	0,15	0,15 PHE / plate h	0,15 eat exchanger	0,15	0,15

(1) Seasonal energy efficiency class measured under average climate conditions.

(1) desbuild reliegy efficiency class measured under beneficiency class measured under beneficiency class measured under beneficiency class measured and beneficiency class measured and beneficiency class measured. The sound pressure level is measured 1m in front of the unit and (1+H)2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, $\Delta T=5$; A7W55 $\Delta T=6$; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 (2 / 20702; 2014). The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than ldn: 30mA *The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.

WE ARE FUTURE

HEATQU SERIES

Split **Rotenso Heatmi Series**





Heatmi Series **useful features**

Rotenso Heatmi air-to-water split-type heat pumps are energy-efficient and maintenance-free heat source. Remote control via a mobile app and a number of useful features ensure user comfort.



Combination of operation modes

4 basic operation modes (cooling, heating, DHW, auto) and additional 3 combined operation modes to meet different user requirements.



Disinfection

Heating water in the system to 70°C contributes to the effective elimination of Legionella bacteria.



ECO mode

Mode to reduce consumption of electric energy.





Fast DHW heating mode

Forces the system into DHW mode for immediate hot water preparation.



DHW circulation pump control

Keeps hot water circulating in the system according to a preset timer.



Smart Grid functionality

The heat pump controller is designed to work with the "Smart Grid".



ATEA heat pump controller in the Rotenso Heatmi 4-10 kW

Controller and sensor with colour display for Heatmi 4-10 kW

You can use the controller to:

- Check the heat pump operation status and mode
- Set temperature and operation mode
- Easily activate: vacation mode, home vacation mode, eco mode
- Set up schedule and timer
- Activate second temperature control zone
- Monitor system status
- Set the heating curve
- Display error codes
- Set language for messages
- Check operating parameters
- Set audible alarm

The controller with an integrated temperature sensor can act as an indoor thermostat.



High supply temperature zone, e.g. radiator heating.



Low supply temperature zone, e.g. underfloor heating.



Domestic hot water heating mode



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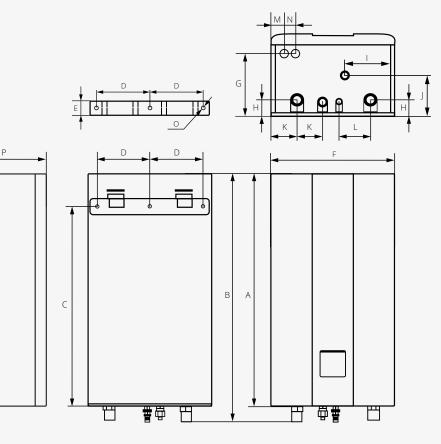
Intelligence Inside

App **controlled**

Use the application to:

- Set up operation schedule
- Monitor system status
- Check heat pump status and operation mode
- Activate second temperature control zone
- Set temperature and operation mode

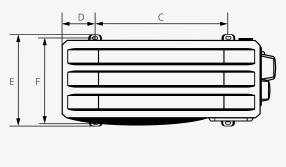
Unit dimensions **HEATMI SERIES**

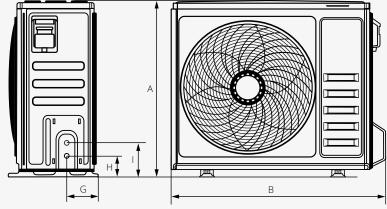


Rotenso Heatmi Split indoor unit 6/8/10/12/14/16 kW

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Model	Power	Net dimensions (W×D×H) [mm]	A	в	с	D	E	F	G	н	I	J	к	L	м	N	o	Р	Net weight [kg]
HES60X1i	6 kW	420 × 270 × 790	790	844	694,4	180	50	420	211	54	170	136	88	109	45	38	3 x Ø12	270	38,5
HES80X13i	8 kW	420 × 270 × 790	790	844	694,4	180	50	420	211	54	170	136	88	109	45	38	3 x Ø12	270	39,5
HES100X13i	10 kW	420 × 270 × 790	790	844	694,4	180	50	420	211	54	170	136	88	109	45	38	3 x Ø12	270	39,5
HES120X13i	12 kW	420 × 270 × 790	790	844	694,4	180	50	420	211	54	170	136	88	109	45	38	3 x Ø12	270	43
HES140X13i	14 kW	420 × 270 × 790	790	844	694,4	180	50	420	211	54	170	136	88	109	45	38	3 x Ø12	270	43
HES160X13i	16 kW	420 × 270 × 790	790	844	694,4	180	50	420	211	54	170	136	88	109	45	38	3 x Ø12	270	43





Rotenso Heatmi Split outdoor unit 4/6/8/10/12/14/16 kW

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W1xD) [mm]	A	В	с	D	E	F	G	н	I	Net weight [kg]
HES40X1o	4 kW	993 × 421 × 804	607 x 390	804	977	607	154	421	390	155	95	156	59,5
HES60X1o	6 kW	993 × 421 × 804	607 x 390	804	977	607	154	421	390	155	95	156	59,5
HES80X1o	8 kW	993 × 421 × 804	607 x 390	804	977	607	154	421	390	155	95	156	59,5
HES100X1o	10 kW	993 × 421 × 804	607 x 390	804	977	607	154	421	390	155	95	156	59,5
HES120X1o	12 kW	1010 × 410 × 850	660 x 462	850	1079	660	176	494	410	192	94	155	90
HES140X1o	14 kW	1010 × 410 × 850	660 x 462	850	1079	660	176	494	410	192	94	155	90
HES160X1o	16 kW	1010 × 410 × 850	660 x 462	850	1079	660	176	494	410	192	94	155	90

Solutions **HEATMI SERIES**





Rotenso Heatmi Split consists of an outdoor unit (condenser) and a hydronic module (for indoor installation).



Solution **HEATMI SPLIT**



Rotenso HEATMI air-to-water split-type heat pump consists of a hydronic module, i.e. a hydrobox for indoor installation, and an outdoor unit, i.e. a condenser. The advantage of such a solution is that the indoor hydrobox can be easily accessed.

Moreover, in split heat pumps, the refrigeration connection between the hydrobox and the outdoor unit, is extremely resistant to freezing, even during prolonged power outages. High quality components and advanced technology guarantee many years of cost-efficient and trouble-free operation.

Standard equipment:

- 1. Indoor unit
- 2. Outdoor unit
- 3. Wired controller
- 4. DHW tank sensor
- 5. Plate heat exchanger
 - 6. Flow meter

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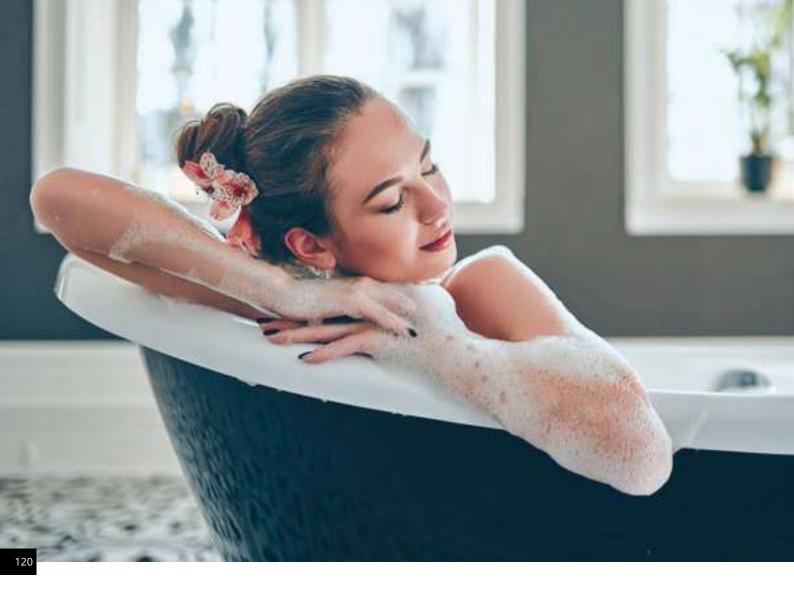
- 7. Diaphragm vessel
- 8. Pressure gauge
- 9. Circulation pump
- 10. Pressure relief valve
- 11. Purge valve
- 12. Y water filter





4-10 kW

Model		Rotenso H	eatmi Split	
Capacity (kW)	4	6	8	10
220-240~50, 1f	•	•	•	•



Heatmi Series **Split**

Rotenso Heatmi Split heat pump consists of an outdoor unit and a sleek, compact hydronic module (hydrobox) for indoor installation. The highest energy efficiency class A+++ combined with excellent capacity at extremely low outdoor temperatures ensure cost-effective and reliable operation of this ecological heat source.

Prepared for operation at extremely low outdoor temperatures of down to -25°C, Rotenso Heatmi heat pumps supply central heating systems (including conventional radiators) with water up to 65°C.

The **COP** of **5.20*** means that the amount of heating energy produced by the Rotenso Heatmi heat pumps is more than five times the amount of the consumed electric energy.

Increased energy efficiency combined with unique fan blade design and twin rotary DC compressor ensure the Rotenso Heatmi's high efficiency with minimal noise – only 35 dB(A) (in silent mode).

The heat pump can be controlled by a wired controller or a TUYA SMART mobile app to make its daily use even more comfortable.



HEATMI SPLIT



Operating range

down to -25°C

Controller with

colour display

and integrated temperature sensor



Supply water

temperature

of 65°C

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Integrated Wi-Fi

module



Compact SLIM housing



Control via mobile app





Compact and stylish, the two-colour indoor unit with a black controller and a vivid display will appeal to those looking for solutions suitable for modern interiors.

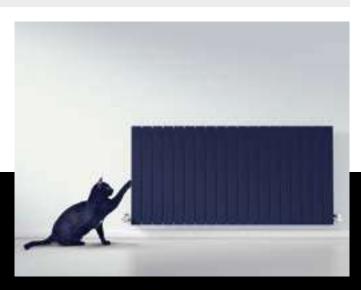


* COP 5.20 for HES40X10



Integrated **temperature sensor**

Elegant controller with a colour display will make your daily use of the heat pump easier.



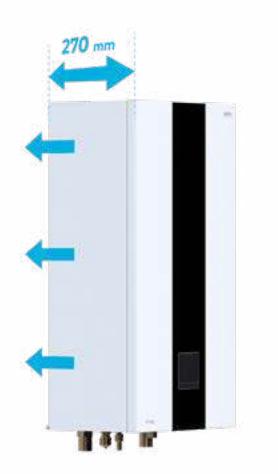
Supply water temperature of max. 65°C

If the heat pump is used to heat spaces where radiators are installed the temperature of the supply water in the system must be higher. Rotenso Heatmi heat pumps can heat water up to 65°C.



Integrated Wi-Fi module

The Rotenso Heatmi Split heat pump can be controlled both by the wired controller and the TUYA SMART mobile app, whether you are staying at home or not.



Compact **SLIM housing**

Rotenso heat pump design is a response to the individual needs of investors, owners of large and small buildings, as well as changing standards in residential construction industry.

The smallest indoor unit on the market with a depth of just 270 mm.



Operating range down to -25°C

The pump is prepared to operate efficiently even at extreme outdoor temperatures down to -25°C. During the cold winter, it guarantees that supply water for central heating and domestic hot water is heated sufficiently



Control via mobile app

You can use your tablet or smartphone to control the Rotenso Heatmi Split unit no matter where you are.

Heatmi Split 4-10 kW



Device features

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Efficient

heating

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Integrated electric

heater

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Integrated Wi-Fi

module





Environmentally friendly refrigerant R32



Twin rotary compressor



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Weather operating modes (climate curve)

1. Refers to unit HES40X1o.



2 heating control zones



Dedicated application

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Energy efficiency

class at 35°C

A+++

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Outdoor unit drip

tray heater

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Daily operation

schedule



Disinfection



Energy efficiency class at 55°C A++



Compressor crankcase heater



Configurable weekly schedules





COP

5,20

Maximum

COP 5,20 (1)

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Indoor unit

drip tray

Vacation mode



DHW circulation Maximum leaving pump operation water temperature schedules of 60°C (in DHW



Operating range down to -25°C



Easy installation and maintenance

EN

Menu

in English

● 60°C

mode)

Compact indoor split unit housing

65°C

M

Supply water temperature of 65°C



ΆM heatpump.keymat



Integrated temperature sensor

Smart Grid

functionality

* ||____ 30m

Maximum



Modbus Protocol



































Prepared to create

a cascade system













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Multilanguage



















Technical specification

Indoor unit mode	el			HES6		HES80X13i	HES100X13i
SKU			EAN	5905567		5905567602382	5905567602399
ompatible outdoo	or unit model			HES40X1o /		HES80X1o	HES100X1o
peration modes				Heating an		Heating and cooling	Heating and cooling
eaving water	Space cooling		°C	5~2		5~25	5~25
mperature	Space heating		°C	25~		25~65	25~65
	DHW (tank)		°C	30~	60	30~60	30~60
ower supply			V-Hz, Ø	220-240)~50, 1f	220-240 - 50, 1f 380-420 - 50, 3f	220-240 - 50, 1f 380-420 - 50, 3f
			W	310	20	9100	9100
ated input							
perating current			A	13		13,1	13,1
ound power level			dB(A)	42		42	42
	Power supply		V-Hz, Ø	220-240		380-420~50, 3f	380-420~50, 3f
lectric heater	Number of heating stages		pcs	1		3	3
	Power		kW	3		9	9
	Maximum operating current		A	13		13,3	13,3
let dimensions		W × D × H	mm	420 × 27		420 × 270 × 790	420 × 270 × 790
ross dimensions		W × D × H	mm	530 × 355		530 × 355 × 1035	530 × 355 × 1035
et weight / Gross v			kg	38,5 /		39,5 / 44,5	39,5 / 44,5
	Water connections		inch	R1		R1"	R1"
	Pressure relief valve		MPa	0,-		0,3	0,3
	Condensate drain		mm	Φ2	15	Φ25	Φ25
		Total volume	1	8		8	8
ator circuit	Expansion tank	Actual volume	1	2,-		2,4	2,4
ater circuit	Expansion tank	Maximum pressure	MPa	0,3	3	0,3	0,3
		Initial pressure	MPa	Ū,	1	0,1	0,1
	User such as	Туре			PHE / plate	heat exchanger	
	Heat exchanger	Minimum flow	l/min	14,	.2	14,2	14,2
	Water pump head		m	9	1	9	9
	Water pump type			DC inv	verter	DC inverter	DC inverter
efrigerant circuit	Liquid / Gas		mm	Φ9,52 /		Φ9,52 / Φ15,9	Φ9,52 / Φ15,9
	nd dimension of cords*		pcs × mm ²	3×.		5×2,5	5 × 2,5
	por unit to outdoor unit		pcs × mm ²			hielded cable)	
				1156 1011			
utdoor unit mod	uei			HES40X1o	HES60X1o	HES80X10	HES100X1o
ower supply			EAN	5905567602337	5905567602344	5905567602351	5905567602368
ompatible indoor i	unit model			HES60X1i	HES60X1i	HES80X13i	HES100X13i
ower supply			V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f
ating	Capacity		kW	4,31	6,27	8,00	9,50
7/W35)	Rated input		kW	0,82	1,24	1,60	1,98
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	COP			5,20	5,01	5,00	4,80
	Capacity		kW	4,35	6,35	8,00	9,50
eating 7/W45)	Rated input		kW	1,14	1,65	2,11	2,60
/////+3)	COP			3,80	3,75	3,80	3,65
	Capacity		kW	4,47	6,15	7,40	9,00
eating	Rated input		kW	1,49	2,00	2,38	3,00
(7/W55)	COP			2,95	3,00	3,11	3,00
	Capacity		kW	4,53	6,71	8,00	9,50
poling	Rated input		kW	0,81	1,34	1,67	2,07
35/W18)	EER		NVV	5,55	4,90	4,80	4,60
			kW	4,68	7,13	7,00	8,00
ooling	Capacity						
35/W7)	Rated input		kW	1,36	2,33	2,14	2,53
	EER			3,45	3,00	3,27	3,16
	SCOP (1)			4,85	4,95	4,90	4,87
asonal energy	Rated heat output		kW	5,5	6,8	8,0	9,0
iciency	Seasonal energy efficiency ratio	(ηS)	96	189	194,8	192,7	191,7
/T at 35⁰C	Annual energy consumption		kWh	2368	2841	3404	3791
	Seasonal space heating energy	efficiency class ⁽¹⁾		A+++	A+++	A+++	A+++
	SCOP (1)			3,31	3,52	3,44	3,41
asonal energy	Rated heat output		kW	4,30	5,60	7,00	8,00
ficiency	Seasonal energy efficiency ratio	(ηS)	96	129,4	138,5	135,6	133,4
VT at 55°C	Annual energy consumption		kWh	2684	3270	4205	4895
	Seasonal space heating energy	efficiency class ⁽¹⁾		A++	A++	A++	A++
	LWT at 7°C			4,74	5,07	5,54	5,68
ER	LWT at 18°C			7,38	7,80	8,50	8,34
	rent of the overcurrent circuit brea	ker with breaker type	A	B16	B16	B20	B20
nimum rated curr	ter car car car bi ea	Type				rter compressor DC	220
						C motor / BLDC	
		Type		1	Brushiess D	1	1
ompressor		Quantity		R32	R32	R32	R32
ompressor				R32 675			
ompressor		Туре			675	675	675
n		GWP	1		4.00	4.00	
mpressor n			kg	1,65	1,65	1,65	1,65
mpressor n		GWP	TCO ₂ eq	1,65 1,11	1,11	1,11	1,11
mpressor 1	Liquid / Gas	GWP	TCO2eq mm	1,65 1,11 Ф9,52 / Ф15,9	1,11 Φ9,52 / Φ15,9	1,11 Φ9,52 / Φ15,9	1,11 Φ9,52 / Φ15,9
mpressor n frigerant	Minimum installation length	GWP	TCO2eq mm m	1,65 1,11 Φ9,52 / Φ15,9 2	1,11 Φ9,52 / Φ15,9 2	1,11	1,11 Φ9,52 / Φ15,9 2
mpressor n frigerant		GWP	TCO2eq mm	1,65 1,11 Ф9,52 / Ф15,9	1,11 Φ9,52 / Φ15,9	1,11 Φ9,52 / Φ15,9	1,11 Φ9,52 / Φ15,9
mpressor n frigerant	Minimum installation length	GWP Quantity	TCO2eq mm m	1,65 1,11 Φ9,52 / Φ15,9 2	1,11 Φ9,52 / Φ15,9 2	1,11	1,11 Φ9,52 / Φ15,9 2
mpressor n frigerant pe connections aximum height	Minimum installation length Maximum installation length	GWP Quantity t for over 15 linear meters	TCO3eq mm m m	1,65 1,11 Φ9,52 / Φ15,9 2 30	1,11 Φ9,52 / Φ15,9 2 30	1,11 09,52 / 015,9 2 30	1,11 Φ9,52 / Φ15,9 2 30
n frigerant pe connections aximum height	Minimum installation length Maximum installation length Additional amount of refrigeran	GWP Quantity t for over 15 linear meters unit	TCO ₂ eq mm m m g/m	1,65 1,11 Φ9,52 / Φ15,9 2 30 38 (L-15)	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15)	1,11 09,52 / 015,9 2 30 38 (L-15)	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15)
ompressor in sfrigerant pe connections aximum height ifference	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor	GWP Quantity t for over 15 linear meters unit	TCO2eq mm m g/m m	1,65 1,11 0,52 / 015,9 2 30 38 (L-15) 20	1,11 09,52 / 015,9 2 30 38 (L-15) 20	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20	1,11
mpressor n frigerant be connections aximum height fference inimal wire pcs an	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor Outdoor on the low the indoor odimension of cords*	GWP Quantity t for over 15 linear meters unit	TCO ₂ eq mm m m g/m m m	1,65 1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3 × 2,5	1,11 Φ9,52/Φ15,9 2 30 38 (L-15) 20 20	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20
mpressor n frigerant be connections aximum height firerence nimal wire pcs an introl cables: indo	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor	GWP Quantity tor over 15 linear meters unit unit	TCO2eq mm m g/m m pcm m pcs × mm² pcs × mm²	1,65 1,11 \$\phi_52 / \phi_5,9 2 30 38 (L-15) 20 20 3 × 2,5	1,11 09,527015,9 2 30 38(L-15) 20 20 3×2,5 2×0,75 (s	1,11 Φ9,52 / 015,9 2 30 38 (L-15) 20 20 3 × 4 helded cable)	1,11 Φ9,52/Φ15,9 2 30 38 (L-15) 20 20 3×4
ampressor an efrigerant pe connections aximum height ifference inimal wire pcs an antrol cables: indo racket spacing	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor d dimension of cords*	GWP Quantity t for over 15 linear meters unit	TCO ₂ eq mm m g/m g/m pcs × mm ² pcs × mm ²	1,65 1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 20 3 × 2,5 607 × 390	1,11 09,52 / 015,9 2 30 38 (L-15) 20 20 3 × 2,5 2 × 0,75 (s 607 × 390	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3 × 4 hielded cable) 607 × 390	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3 × 4 607 × 390
ompressor in sfrigerant pe connections aximum height ifference inimal wire pcs an ontrol cables: indo racket spacing pund pressure lew	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor d dimension of cords*	GWP Quantity tor over 15 linear meters unit unit	TCO ₂ eq mm m g/m m pcs × mm² mm dB(A)	1,65 1,11 \$\Phi_5,2 / \Phi_5,9 2 30 38 (L-15) 20 20 20 3 × 2,5 607 × 390 44	1,11 09,52 / 015,9 2 30 38 (L-15) 20 20 3 × 2,5 2 × 0,75 (s 607 × 390 45	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 20 33 4 hickded cable) 607 × 390 47	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3 × 4 607 × 390 50
an efrigerant pe connections aximum height ifference inimal wire pcs an ontrol cables: indo racket spacing ound pressure level pound power level	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor d dimension of cords*	GWP Quantity t for over 15 linear meters unit W1 × D	TCO ₂ eq mm m g/m g/m m pcs × mm ² pcs × mm ² mm dB(A)	1,65 1,11 Φ9,52 / Φ15,9 2 30 38 (L15) 20 20 3 × 2,5 607 × 390 44 56	1,11 09,527015,9 2 30 38 (L-15) 20 22 22 2×0,75 (s 607×390 45 58	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 3×4 helded cable) 607 × 390 47 60	1,11 Φ9,52/Φ15,9 2 30 38 (L-15) 20 20 3×4
In In In International Interna	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor d dimension of cords*	GWP Quantity Quantity Unit wnit W1 × D W1 × D W1 × D	TCO_seq mm m g/m m m m pcs x mm ³ pcs x mm ³ mm dB(A) dB(A)	1,65 1,11 \$\Phi_52 / \Phi_5,9 2 30 38 (L-15) 20 20 3 × 2,5 607 × 390 44 56 993 × 421 × 804	1,11 09,52 / 015,9 2 30 38 (L-15) 20 20 3 × 2,5 2 × 0,75 (s 607 × 390 45 58 993 × 421 × 804	1,11 Φ9,52 / 015,9 2 30 38 (L-15) 20 30 3×4 helded cable) 607 × 390 47 60 993 × 421 × 804	1,11 Φ9,52/Φ15,9 2 30 38 (L-15) 20 20 3 × 4 607 × 390 50 61 993 × 421 × 804
ampressor an efrigerant pe connections aximum height ifference inimal wire pcs an antrol cables: indo aracket spacing bund pressure lew bund power level et dimensions	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor d dimension of cords* oor unit to outdoor unit	GWP Quantity t for over 15 linear meters unit W1 × D	TCO_seq mm m g/m g/m pcsxmm² pcsxmm² pcsxmm² dB(A) dB(A) mm	$ \begin{array}{c} 1,65\\ 1,11\\ 0.9(52/015,9)\\ 2\\ 30\\ 38(L-15)\\ 20\\ 20\\ 20\\ 3 \times 2,5\\ 607 \times 390\\ 44\\ 56\\ 993 \times 421 \times 804\\ 1022 \times 480 \times 835\\ \end{array} $	1,11 09,52 / 015,9 2 30 38 (L-15) 20 20 20 3 × 2,5 2 × 0,75 (s 607 × 390 45 58 993 × 421 × 804 1022 × 480 × 835	1,11 Φ9,52 / 015,9 2 30 38 (L-15) 20 20 3×4 helded cable) 607 × 390 47 60 993 × 421 × 804 1022 × 480 × 835	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3 × 4 607 × 390 50 61 993 × 421 × 804 1022 × 480 × 835
empressor an efrigerant ipe connections laximum height ifference linimal wire pcs an ontrol cables: indo racket spacing ound pressure lew ound power level et dimensions ross dimensions	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor d dimension of cords* boor unit to outdoor unit rel	GWP Quantity Quantity Unit wnit W1 × D W1 × D W1 × D	TCO_seq mm m m g/m m pcs x mm² mm dB(A) dB(A) mm kg	1,65 1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3 × 2,5 	1,11 09,52 / 015,9 2 30 38 (L-15) 20 20 3 × 2,5 2 × 0,75 (s 607 × 390 45 58 993 × 421 × 804 1022 × 480 × 835 59,5 / 63	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3x 4 hielded cable) 607 × 390 47 60 993 × 421 × 804 1022 × 480 × 885 59,5 / 63	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3×4 607 × 390 50 61 993 × 421 × 804 1022 × 480 × 835 59,5 / 63
Compressor Can Refrigerant Pipe connections daximum height Lifference dinimal wire pcs an	Minimum installation length Maximum installation length Additional amount of refrigeran Outdoor unit above the indoor Outdoor unit below the indoor d dimension of cords* boor unit to outdoor unit rel	GWP Quantity Quantity Unit wnit W1 × D W1 × D W1 × D	TCO_seq mm m g/m g/m pcsxmm² pcsxmm² pcsxmm² dB(A) dB(A) mm	$ \begin{array}{c} 1,65\\ 1,11\\ 0.9(52/015,9)\\ 2\\ 30\\ 38(L-15)\\ 20\\ 20\\ 20\\ 3 \times 2,5\\ 607 \times 390\\ 44\\ 56\\ 993 \times 421 \times 804\\ 1022 \times 480 \times 835\\ \end{array} $	1,11 09,52 / 015,9 2 30 38 (L-15) 20 20 20 3 × 2,5 2 × 0,75 (s 607 × 390 45 58 993 × 421 × 804 1022 × 480 × 835	1,11 Φ9,52 / 015,9 2 30 38 (L-15) 20 20 3×4 helded cable) 607 × 390 47 60 993 × 421 × 804 1022 × 480 × 835	1,11 Φ9,52 / Φ15,9 2 30 38 (L-15) 20 20 3 × 4 607 × 390 50 61 993 × 421 × 804 1022 × 480 × 835

(1) Seasonal energy efficiency class measured under average climate conditions.

(T) statute critics of the control your method water (second water) water temperature Notes: DHW - Domestic hot water, LWT - Leaving water temperature The sound pressure level is measured 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W55 ΔT=6; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02: 2014. The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than IΔn: 30mA *The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.

WE ARE FUTURE

AIRQU SERIES

Split, Monoblock **Rotenso Airmi Series**





Airmi Series **useful features**

Rotenso Airmi split and monoblock heat pumps are all about freedom of choice. Among these environmentally friendly, maintenance-free and cost-effective air-to-water heat pumps, you can easily find a unit that suits your individual aesthetic sense.



Modern design

The simple design perfectly fits into modern architectural designs.



Outdoor unit in 3 colours

Choose from 3 colours of outdoor units: grey, graphite and white.



Intuitive controller

Compact controller typically integrated with temperature sensor and Wi-Fi module is a powerful tool to control the heat pump operation.





32 climate curves

Weather compensation for smooth and almost instant adjustment of heat pump operation to changing outdoor conditions.



Dual controll

Use the controller to define and control two separate heating zones.



Disinfection

Heating water in the system to 70°C contributes to the effective elimination of Legionella bacteria.

Matching housing colour

Opt for Rotenso heat pumps to enjoy environmentally friendly and energy-efficient heat source. Choose Airmi Series to select the most appropriate condenser colour to match your facade. Powder-coated in white, grey and graphite, the condenser housings feature a modern, simple design.



Match heat pump colour to your facade at the stage of designing

We know how important the style of the house and landscaping are to our customers, so we made sure to offer you a range of colours to choose from.

Off-white, grey, graphite – these colours match the current trends in construction industry dominated by simple forms combined with natural materials, such as facade wood, stone stoneware or clinker bricks in natural shades.









TERO heat pump controller for the Rotenso Airmi system

Dedicated TERO controller

You can use the controller to:

- Check the heat pump operation status and operation mode
- Set temperature and operation mode
- Easily activate: silent mode, vacation mode, home vacation mode, eco mode
- Set up schedule and timer
- Activate second temperature control zone
- Monitor system status
- Control the device remotely
- Set the heating curve
- Display error codes
- Set language for messages
- Check operating parameters
- Set audible alarm

The controller with an integrated temperature sensor can act as an indoor thermostat.

Additional app **control**

You can use your tablet or smartphone with TUYA SMART app to control the Rotenso Airmi Split and Monoblock unit no matter where you are.

Use the application to:

- Set up unit operation mode
- Set up operating temperature for specific heating zone
- Activate silent mode
- Set up operation schedule
- Track system state
- View heat pump operation key parameters
- Display possible unit errors.



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Space A/C parameter

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& cooling me

Unit dimensions AIRMI SERIES

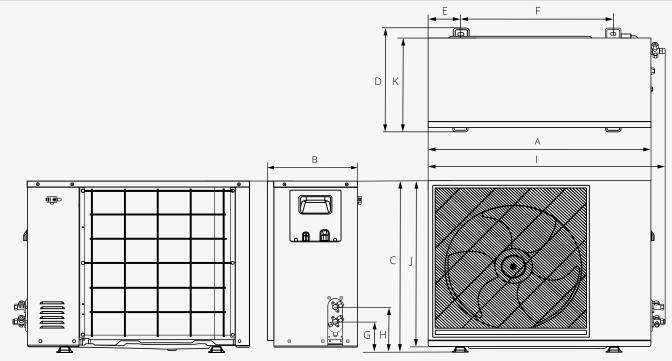
В

Е

Rotenso Airmi Split indoor unit 4/6/8/10/12/14/16 kW

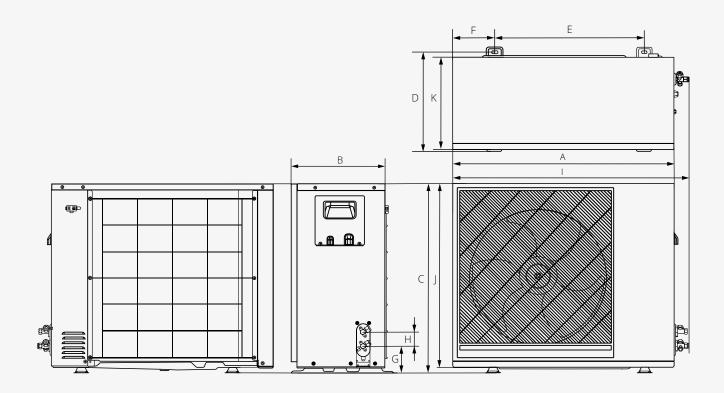
N	lodel	Power	Net dimensions (W×D×H) [mm]	A	В	c	D	E	F	Net weight [kg]
A	IS40X1i	4 kW	909 × 465 × 273	465	273	820	909	271	255	34 kg
A	IS60X1i	6 kW	909 × 465 × 273	465	273	820	909	271	255	34 kg
A	IS80X13i	8 kW	909 × 465 × 273	465	273	820	909	271	255	37 kg
A	IS100X13i	10 kW	909 × 465 × 273	465	273	820	909	271	255	37 kg
A	IS120X13i	12 kW	909 × 465 × 273	465	273	820	909	271	255	38 kg
A	IS140X13i	14 kW	909 × 465 × 273	465	273	820	909	271	255	44 kg
A	IS160X13i	16 kW	909 × 465 × 273	465	273	820	909	271	255	44 kg

Π



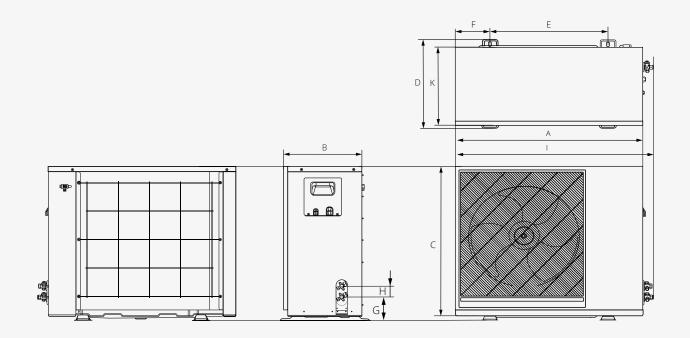
Rotenso Airmi Split outdoor unit 4/6/8 kW

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (S1×S2×G) [mm]	A	В	с	D	E	F	G	н	I	J	к	Net weight [kg]
AIS/W/B/G/40X1o	4 kW	971 × 425 × 703	624 × 425	913	370	703	425	135	624	126	60	971	681	375	56,0
AIS/W/B/G/60X1o	6 kW	971 × 425 × 703	624 × 425	913	370	703	425	135	624	126	60	971	681	375	56,0
AIS/W/B/G/80X1o	8 kW	971 × 425 × 703	624 × 425	913	370	703	425	135	624	126	60	971	681	375	56,0



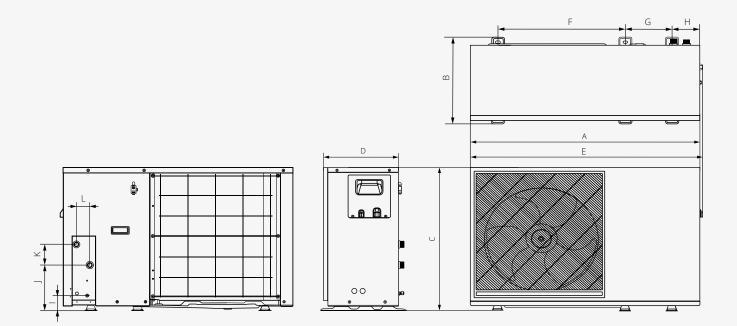
Rotenso Airmi Split outdoor unit 10/12 kW

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W1×W2×D) [mm]	A	В	с	D	E	F	G	н	I	J	к	Net weight [kg]
AIS/W/B/G/100X1o	10 kW	999 × 448 × 803	643 × 448	940	396	803	448	643	171	116	60	999	778	405	72,0
AIS/W/B/G/120X3o	12 kW	999 × 448 × 803	643 × 448	940	396	803	448	643	171	116	60	999	778	405	83,0



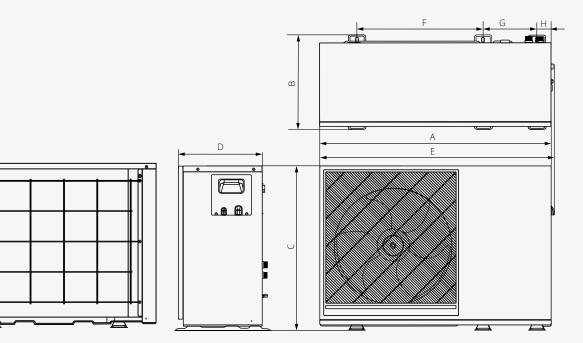
Jednostka zewnętrzna 14/16 kW Rotenso Airmi Split

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W1×W2×D) [mm]	A	В	с	D	E	F	G	н	I.	к	Net weight [kg]
AIS/W/B/G/140X3o	14 kW	1099 × 436 × 854	654 × 493	1040	436	832	429	654	193	128	60	1099	454	108,0
AIS/W/B/G/160X3o	16 kW	1099 × 436 × 854	654 × 493	1040	436	832	429	654	193	128	60	1099	454	108,0



Rotenso Airmi Monoblock outdoor unit 4/6/8 kW

	Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W1×W2×D) [mm]	А	В	с	D	E	F	G	н	I.	J	к	L	Net weight [kg]
1	AIM/W/B/G/40X1	4 kW	1125 × 425 × 703	624 × 229 × 425	1125	425	703	397	1137	640	239	86	73	317	65	57	78,5
	AIM/W/B/G/60X1	6 kW	1125 × 425 × 703	624 × 229 × 425	1125	425	703	397	1137	640	239	86	73	317	65	57	80,5
ł	AIM/W/B/G/80X1	8 kW	1125 × 425 × 703	624 × 229 × 425	1125	425	703	397	1137	640	239	86	73	317	65	57	82,5



Rotenso Airmi Monoblock outdoor unit 10/12/14/16 kW

Model	Power	Net dimensions (W×D×H) [mm]	Bracket spacing (W1×W2×D) [mm]	A	В	с	D	E	F	G	н	J	к	L	Net weight [kg]
AIM/W/B/G/100X1	10 kW	1135 × 488 × 803	640 × 239 × 448	1135	488	803	422	1149	640	239	86	252	65	57	99,0
AIM/W/B/G/120X3	12 kW	1135 × 488 × 803	640 × 239 × 448	1135	488	803	422	1149	640	239	86	252	65	57	115,0
AIM/W/B/G/140X3	14 kW	1203 × 493 × 860	654 × 280 × 493	1203	493	860	461	1217	654	280	75	179	55	58	140,0
AIM/W/B/G/160X3	16 kW	1203 × 493 × 860	654 × 280 × 493	1203	493	860	461	1217	654	280	75	179	55	58	140,0

Solutions **AIRMI SERIES**





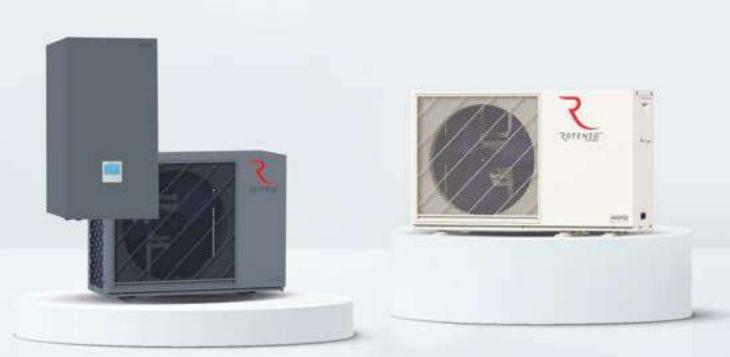


Rotenso Airmi Split is a brand new series of energyefficient split heat pumps with capacities ranging from 4 to 16 kW.



Rotenso Airmi Monoblock

is a brand new series of monoblock heat pumps with capacities ranging from 4 to 16kW.



Solution **AIRMI SPLIT**



Rotenso Airmi Split heat pump consists of an outdoor unit (condenser) and a hydronic module (so called hydrobox) for indoor installation. This solution is characterized by high resistance to freezing of the connection between the refrigeration circuits of outdoor and indoor units, even during prolonged power outages.

Another advantage of the Airmi Series is compact hydrobox that can be easily integrated in furniture or building structures, and sleek design of the outdoor unit available in three colours: off-white, grey and graphite. Modern design and high efficiency at low temperatures make Rotenso Airmi Split heat pumps a perfect choice for heating homes, stores, commercial premises and offices.

Standard equipment:

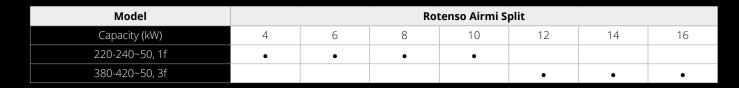
- 1. Indoor unit
- 2. Outdoor unit
- 3. Wired controller
- 4. DHW tank sensor
- 5. Plate heat exchanger
- 6. Flow meter
- 7. Diaphragm vessel
- 8. Pressure gauge
- 9. Circulation pump
- 10. Pressure relief valve
- 11. Purge valve
- 12. Y water filter







4-16 kW



1007

Indoor unit Hydrobox

AIS40X1i, AIS60X1i, AIS80X13i, AIS100X13i, AIS120X13i, AIS140X13i, AIS160X13i

Solution AIRMI MONOBLOCK



Rotenso Airmi Monoblock is a heat pump in which the refrigeration module and the hydronic module are contained in a single, compact unit housing. The monoblock heat pump is a perfect solution for owners who have no space or wish to install the hydrobox inside the building.

Heat pump housing is designed to provide an easy access to all its components, while operating parameters can be quickly modified and monitored in real time from the user interface. The state-of-the-art technology used in the Rotenso Airmi Series monoblock solutions ensures high efficiency at low temperatures. Simple design of these units, which come in three colour variants (off-white, grey and graphite), will please the enthusiasts of modern architecture. Another benefit of monoblock is quick and easy installation.

Standard equipment:

- 1. Outdoor unit
- 2. Wired controller
- 3. DHW tank sensor
- 4. Plate heat exchanger
- 5. Flow meter

140

- 6. Diaphragm vessel
- 7. Circulation pump
- 8. Pressure relief valve
- 9. Purge valve
- 10. Y water filter



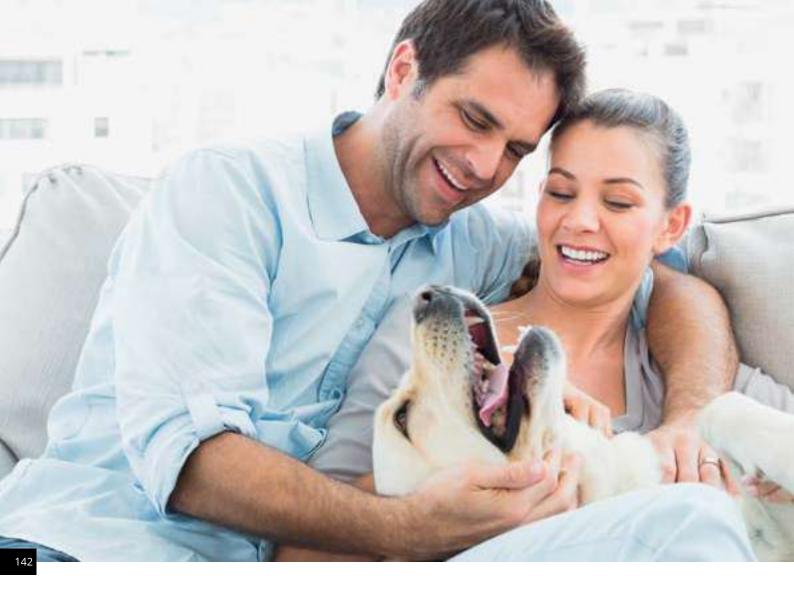




4-16 kW

Model			Roten	so Airmi Mon	oblock		
Capacity (kW)	4	6	8	10	12	14	16
220-240~50, 1f	٠	•	•	•			
380-420~50, 3f					•	•	•

heatpump.keym



Airmi Series **Split**

Rotenso Airmi Split heat pump consists of an outdoor unit and a sleek, compact hydronic module (so called hydrobox) for indoor installation. The highest energy efficiency class A+++ combined with excellent capacity at extremely low outdoor temperatures ensure cost-effective and reliable operation of this ecological heat source.

Prepared for operation at extremely low outdoor temperatures of down to -25°C, Rotenso Airmi pumps can heat the heating water up to 65°C to supply central heating systems with conventional radiators as well.

The **COP** of **4.89*** means that the amount of heating energy produced by the Rotenso Airmi heat pumps is nearly five times the amount of the consumed electric energy. Enhanced energy efficiency, unique fan blade design, and twin rotary DC compressor, ensure high overall efficiency of the Rotenso Airmi units.

The heat pump can be controlled by a wired controller or a TUYA SMART mobile app to make its daily use even more comfortable.



AIRMI SPLIT







Operating range down to -25°C

Supply water temperature of 65°C

Integrated Wi-Fi

module

Smart Grid functionality



Controller equipped with a temperature sensor





Control via mobile app





Controller equipped with a temperature sensor

The Rotenso Airmi Split heat pump can be controlled both by the wired controller and the TUYA SMART mobile app, whether you are staying at home or not.



Operating range down to -25°C

The pump is prepared to operate efficiently even at extreme outdoor temperatures down to -25°C. During the cold winter, it guarantees that supply water for central heating and domestic hot water is heated sufficiently.

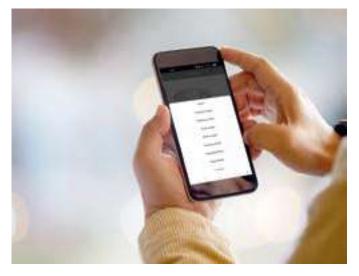


The Rotenso Airmi Split heat pump can be controlled both by the wired controller and the TUYA SMART mobile app, whether you are staying at home or not.



Smart Grid functionality

The heat pump is designed to work with the "Smart Grid". With this feature, the pump automatically turns on to store surplus energy from the photovoltaic (PV) system to make the most of the cheaper electricity tariff.



Control via mobile app

You can use your tablet or smartphone to control the Rotenso Airmi Split unit no matter where you are.



Water supply temperature of 65°C

If the heat pump is used to heat spaces where radiators are installed the temperature of the supply water in the system must be higher. Rotenso Airmi heat pumps can heat water up to 65°C.

Airmi Split 4-16 kW



Device features

tl₀

Efficient

heating

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Integrated electric

heater

چ G

Integrated Wi-Fi

module



Environmentally friendly refrigerant , R32

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	l

Twin rotary compressor



Silent mode



Weather operating modes (climate curve)



1. Refers to units AIS/W/B/G/40X1o and AIS/W/B/G/60X1o

2 heating control zones



مية

Energy efficiency

class at 35°C

A+++

⋧≣

Outdoor unit drip

tray heater

)_____

MON

Daily operation

schedule

Ø

Dedicated

application

C Compressor crankcase heater

Ċ



Configurable weekly schedules



Disinfection



Maximum COP 4,89⁽¹⁾



Easy installation and maintenance



Menu in English



Prepared to create a cascade system







Smart Grid functionality



Maximum installation length



Integrated temperature sensor



Modbus











Protocol



WIE

-25°C

Ő







Δ.

Indoor unit

drip tray





• •

Maximum leaving



8 8 8





split unit housing

up to 15m



Vacation

€0°C

of 60°C (in DHW mode)

water temperature

Technical specification

EAN product code				AIS40X1i	AIS60X1i	AIS80X13i	AIS100X13i	AIS120X13i	AIS140X13i	AIS160X13i
				5905567602825	5905567602832	5905567602849	5905567602856	5905567602863	5905567602870	5905567602887
Compatible outdoor	unit model			AIS/W/B/G/40X1o	AIS/W/B/G/60X1o	AIS/W/B/G/80X1o	AIS/W/B/G/100X1o	AIS/W/B/G/120X3o	AIS/W/B/G/140X3o	AIS/W/B/G/160X3o
Operation modes	Constanting		°C	7~25	7~25	7~25	Heating and cooling	7~25	7~25	7~25
Leaving water	Space cooling Space heating		°C	25~65	25~65	25~65	7~25 25~65	25~65	25~65	25~65
temperature	DHW (tank)		°C	25 65	25~60	25~60	25~60	25~60	25~60	25~60
Power supply	Difficulty		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	380-415~50, 3f	380-415~50, 3f	380-415~50, 3f	380-415~50, 3f	380-415~50, 3f
Rated input			W	3090	3090	9090	9090	9090	9090	9090
Operating current			A	13,9	13,9	13,9	13,9	13,9	13,9	13,9
Sound power level			dB	42	42	42	42	42	42	42
	Power supply		V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	380-415~50, 3f	380-415~50, 3f	380-415~50, 3f	380-415~50, 3f	380-415~50, 3f
Electric heater	Number of heating stages		pcs	1	1	3	3	3	3	3
Lieutic fiebtei	Power		kW	3	3	9	9	9	9	9
	Maximum operating curre		A	13,6	13,6	13,6	13,6	13,6	13,6	13,6
Net dimensions		WxDxH	mm	909 × 465 × 273	909 × 465 × 273	909 × 465 × 273	909 × 465 × 273	909 × 465 × 273	909 × 465 × 273	909 × 465 × 273
Gross dimensions		W×D×H	mm	960 × 525 × 345	960 × 525 × 345	960 × 525 × 345	960 × 525 × 345	960 × 525 × 345	960 × 525 × 345 44 / 49	960 × 525 × 345 44 / 49
Net weight / Gross w			kg	34/38	34/38	37 / 41	37 / 41	38 / 43		
	Water connections Pressure relief valve		inch MPa	Ф33 0,5	Φ33 0,5	Ф33 0,5	Φ33 0,5	Φ33 0,5	Φ33 0,5	Φ33 0,5
	Condensate drain		mm	Φ12,7	Φ12,7	Φ12,7	Φ12,7	Φ12,7	Φ12,7	Φ12,7
		Total volume	1	5	5	5	5	5	5	5
		Actual volume	1	2	2	2	2	2	2	2
Water circuit	Expansion tank	Maximum pressure	MPa	0,5	0,5	0,5	0,5	0,5	0,5	0,5
		Initial pressure	MPa	0,15	0,15	0,15	0,15	0,15	0,15	0,15
		Туре					PHE / plate heat exchanger			
	Heat exchanger	Minimum flow	l/min	10	10	10	10	10	10	10
	Water pump head		m	9	9	9	9	9	9	9
	Water pump type			DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
Refrigerant circuit	Liquid / Gas		mm	Φ6,35 / Φ15,88	Φ6,35 / Φ15,88	Ф9,52 / Ф15,88	Φ9,52 / Φ15,88	Φ9,52 / Φ15,88	Φ9,52 / Φ15,88	Φ9,52 / Φ15,88
Minimal wire pcs and	d dimension of cords*		pcs × mm²	3 × 2,5	3 × 2,5	5 × 2,5	5 × 2,5	5 × 2,5	5 × 2,5	5 × 2,5
Control cables: indoc	or unit to outdoor unit		pcs × mm ²				2 × 0,75 (shielded cable)			
Outdoor unit mode	el			AIS/W/B/G/40X1o	AIS/W/B/G/60X1o	AIS/W/B/G/80X1o	AIS/W/B/G/100X1o	AIS/W/B/G/120X3o	AIS/W/B/G/140X3o	AIS/W/B/G/160X3o
EAN product code		White (W)		5905567602757	5905567602764	5905567602771	5905567602788	5905567602795	5905567602801	5905567602818
EAN product code		Graphite (B)		5905567602610	5905567602627	5905567602634	5905567602641	5905567602658	5905567602665	5905567602672
EAN product code		Grey (G)		5905567602689	5905567602696	5905567602702	5905567602719	5905567602726	5905567602733	5905567602740
Compatible indoor u	init model			AIS40X1i	AIS60X1i	AIS80X13i	AIS100X13i	AIS120X13i	AIS140X13i	AIS160X13i
Power supply			V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
	Capacity		kW	4,20	6,00	7,90	9,70	12,10	14,30	16,20
Heating (A7/W35)	Rated input		kW	0,86	1,23	1,75	2,10	2,68	3,10	3,67
((0)1133)	COP			4,89	4,89	4,52	4,61	4,52	4,61	4,41
Heating	Capacity		kW	4,10	6,10	8,30	9,90	11,60	14,50	16,20
(A7/W45)	Rated input		kW	1,18	1,70	2,41	2,83	3,66	3,89	4,48
	COP			3,47	3,58	3,45	3,48	3,17	3,72	3,62
Heating	Capacity		kW	4,00	6,20	8,00	9,90	11,70	14,10	16,20
(A7/W55)	Rated input		kW	1,65	2,18	2,96	3,58	4,30	4,52	5,59
	COP			2,42	2,84	2,70	2,77	2,72	3,12	2,90
Cooling	Capacity		kW kW	4,20	6,20	8,10	10,30	12,10	13,50	14,90
(A35/W18)	Rated input EER		KVV	0,78	1,29 4,81	1,76	2,25 4,58	2,99 4,04	3,75	4,38
	Capacity		kW	4,20	6,00	7,70	9,60	10,90	12,70	14,00
Cooling	Rated input		kW	1,35	2,04	2,77	3,26	4,09	4,98	5,71
(A35/W7)	EER			3,12	2,94	2,78	2,94	2,66	2,55	2,45
	SCOP ⁽¹⁾			4,88	4,90	4,61	4,82	4,73	4,98	4,87
Seasonal energy	Rated heat output		kW	4,0	5,9	7,1	8,9	11,3	13,2	14,4
efficiency	Seasonal energy efficiency ra	tio (ηS)	96	192	193	177	190	186	196	192
LWT at 35°C	Annual energy consumption		kWh	1693	2488	3249	3814	4949	5470	6095
	Seasonal space heating ene	rgy efficiency class ⁽¹⁾		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	SCOP (1)			3,40	3,36	3,20	3,21	3,47	3,49	3,69
Seasonal energy	Rated heat output		kW	5,0	5,6	7,3	7,8	10,7	13,0	13,0
efficiency	Seasonal energy efficiency ra		96	133	131	126	126	136	136	144
LWT at 55°C	Annual energy consumption		kWh	3038	3443	4667	4992	6353	7687	7302
	Seasonal space heating ene	rgy efficiency class (1)		A++	A++	A++	A++	A++	A++	A++
	LWT at 7°C			5,33	5,27	5,23	5,12	5,65	5,39	5,23
SEER	LW/T at 100C			8,29	8,34	8,19 B20	8,23 B20	9,01 B16	7,71 B16	7,78 B16
SEER	LWT at 18°C	reaker with head-and a						D10	BID	DIO
Minimum rated curre	LWT at 18ºC ent of the overcurrent circuit b	1	A	B16	B16			DC		
Minimum rated curre		Туре	A	B16	816		in rotary inverter compressor	DC		
		Туре Туре	A			Tw	in rotary inverter compressor Brushless DC motor / BLDC		1.84	1.84
Minimum rated curre Compressor		Type Type Quantity	A	1,40	1,40	Tw 1,50	in rotary inverter compressor Brushless DC motor / BLDC 1,60	1,75	1,84 832	1,84 R32
Minimum rated curre Compressor		Type Type Quantity Type	A	1,40 R32	1,40 R32	Tw 1,50 R32	in rotary inverter compressor Brushless DC motor / BLDC 1,60 R32	1,75 R32	R32	R32
Minimum rated curre Compressor		Type Type Quantity Type GWP		1,40 R32 675	1,40 R32 675	Tw 1,50 R32 675	in rotary inverter compressor Brushless DC motor / BLDC 1,60 R32 675	1,75 R32 675	R32 675	R32 675
Minimum rated curre Compressor Fan		Type Type Quantity Type	A kg TCO,eq	1,40 R32	1,40 R32	Tw 1,50 R32	in rotary inverter compressor Brushless DC motor / BLDC 1,60 R32	1,75 R32	R32	R32
Minimum rated curre Compressor Fan		Type Type Quantity Type GWP	kg	1,40 R32 675 1,40	1,40 R32 675 1,40	Tw 1,50 R32 675 1,50	n rotary inverter compresso Brushless DC motor / BLDC 1,60 R32 675 1,60	1,75 R32 675 1,75	R32 675 1,84	R32 675 1,84
Minimum rated curre Compressor Fan	nt of the overcurrent circuit b	Type Type Quantity Type GWP Quantity	kg TCO2eq	1,40 R32 675 1,40 0,945	1,40 R32 675 1,40 0,945	Tw 1,50 R32 675 1,50 1,013	in rotary inverter compressor Brushless DC motor / BLDC 1,60 R32 675 1,60 1,080	1,75 R32 675 1,75 1,181	R32 675 1,84 1,242	R32 675 1,84 1,242
Minimum rated curre Compressor Fan	Liquid / Gas	Type Type Quantity Type GWP Quantity	kg TCO ₂ eq mm	1,40 R32 675 1,40 0,945 Φ6,35 / Φ15,88	1.40 R32 675 1.40 0,945 Φ6,35 / Φ15,88	Tw 1,50 R32 675 1,50 1,013 Φ9,52 / Φ15,88	in rotary inverter compresso Brushless DC motor / BLDC 1,60 R32 675 1,60 1,080 Φ9,52 / Φ15,88	1,75 R32 675 1,75 1,181 Φ9,52 / Φ15,88	R32 675 1,84 1,242 Ф9,52 / Ф15,88	R32 675 1,84 1,242 Φ9,52 / Φ15,88
Minimum rated curre Compressor Fan Refrigerant	Liquid / Gas Minimum installation length Additional amount of refrige	Type Type Quantity Type GWP Quantity	kg TCO ₂ eq mm m m	1,40 R32 675 1,40 0,945 Φ6,35 / Φ15,88 3 15	1,40 R32 675 1,40 0,945 Φ6,35 / Φ15,88 3 15	Tw 1,50 R32 675 1,50 1,013 Φ9,52/Φ15,88 3 15	n rotary inverter compresso Brushless DC motor / BLDC 1,60 R32 675 1,60 1,080 Φ9,52 / Φ15,88 3 15	1,75 R32 675 1,75 1,181 Φ9,52 / Φ15,88 3 15	R32 675 1,84 1,242 Φ9,52 / Φ15,88 3 15	R32 675 1,84 1,242 Φ9,52 / Φ15,88 3 15
Minimum rated curre Compressor Fan Refrigerant	Liquid / Gas Minimum installation length Additional amount of refrige meters	Type Type Quantity Type GWP Quantity ant for over 7,5 linear	kg TCOjeq mm m m g/m	1.40 R32 675 1.40 0.945 ¢6,35 / Φ15,88 3 15 20	1,40 R32 675 1,40 0,945 Φ6,35/Φ15,88 3 15 20	Tw 1,50 R32 675 1,50 1,013 Φ9,52/Φ15,88 3 15 38	n rotary inverter compresso Brushless DC motor / BLDC 1,60 R32 675 1,60 1,080 Φ9,52 / Φ15,88 3 15 38	1,75 R32 675 1,75 1,181 Φ9,52 / Φ15,88 3 15 38	R32 675 1,84 1,242 Φ9,52 / Φ15,88 3 15 38	R32 675 1,84 1,242 Φ9,52 / Φ15,88 3 15 38
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height	Liquid / Gas Minimum installation length Additional amount of refrige meters Outdoor unit above the indd	Type Type Quantity Type GWP Quantity ant for over 7,5 linear bor unit	kg TCO ₂ eq mm m m g/m	1,40 R32 675 1,40 0,945 Ф6,35 / Ф15,88 3 15 20 8	1,40 R32 675 1,40 0,945 \$\$(-915,88 3 15 20 8	Tw 1,50 R32 675 1,50 1,013 Φ9,52/Φ15,88 3 15 38 8 8	n rotary inverter compresso Brushless DC motor / BLDC 1.60 R32 675 1.60 1.080 0.952 / 015,88 3 1.5 38 8	1,75 R32 675 1,75 1,75 1,181 Φ9,52 / Φ15,88 3 15 38 8	R32 675 1.84 1.242 Ф9,52 / Ф15,88 3 15 38 8	R32 675 1.84 1.242 Ф9,52 / Ф15,88 3 15 38 8
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference	Liquid / Gas Minimum installation length Maximum installation length Additional amount of refrige meters Outdoor unit above the indo	Type Type Quantity Type GWP Quantity ant for over 7,5 linear bor unit	kg TCO,eq mm m g/m m m	1,40 R32 675 1,40 0,945 Φ6,35 / Φ15,88 3 15 20 8 8 8	1,40 R32 675 1,40 0,945 46,35/Φ15,88 3 15 20 8 8	Tw 1.50 R32 675 1.50 1.013 Ф9,52 / Ф15,88 3 15 38 8 8 8 8	n rotary inverter compresso Brushless DC motor / BLDC 1.60 R32 675 1,60 1.080 Ф9,52 / Ф15,88 3 15 38 8 8 8	1,75 R32 675 1,75 1,181 Φ9,52 / Φ15,88 3 15 38 8 8 8	R32 675 1.84 1.242 09.52 / 015.88 3 15 38 8 8 8	R32 675 1.84 1.242 Φ9,52 / Φ15,88 3 15 38 8 8
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs and	Liquid / Gas Minimum installation length Maximum installation length Additional amount of refrige meters Outdoor unit above the indt Outdoor unit above the indt d dimension of cords*	Type Type Quantity Type GWP Quantity ant for over 7,5 linear bor unit	kg TCO_jeq mm m g/m m pcs × mm²	1,40 R32 675 1,40 0,945 Ф6,35 / Ф15,88 3 15 20 8	1,40 R32 675 1,40 0,945 \$\$(-915,88 3 15 20 8	Tw 1,50 R32 675 1,50 1,013 Φ9,52/Φ15,88 3 15 38 8 8	n rotary inverter compresso Brushless DC motor / BLDC 1.60 R32 675 1.60 1.080 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 8 8	1,75 R32 675 1,75 1,75 1,181 Φ9,52 / Φ15,88 3 15 38 8	R32 675 1.84 1.242 Ф9,52 / Ф15,88 3 15 38 8	R32 675 1.84 1.242 Φ9,52 / Φ15,88 3 15 38 8
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs and Control cables: indooc	Liquid / Gas Minimum installation length Maximum installation length Additional amount of refrige meters Outdoor unit above the indo	Type Type Quantity Type Quantity Type GWP Quantity Type Type GWP Quantity Type Type Type Type Type Type Type Typ	kg TCO,eq mm m g/m g/m m m pcs × mm ² pcs × mm ²	1,40 R32 675 1,40 0,945 06,35 / 015,88 3 15 20 8 8 8 3 × 2,5	1,40 R32 675 1,40 0,945 Φ6,35/Φ15,88 3 15 20 8 8 3×25	Tw 1,50 R32 675 1,50 1,013 Φ9,52/Φ15,88 3 15 38 8 8 8 8 8 8 3 × 4	n rotary inverter compresso Brushless DC motor / BLDC 1,60 R32 675 1,60 1,080 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 8 3 × 4 2 × 0,75 (shielded cable)	1,75 R32 675 1,75 1,181 Φ9,52/Φ15,88 3 15 38 8 8 8 8 8 8 8 8 5 × 2,5	R32 675 1.84 1.242 09,52 / 015.88 3 15 38 8 8 8 8 8 8 5 × 2.5	R32 675 1,84 1,242 Φ9,527/Φ15,88 3 15 38 8 8 5 × 2,5
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs and Control cables: indoc Bracket spacing	Liquid / Gas Minimum installation length Additional amount of refrige meters Outdoor unit above the inde d dimension of cords* or unit to outdoor unit	Type Type Quantity Type GWP Quantity ant for over 7,5 linear bor unit	kg TCO ₂ eq mm m m g/m g/m g/m m pcs x mm ² pcs x mm ²	1,40 R32 675 1,40 0,945 Ф6,35 / Ф15,88 3 15 20 8 8 8 8 8 3 × 2,5 624 × 425	1,40 R32 675 1,40 0,945 \$ \$ 6,35 / \$ \$ 15 20 8 8 8 8 3 × 2,5 624 × 425	Tw 1,50 R32 675 1,50 1,013 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 8 3 × 4 624 × 425	n rotary inverter compresso Brushless DC motor / BLDC 1.60 R32 675 1.60 1.080 49,52 / 415,88 3 15 38 8 8 8 8 8 8 3 × 4 2 × 0,75 (chielded cable) 643 × 448	1,75 R32 675 1,75 1,181 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 8 8 5 × 2,5 643 × 448	R32 675 1.84 1.242 09,52/0415.88 3 15 38 8 8 8 8 8 8 5 × 2,5 654 × 493	R32 675 1.84 1.242 09,52 / 015,88 3 15 38 8 8 8 8 8 5 × 2.5 654 × 493
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs and Control cables: indoo Control cables: indoo Sound pressure level	Liquid / Gas Minimum installation length Additional amount of refrige meters Outdoor unit above the inde d dimension of cords* or unit to outdoor unit	Type Type Quantity Type Quantity Type GWP Quantity Type Type GWP Quantity Type Type Type Type Type Type Type Typ	kg TCO.eq mm m g/m m ps x mm ² pcs x mm ² mm dB(A)	1,40 R32 675 1,40 0,945 Φ6,35 / Φ15,88 3 15 20 8 8 8 3 × 2,5 624 × 425 44	1,40 R32 675 1,40 0,945 Ф6,35/Ф15,88 3 15 20 8 8 3 × 2,5 5 624 × 425 45	Tw 1.50 R32 675 1.50 1.013 Ф9.52 / Ф15.88 3 15 38 8 8 8 8 8 3 × 4 624 × 425 46	n rotary inverter compresso Brushless DC motor / BLDC 1.60 R32 675 1.60 1.080 Ф9.52 / Ф15.88 3 15 38 8 8 8 3 × 4 2 × 0,75 (shielded cable) 643 × 448 46	1,75 R32 675 1,75 1,181 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 8 5 × 2.5 643 × 448 46	R32 675 1.84 1.242 09.52 / 015.88 3 15 38 8 8 8 8 8 8 8 8 5 × 2.5	R32 675 1,84 1,242 Ø9,52 / Ф15,88 3 15 38 8 8 5 × 2,5 654 × 493 54
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs and Control cables: indoc Bracket spacing Sound pressure level	Liquid / Gas Minimum installation length Additional amount of refrige meters Outdoor unit above the inde d dimension of cords* or unit to outdoor unit	Type Type Quantity Type Quantity GWP Quantity ant for over 7,5 linear oor unit W1 × D	kg TCO_qq mm m g/m m pcs x mm² pcs x mm² mm dB(A)	1,40 R32 675 1,40 0,945 Φ6,35 / Φ15,88 3 15 20 8 8 3 × 2,5 624 × 425 44 56	1,40 R32 675 1,40 0,945 Ф6,35,4015,88 3 15 20 8 8 8 3 × 2,5 624 × 425 45 58	Tw R32 675 1,50 1,013 09,52,015,88 3 15 38 8 8 8 8 8 3×4 624×425 46 59	n rotary inverter compresso Brushless DC motor / BLDC 1.60 R32 675 1.60 1.080 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 3 × 4 2 × 0,75 (shielded cable) 643 × 448 46 60	1,75 R32 675 1,75 1,181 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 8 5 × 2,5 643 × 448 46 64	R32 675 1,84 1,242 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 8 5 × 2,5 654 × 493 50 65	R32 675 1,84 1,242 Φ9,52 / Φ15,88 3 15 38 8 8 8 8 8 8 5 × 2,5
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference Maximum height difference Bracket spacing Sound power level Net dimensions	Liquid / Gas Minimum installation length Additional amount of refrige meters Outdoor unit above the inde d dimension of cords* or unit to outdoor unit	Type Type Quantity Type GWP Quantity ant for over 7,5 linear bor unit W1 × D W × D × H	kg TCO_seq mm m g/m g/m m g/m pcs r.mm ² pcs r.mm ² pcs r.mm ² dB(A) dB(A)	1,40 R32 675 1,40 0,945 46,35 / 4015,88 3 15 20 8 8 3 × 2,5 624 × 425 44 56 971 × 425 × 703	1,40 R32 675 1,40 0,945 06,35 / 015,88 3 15 20 8 8 3 × 2,5 624 × 425 45 58 971 × 425 × 703	Tw 1,50 R32 675 1,50 1,013 Φ9,52/Φ15,88 3 15 38 8 8 8 8 8 8 3×4 624×425 46 59 971×425×703	n rotary inverter compresso Brushless DC motor / BLDC 1,60 R32 675 1,60 1,080 49,52 / 415,88 3 15 38 8 8 8 8 8 8 3 × 4 2 × 0,75 (shielded cable) 643 × 448 46 60 999 × 448 × 803	1,75 R32 675 1,75 1,181 09,52 / 015,88 3 15 38 8 8 8 8 8 8 5 × 2,5 643 × 448 46 64 999 × 448 × 803	R32 675 1.84 1.242 09,52 / 015.88 3 15 38 8 8 8 8 8 8 5 × 2,5 654 × 493 50 65 1099 × 436 × 854	R32 675 1,84 1,242 Φ9,52 / Φ15,88 3 15 38 8 8 5× 2.5 654 × 493 54 68 1099 × 436 × 854
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference Minimal wire pcs and Control cables: indoc Bracket spacing Sound pressure level Sound pressure level Sound pressure level Sound pressure level Sound pressure level Sound pressure level	Liquid / Gas Minimum installation length Additional amount of refrige meters Outdoor unit above the inde d dimension of cords* or unit to outdoor unit	Type Type Quantity Type Quantity GWP Quantity ant for over 7,5 linear oor unit W1 × D	kg TCO,eq mm m m g/m g/m g/m m pcs x mm ² pcs x mm ² dB(A) dB(A) dB(A)	1,40 R32 675 1,40 0,945 06,35 / 015,88 3 15 20 8 8 8 8 3 × 2,5 624 × 425 44 56 971 × 425 × 703 1025 × 425 × 865	1,40 R32 675 1,40 0,945 06,35 / 015,88 3 15 20 8 8 8 8 3 × 2,5 624 × 425 58 971 × 425 × 703 1025 × 425 × 865	Tw 1,50 R32 675 1,50 1,013 09,52/015,88 3 15 38 8 8 8 8 8 8 8 8 8 3 × 4 624 × 425 46 59 971 × 425 × 703 1025 × 425 × 865	n rotary inverter compresso Brushless DC motor / BLDC 1.60 R32 675 1.60 1.080 49,52 / 415,88 3 15 38 8 8 8 8 8 8 8 3 × 4 2 × 0.75 (sheledet cable) 643 × 448 46 60 999 × 448 × 803 1045 × 458 × 970	1.75 R32 675 1.75 1.181 0.952 / 0.15.88 3 15 38 8 8 8 8 5 × 2,5 643 × 448 46 64 999 × 448 × 803 1045 × 458 × 970	R32 675 1.84 1.242 09,522 (Ф15,88 3 15 38 8 8 8 8 8 8 5 × 2,5 654 × 493 50 65 1099 × 436 × 854 1165 × 495 × 1040	R32 675 1,84 1,242 09,52 / 015,88 3 15 38 8 5 × 2,5 654 × 493 54 68 1099 × 436 × 854 1165 × 495 × 1040
Minimum rated curre Compressor Fan Refrigerant Pipe connections Maximum height difference Maximum height difference Bracket spacing Sound power level Net dimensions	Liquid / Gas Minimum installation length Additional amount of refrige meters Outdoor unit above the inde d dimension of cords* or unit to outdoor unit	Type Type Quantity Type GWP Quantity ant for over 7,5 linear bor unit W1 × D W × D × H	kg TCO_seq mm m g/m g/m m g/m pcs r.mm ² pcs r.mm ² pcs r.mm ² dB(A) dB(A)	1,40 R32 675 1,40 0,945 46,35 / 4015,88 3 15 20 8 8 3 × 2,5 624 × 425 44 56 971 × 425 × 703	1,40 R32 675 1,40 0,945 06,35 / 015,88 3 15 20 8 8 3 × 2,5 624 × 425 45 58 971 × 425 × 703	Tw 1,50 R32 675 1,50 1,013 Φ9,52/Φ15,88 3 15 38 8 8 8 8 8 8 3×4 624×425 46 59 971×425×703	n rotary inverter compresso Brushless DC motor / BLDC 1,60 R32 675 1,60 1,080 49,52 / 415,88 3 15 38 8 8 8 8 8 8 3 × 4 2 × 0,75 (shielded cable) 643 × 448 46 60 999 × 448 × 803	1,75 R32 675 1,75 1,181 09,52 / 015,88 3 15 38 8 8 8 8 8 8 5 × 2,5 643 × 448 46 64 999 × 448 × 803	R32 675 1.84 1.242 09,52 / 015.88 3 15 38 8 8 8 8 8 8 5 × 2,5 654 × 493 50 65 1099 × 436 × 854	R32 675 1,84 1,242 Φ9,52 / Φ15,88 3 15 38 8 8 5 × 2,5 654 × 493 54 68 1099 × 436 × 854

(1) Seasonal energy efficiency class measured under average climate conditions.

Notes: DHV - Domestic hot water, LWT - Leaving water temperature The sound pressure level is measured 1m in front of the unit and (1+H)2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, $\Delta T=5$; A7W55 $\Delta T=6$; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 (2 20702: 2014. The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than Idn: 30mA *The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.

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Airmi Series **Monoblock**

Rotenso Airmi Monoblock is a heat pump in which the refrigeration module and the hydronic module are contained in a single, compact unit housing designed for outdoor installation to make the installation works easier and faster.

Rotenso Airmi Monoblock pump is the best solution for building owners who either have no space or do not want to install additional hydronic module inside the building.

Rotenso Airmi Monoblock heat pump features the highest energy efficiency class A+++.

COP coefficient, which is a ratio of useful heating power to the consumed electric energy, is **5.25*** in monoblock pumps, which means that the amount of heating energy that the Rotenso Airmi Monoblock produces is more than five times the amount of the consumed electric energy. Heat pump housing is designed to provide an easy access to all its components, while operating parameters can be quickly modified and monitored in real time from the user interface.

Rotenso Airmi Monoblock heat pump is equipped with an anti-freeze system. Modern design and high efficiency at low temperatures make Rotenso Airmi pumps a perfect choice for heating homes, stores, commercial premises and offices.

* COP 5,25 for model AIMW/B/G40X1



AIRMI MONO BLOCK







Operating range down to -25°C

Supply water temperature of 65°C

Integrated Wi-Fi

module

Smart Grid functionality



Controller equipped with a temperature sensor





Control via mobile app





Controller equipped with a temperature sensor

If the sensor detects a difference between the set temperature and the actual temperature in the room, the heat pump will automatically operate to reach the desired temperature inside the building



Supply water temperature of 65°C

If the heat pump is used to heat spaces where radiators are installed, temperature of the supply water in the system must be higher. Rotenso Airmi heat pumps can heat water up to 65°C.



Integrated Wi-Fi module

The Rotenso Airmi Monoblock pump can be controlled both by the wired controller and the TUYA SMART mobile whether you are staying at home or not



Smart Grid functionality

Rotenso Airmi heat pump is designed to work with the "Smart Grid". With this feature, the pump automatically turns on to store surplus energy from the photovoltaic (PV) system to make the most of the cheaper electricity tariff.



Operating range down to -25°C

Heat pumps are prepared for efficient operation even at extreme outdoor temperatures as low as -25°C. During the cold winter, they guarantee that supply water for central heating and domestic hot water are heated sufficiently.



Control via mobile app

You can use your tablet or smartphone to control the Rotenso Airmi Monoblock no matter where you are.

Airmi Monoblock

4-15 kW



Device features





friendly refrigerant , R32



Twin rotary compressor



heater

7

Vacation

mode

tl₀

Efficient

heating

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Configurable weekly schedules



Disinfection



Maximum leaving water temperature of 60°C

(in DHW mode)



Prepared to create

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Energy efficiency

class at 35°C

A+++

⋧≣

Outdoor unit drip

tray heater

EN

Menu

in English

a cascade system



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Multilanguage

menu

Modbus Protocol



COP

5,25

Maximum COP 5,25⁽¹⁾

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Easy installation

and maintenance

Energy efficiency class at 55°C A++



Compressor crankcase heater





sensor



Operating range down to -25°C



Silent mode



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65°C

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Supply water temperature of 65°C



Dedicated application

ΆM heatpump.keyman



Smart Grid functionality

A

A^s

MON









modes (climate curve)

Weather operating

1.1

2 heating control zones



Technical specification

Outdoor unit mod	del			AIM/W/B/G/40X1	AIM/W/B/G/60X1	AIM/W/B/G/80X1	AIM/W/B/G/100X1	AIM/W/B/G/120X3	AIM/W/B/G/140X3	AIM/W/B/G/160X3
EAN product code		White (W)		5905567602542	5905567602559	5905567602566	5905567602573	5905567602580	5905567602597	5905567602603
EAN product code		Graphite (B)		5905567602405	5905567602412	5905567602429	5905567602436	5905567602443	5905567602450	5905567602467
EAN product code		Grey (G)		5905567602474	5905567602481	5905567602498	5905567602504	5905567602511	5905567602528	5905567602535
Power supply			V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
Heating	Capacity		kW	4,00	6,00	7,90	10,20	12,10	14,50	15,90
(A7/W35)	Rated input		kW	0,75	1,17	1,76	2,04	2,57	2,99	3,42
	COP			5,25	5,13	4,50	5,01	4,70	4,84	4,65
Heating	Capacity		kW	4,20	6,00	8,30	10,20	12,10	14,50	15,90
Heating (A7/W45)	Rated input		kW	1,11	1,63	2,61	2,79	3,36	3,89	4,63
	COP			3,77	3,70	3,18	3,65	3,60	3,72	3,43
Uniting	Capacity		kW	4,10	6,10	7,70	9,60	12,30	13,80	15,80
Heating (A7/W55)	Rated input		kW	1,46	2,13	2,98	3,22	4,44	4,52	6,12
((()))))	COP			2,84	2,86	2,58	2,98	2,77	3,12	2,58
	Capacity		kW	4,00	6,20	8,20	10,10	11,90	14,10	15,70
Cooling (A35/W18)	Rated input		kW	0,77	1,26	1,75	2,42	2,72	3,10	4,03
(ASS/1110)	EER			5,19	4,91	4,65	4,14	4,36	4,56	3,90
	Capacity		kW	4,30	6,30	7,60	8,80	11,60	14,30	16,00
Cooling	Rated input		kW	1,32	1,99	2,55	2,97	4,14	5,11	6,12
(A35/W7)	EER			3,24	3,14	2,97	2,96	2,80	2,80	2,61
	SCOP (1)			4,96	5,05	4,62	4,86	4,77	4,67	4,87
	Rated heat output		kW	4,0	6,0	7,5	9,2	11,3	13,2	14,9
Seasonal energy efficiency	Seasonal energy efficiency	ratio (nS)	96	201	199	183	206	188	184	192
LWT at 35°C	Annual energy consumptio		wh	1617	2455	3529	3617	4872	5821	6326
	Seasonal space heating er			A+++	A+++	A+++	A+++	4072 A+++	A+++	A+++
	SCOP (1)	ier 6y eniciency Class		3,47	3,52	3,32	3,51	3,65	3,62	3,60
Seasonal energy	Rated heat output		kW	5,00	5,80	6,70	7,70	11,00	12,40	12,80
efficiency LWT at 55°C	Seasonal energy efficiency		96	136	138	131	139	141	142	143
Liff de 55 e	Annual energy consumption		kWh	2375	3521	4162	4453	6319	7054	7238
	Seasonal space heating er	nergy efficiency class ⁽¹⁾		A++	A++	A++	A++	A++	A++	A++
SEER	LWT at 7ºC			5,15	5,27	5,17	4,66	5,45	5,59	5,38
	LWT at 18ºC			8,56	8,77	8,31	8,23	8,29	8,33	8,26
Minimum rated curr	rent of the overcurrent circui	t breaker with breaker type	A	B32	B32	B32	B32	B25	B25	B25
Compressor		Туре				Twi	in rotary inverter compresso	r DC		
Fan		Туре					Brushless DC motor / BLDC	-		
1 di i		Quantity		1	1	1	1	1	1	1
		Туре		R32	R32	R32	R32	R32	R32	R32
Defrigerent		GWP		675	675	675	675	675	675	675
Refrigerant		0	kg	1,03	1,03	1,3	1,5	1,75	2,1	2,1
		Quantity	TCO ₂ eq	0,695	0,695	0,878	1,013	1,181	1,417	1,417
Minimal wire pcs an	nd dimension of cords*		pcs × mm ²	3×6	3×6	3×6	3×6	5 × 4	5×4	5×4
Bracket spacing		W1 × W2 × D	mm	624 × 229 × 425	624 × 229 × 425	624 × 229 × 425	640 × 239 × 448	640 × 239 × 448	654 × 280 × 493	654 × 280 × 493
Sound pressure leve	el		dB(A)	44	45	46	46	46	50	54
Sound power level			dB(A)	56	58	59	60	64	65	68
Net dimensions		WxDxH	mm	1125 × 425 × 703	1125 × 425 × 703	1125 × 425 × 703	1135 × 488 × 803	1135 × 488 × 803	1203 × 493 × 860	1203 × 493 × 860
Gross dimensions		WxDxH	mm	1200 × 425 × 865	1200 × 425 × 865	1200 × 425 × 865	1260 × 488 × 982	1260 × 488 × 982	1285 × 495 × 1040	1285 × 495 × 1040
Net weight / Gross v	weight	II ADAII	kg	78,5 / 93,5	80,5 / 95,5	82,5 / 96	99 / 114	115 / 132	140 / 159	140 / 159
, , , , , , , , , , , , , , , , , , ,	Cooling / Heating		°C	-5~43 / -25~35	-5~43 / -25~35	-5~43 / -25~35	-5~43 / -25~35	-5~43 / -25~35	-5~43 / -25~35	-5~43 / -25~35
Operating outdoor temperature	DHW		°C	-5~437-25~35	-5~437-25~35	-5~437-25~35	-3~437-23~35	-5~437-25~35	-5~437-25~35	-5~437-25~35
Operation modes	DHW			-23-43	-2.343	-23-45	Heating and cooling	-23-45	-23-43	-23-43
Operation modes	Contraction		9/	7.05	7.25	7.95		7.25	7.05	7.05
Leaving water	Space cooling		°C °C	7~25	7~25	7~25	7~25	7~25	7~25	7~25
Leaving water				25~65	25~65	25~65	25~65	25~65		25~65
-	Space heating						25~60	25~60	25~60	25~60
temperature	DHW (tank)		°C	25~60	25~60	25~60				
temperature	DHW (tank) Power supply		°C V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	380-420~50, 3f	380-420~50, 3f	380-420~50, 3f
temperature	DHW (tank) Power supply Number of heating stages		°C V-Hz, Ø pcs	220-240~50, 1f 1	220-240~50, 1f 1	220-240~50, 1f 1	220-240~50, 1f	3	3	3
temperature	DHW (tank) Power supply Number of heating stages Power		°C V-Hz, Ø	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f	220-240~50, 1f			
temperature	DHW (tank) Power supply Number of heating stages		°C V-Hz, Ø pcs	220-240~50, 1f 1	220-240~50, 1f 1	220-240~50, 1f 1	220-240~50, 1f	3	3	3
temperature	DHW (tank) Power supply Number of heating stages Power		°C V-Hz, Ø pcs	220-240~50, 1f 1 3	220-240-50, 1f 1 3	220-240~50, 1f 1 3	220-240~50, 1f 1 3	3	3	3
temperature	DHW (tank) Power supply Number of heating stages Power Maximum operating curre		°C V-Hz, Ø pcs kW	220-240-50, 1f 1 3 13,6	220-240-50, 1f 1 3 13,6	220-240-50, 1f 1 3 13,6	220-240-50, 1f 1 3 13,6	3 9 13,6	3 9 13,6	3 9 13,6
temperature	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections		°C V-Hz, Ø pcs kW	220-240-50, 1f 1 3 13,6 Φ33	220-240-50, 1f 1 3 13,6 Φ33	220-240-50, 1f 1 3 13,6 Φ33	220-240-50, 1f 1 3 13,6 Φ33	З 9 13,6 ФЗЗ	З 9 13,6 ФЗЗ	З 9 13,6 ФЗЗ
temperature	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections Pressure relief valve		°C V-Hz, Ø pcs kW mm (inch) MPa	220-240~50, 1f 1 3 13,6 Φ33 0,5	220-240-50, 1f 1 3 13,6 ФЗЗ 0,5	220-240-50, 1f 1 3 13,6 Ф33 0,5	220-240-50, 1f 1 3 13,6 Ф33 0,5	3 9 13,6 Φ33 0,5	3 9 13,6 Φ33 0,5	З 9 13,6 Ф33 0,5
temperature	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections Pressure relief valve Condensate drain	nt	°C V-Hz, Ø pcs kW mm (inch) MPa mm	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2*	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2"	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2"	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2*	3 9 13,6 0,5 1/2"	3 9 13,6 0,5 1/2"	3 9 13,6 0,5 1/2"
temperature	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections Pressure relief valve	nt Total volume	°C V-Hz, Ø pcs kW mm (inch) MPa mm I	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2" 5	220-240-50, 1f 1 3 13,6 Φ33 0,5 1/2" 5	220-240-50, 1f 1 3 13,6 Φ33 0,5 1/2* 5	220-240-50, 1f 1 3 13,6 Φ33 0,5 1/2* 5	3 9 13,6 0,5 1/2" 5	3 9 13,6 0,5 1/2* 5	3 9 13,6 Φ33 0,5 1/2" 5
temperature	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections Pressure relief valve Condensate drain	nt Total volume Actual volume Maximum pressure	°C V-Hz, Ø pcs kW mm (inch) MPa I I MPa	220-240-50, 1f 1 3 13,6 0,5 0,5 1/2" 5 2 0,5	220-240-50, 1f 1 3 13,6 0,5 1/2" 5 2 0,5	220-240-50, 1f 1 3 13,6 0,5 1/2* 5 2 0,5	220-240-50, 1f 1 3 13,6 0,5 1/2* 5 2 0,5	3 9 13.6 433 0.5 1/2* 5 2 2 0.5	3 9 13,6 0,5 1/2" 5 2 0,5	3 9 13,6 0,5 1/2* 5 2 0,5
Learning water temperature Electric heater Water circuit	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections Pressure relief valve Condensate drain	nt Total volume Actual volume Maximum pressure Initial pressure	°C V-Hz, Ø pcs kW mm (inch) MPa mm I I	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2" 5 2	220-240-50, 1f 1 3 13,6 0,3 0,5 1/2" 5 2	220-240-50, 1f 1 3 13,6 433 0,5 1/2" 5 2	220-240-50, 1f 1 3 13,6 0,5 1/2* 5 2 0,5 0,5 0,5 0,5	3 9 13.6 0.5 1/2" 5 2 0.5 0.5 0,15	3 9 13,6 0,5 1/2" 5 2	3 9 13,6 0,5 1/2* 5 2
temperature Electric heater	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections Pressure relief valve Condensate drain	Attual volume Actual volume Maximum pressure Initial pressure Type	°C V-Hz, Ø pcs kW mm (inch) MPa I I MPa MPa	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2" 5 2 0,5 0,15	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2" 5 2 0,5 0,15	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2* 5 2 0,5 0,15	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2* 5 2 0,5 0,15 PHE / plate heat exchanges	3 9 13,6 433 0.5 1/2" 5 2 0.5 0,15	3 9 13.6 0.5 1/2* 5 2 0.5 0.15	3 9 13,6 0,5 1/2* 5 2 0,5 0,15
temperature Electric heater	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger	nt Total volume Actual volume Maximum pressure Initial pressure	°C V-Hz, Ø pcs kW mm (inch) MPa mm I I I I MPa MPa Vmin	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2* 5 2 0,5 0,15 10	220-240-50, 1f 1 3 13,6 433 0,5 1/2* 5 2 0,5 0,5 0,5 0,15 10	220-240-50, 1f 1 3 13,6 433 0,5 1/2* 5 2 0,5 0,5 0,5 0,15 10	220-240-50, 1f 1 3 13,6 433 0,5 1/2* 5 2 0,5 0,15 PHE / plate heat exchangee 10	3 9 13,6 433 0,5 1/2* 5 2 0,5 0,5 0,15	3 9 13.6 0.5 1/2* 5 2 0.5 0.15 10	3 9 13,6 Φ33 0,5 1/2" 5 2 2 0,5 0,15 10
temperature	DHW (tank) Power supply Number of heating stages Power Maximum operating curre Water connections Pressure reliel valve Condensate drain Expansion tank	Attual volume Actual volume Maximum pressure Initial pressure Type	°C V-Hz, Ø pcs kW mm (inch) MPa I I MPa MPa	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2" 5 2 0,5 0,15	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2" 5 2 0,5 0,15	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2* 5 2 0,5 0,15	220-240-50, 1f 1 3 13,6 Ф33 0,5 1/2* 5 2 0,5 0,15 PHE / plate heat exchanges	3 9 13,6 433 0.5 1/2" 5 2 0.5 0,15	3 9 13.6 0.5 1/2* 5 2 0.5 0.15	3 9 13,6 Ф33 0,5 1/2* 5 2 0,5 0,15

(1) Seasonal energy efficiency class measured under average climate conditions.

(1) desbuild integr entents) class integr (under temperature) Notes: DHV- Domesic hot water, UWT - Leaving water temperature The sound pressure level is measured 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W45, ΔT=5; A7W55 ΔT=6; relative humidity 65%. The figures specified above refer to the following standards: ENI4511; ENI4825; ENS0564; ENI2102; (EU) Np. 811/2013; (EU) No. 83/2013; Journal of Laws 2014 / C20702: 2014. The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than lΔn: 30mA *The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.

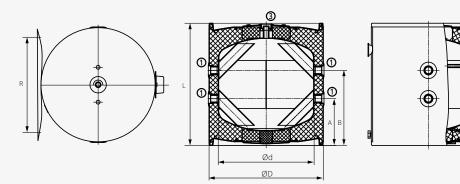
WE ARE FUTURE

DHW tanks Buffer tanks **Rotenso**



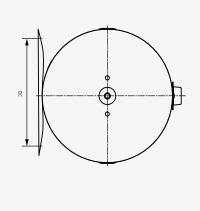


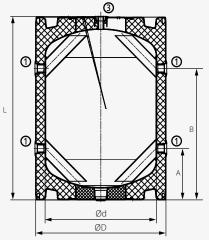
Tank dimensions THERMOS STORE / STORE PLUS

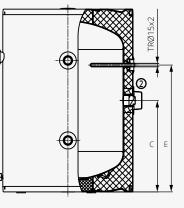




6	Model	Volume / Actual volume [l]	Heigh [mm]	External diameter [mm]	A	В	с	d	D	E	L	R	1	2	3	Net weight [kg]
	AQT50SBHA	50 / 50	561	524	215	345	265	440	524	365	561	300 - 310 350 - 372 432 - 468	G 1" inner	G 1 1/2" inner	G 1/2" inner	25

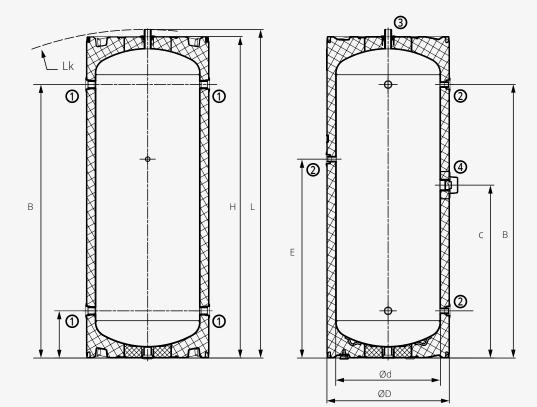






Rotenso Thermos Store buffer tanks 100l

Model	Volume / Actual volume [l]	Heigh [mm]	External diameter [mm]	A	В	c	d	D	E	L	R	1	2	3	Net weight [kg]
AQT100SBHA	120/100	803	584	225	575	400	500	584	555	803	300 - 310 350 - 372 432 - 468	G 1" inner	G 1 1/2" inner	G 1/2" inner	41

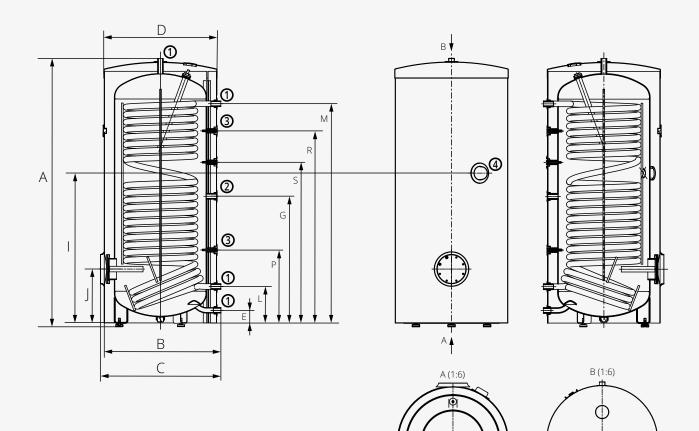


Rotenso Thermos Store Plus DHW tanks 250l

Model	Volume / Actual volume [l]	Heigh [mm]	External diameter [mm]	A	В	с	d	D	E	L	н	R	Lk	1	2	3	4	Net weight [kg]
AQT250SBHA	250 / 256	1568	584	228	1308	828	500	584	952	1570	1541	300 - 310 350 - 372 432 - 468	1605	G 1" inner	G 1/2" inner	G 1" external	G 1 1/2" inner	63



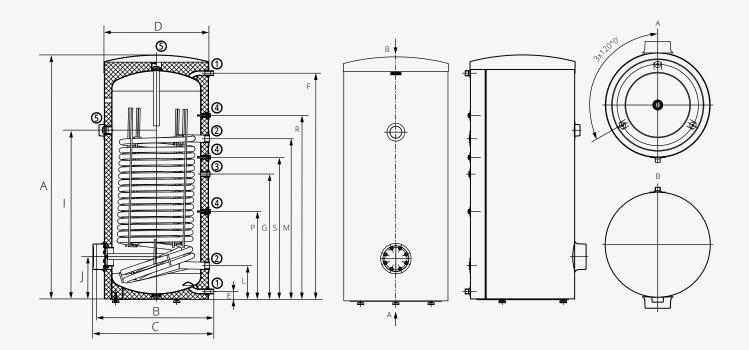
Tank dimensions **THERMOS CERAMIC**



Rotenso Thermos Ceramic DHW tanks 200-300l

1	2	3	4
3/4" external	1" external	3/4" inner	6/4" inner

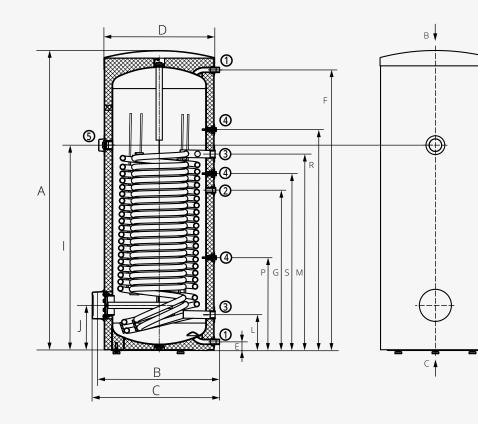
Model	Volume / Actual volume [l]	Heigh [mm]	External diameter [mm]	A	в	с	D	E	F	G	I	J	L	м	Р	R	s	Net weight [kg]
AQT200EC1A	200 / 208	1355	584	1355	660	710	584	75	1275	855	805	255	205	1145	350	915	645	102
AQT300EC1A	286 / 300	1558	670	1558	750	775	670	77	1579	760	895	325	219	1309	438	1148	937	133

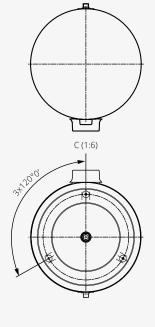


Rotenso Thermos Ceramic DHW tanks 400l

1	2	3	4	5
1" external	3/4" inner	5/4" inner	1/2" inner	6/4" inner

Model	Volume / Actual volume [l]	Heigh [mm]	External diameter [mm]	А	в	с	D	E	F	G	I	J	L	м	Р	R	s	Net weight [kg]
AQT400EC1A	400 / 352	1644	700	1644	812	852	700	55	1521	843	1138	288	228	1081	592	1237	956	190





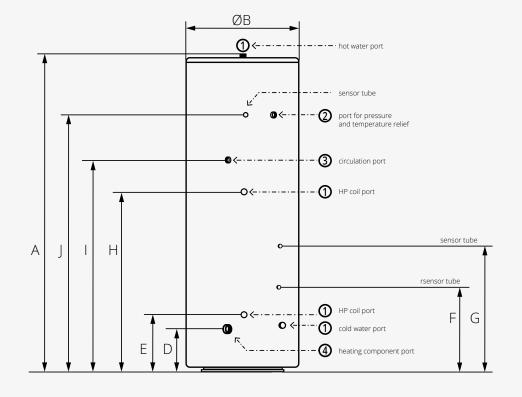
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Rotenso Thermos Ceramic DHW tanks 500l

1	2	3	4	5
1" external	3/4" inner	5/4" inner	1/2" inner	6/4" inner

Model	Volume / Actual volume [l]	Heigh [mm]	External diameter [mm]	A	В	с	D	E	F	G	I	J	L	м	Р	R	s	Net weight [kg]
AQT500EC1A	500 / 469	1914	700	1914	812	852	700	55	1790	1023	1310	288	228	1253	592	1409	1128	223

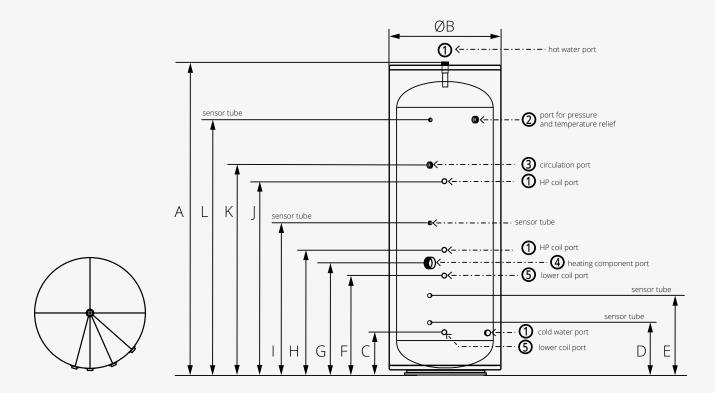
Tank dimensions THERMOS INOX THERMOS TWIN INOX THERMOS DUAL INOX



Rotenso Thermos Inox DHW tanks 200-500l

1	2	3	4
1"	1/2"	3/4" 1/2"	1 3/4"

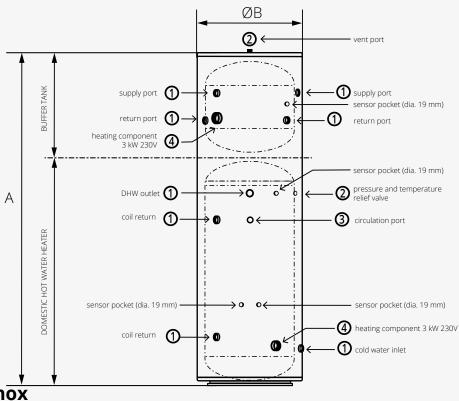
Model	Volume / Actual volume [l]	Heigh (mm)	External diameter [mm]	A	В	с	D	E	F	G	н	I	J	Net weight [kg]
AQT200iX1	200 / 189	1450	540	1450	540	196	211	261	451	701	911	981	1211	58
AQT300iX1	300 / 279	1600	600	1600	600	218	233	283	508	773	983	1153	1333	74
AQT400iX1	400 / 380	1570	710	1570	710	225	240	290	540	805	1190	1190	1290	81
AQT500iX1	500 / 481	1930	710	1930	710	225	240	290	540	910	1190	1190	1290	107



Rotenso Thermos Dual Inox DHW tanks 200-500l

1	2	3	4	5	
1″	1/2"	3/4" 1/2"	1 3/4"	3/4"	

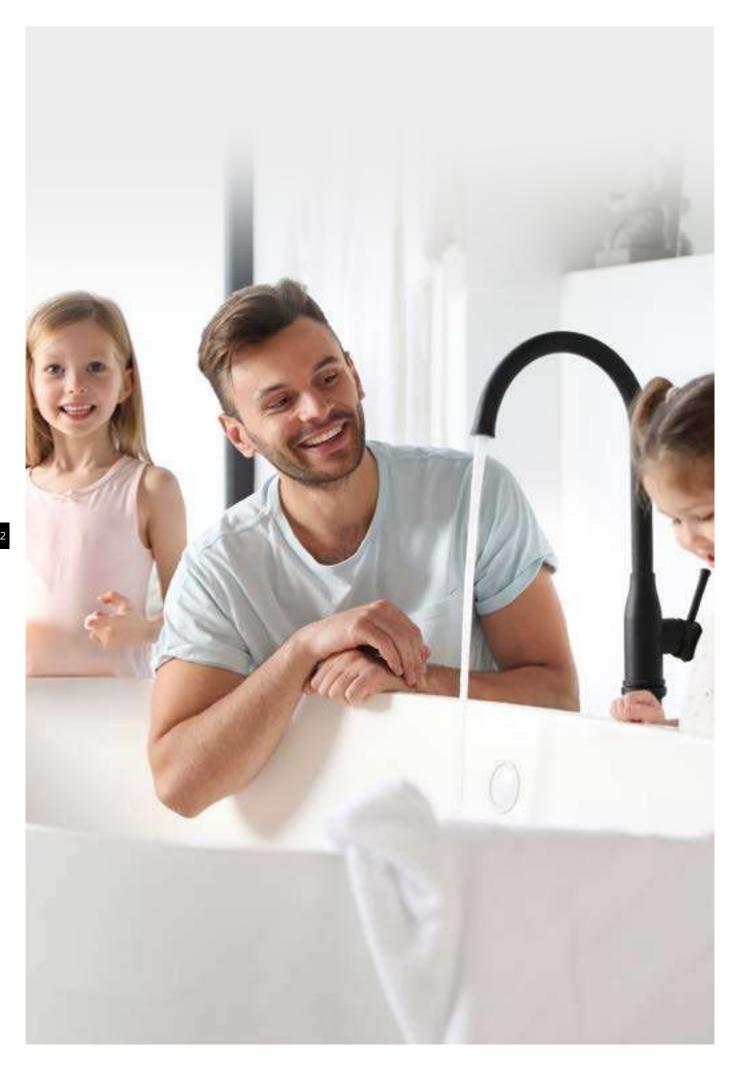
Model	Volume / Actual volume [l]	Heigh [mm]	External diameter [mm]	A	В	с	D	E	F	G	н	I	J	к	L	Net weight [kg]
AQT200iX2	200 / 186	1450	540	1450	540	196	246	386	486	536	586	791	1130	1136	1211	61
AQT300iX2	300 / 277	1600	600	1600	600	218	268	438	538	578	628	813	1300	1328	1333	77
AQT400iX2	400 / 378	1570	710	1570	710	255	275	375	415	465	590	950	1260	1285	1290	84
AQT500iX2	500 / 478	1930	710	1930	710	255	275	430	615	675	735	950	1630	1635	1640	110



Rotenso Thermos Twin Inox DHW tanks 200-300l

Model	Volume / Actual volume [l]	Heigh [mm]	External diameter [mm]	A	В	Net weight [kg]
AQT200 + 90iX1	200 + 90 / 189 + 88	1700	600	1700	600	61
AQT300 + 90iX1	300 + 90 / 279 + 88	2150	600	2150	600	77

1	2	3	4
1″	1/2"	3/4" 1/2"	1 3/4″



Solutions **Tanks**







Rotenso Thermos Store / Plus tanks to store heating water and refill the hydraulic system



Rotenso Thermos Ceramic

domestic hot water tank made of steel with ceramic enamel coating integrated with a single spiral coil.







Rotenso Thermos Inox Stainless steel tank to store domestic hot water.



Rotenso Twin Inox / Dual Inox

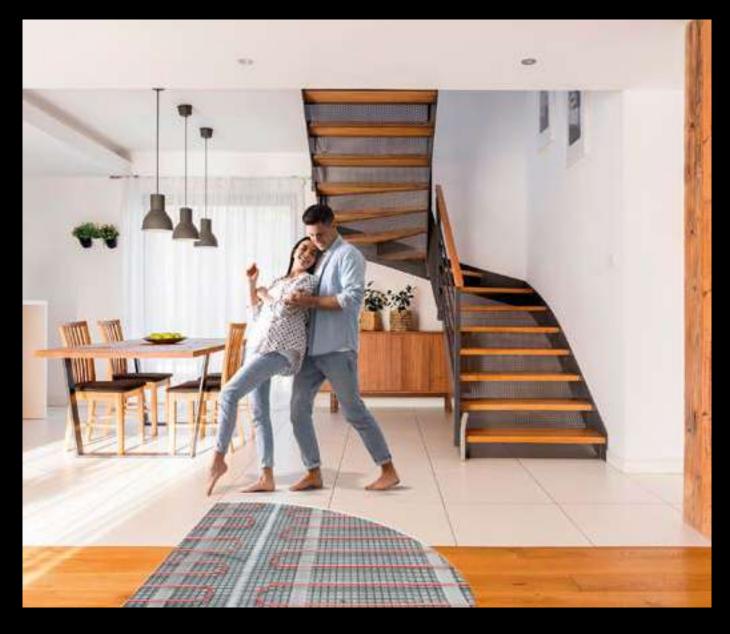
Rotenso Twin Inox is a DHW tank combined with a 90-liter buffer tank in a single housing. Rotenso Thermos Dual Inox is a DHW tank designed to work with the heat pump combined with an additional heat source.

Solution THERMOS STORE



The primary function of the buffer tank is to store heating water and to refill the hydraulic system. Buffer tank can work as a hydraulic coupling in the system if connected properly. 50 L and 250 L Rotenso Thermos Store buffer tanks are made of black steel and insulated with hard Polyurethane foam of excellent insulation properties.All of the components are enclosed in a powder-coated steel housing.







50 I

250 I

Model	Rotenso Thermos STORE						
Capacity / Useable capacity (I)	50 / 50	100 / 120	250 / 265				
Housing material		Polyurethane foam / black steel					
Tank material		steel					

Solution THERMOS CERAMIC



ERotenso's enameled DHW tanks are designed for long-term and cost-efficient operation. Intended for the preparation and storage of domestic hot water, they are designed to work with each series of the Rotenso heat pumps and more. Coils ensure a large heat exchange surface to quickly heat domestic water with minimal energy consumption. Polyurethane foam insulation provides high energy efficiency. The excellent insulation characteristics of these tanks help to reduce the energy losses during hot water storage.

Rotenso DHW tanks are made of hydraulic pressure-resistant steel with increased thickness and additional hygienic and anti-corrosion enamel coating on the inside. The high quality of nickel-free enamel combined with a magnesium anode guarantees the long life of the tanks. Tanks are equipped with inspection holes to provide easy access to remove sediment and sinches, quickly inspect the tank and perform maintenance works, which reduces overall operating costs.







200 - 500 l

Model	Rotenso Thermos CERAMIC						
Capacity / Usable capacity (I)	200 / 208	300 / 286	400 / 352	500 / 469			
Housing material	Polyurethane foam, artificial leather						
Tank material	Steel with ceramic enamel coating						

Solution THERMOS INOX



Tank designed to store domestic hot water. Tank body, ports and coils are made of 316 L stainless steel. As a result, they are durable and ensure long life of a tank.

There are three types of tanks available:

- Tanks with a single coil characterized by a large heat exchange surface designed for use with heat pumps;
- Tanks with a double coil, where the first coil is characterized by a large heat exchange surface designed for use with heat pumps and the other coil is designed to support alternative heat source (e.g. solar collectors, gas boiler);
- Tanks with a single coil characterized by a large heat exchange surface combined with a 90-liter buffer tank in a single housing.









Thermos INOX 200 - 500 I

Model	Rotenso Thermos INOX							
Capacity / Usable capacity (l)	200 / 189	300 / 279	400 / 380	500 / 481				
Housing material	Steel							
Tank material		Stainless steel						

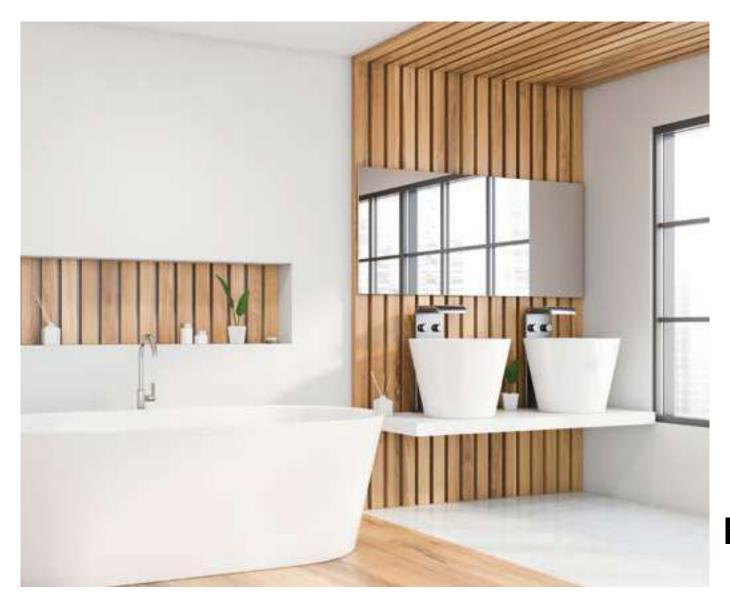
Solution THERMOS TWIN INOX / DUAL INOX



Rotenso Thermos Twin Inox is a domestic hot water tank equipped with a large surface coil and a 90-liter buffer tank combined in a single housing. It has a 3 kW electric heater and a pressure relief valve. The housing is made of stainless steel.

Rotenso Thermos Dual Inox is a domestic hot water tank equipped with a large surface coil designed to work with heat pumps and additional heat source. It is provided with the second coil to connect additional heat source, e.g. solar collectors or solid fuel boiler. It also has a 3 kW electric heater and a pressure relief valve. Tank body is made of stainless steel and insulated with hard and dense Polyurethane foam.





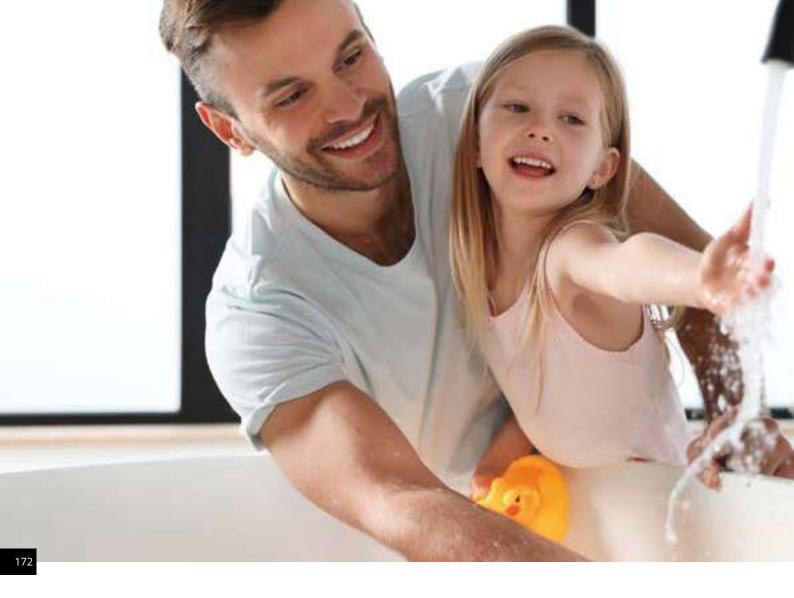


TWIN INOX 200+90 | / 300+90 |



DUAL INOX 200-500 I

Model	Rotenso Therm	Rotenso Thermos DUAL INOX						
Capacity (l)	200 + 90	300 + 90	200	300	400	500		
Usable capacity (l)	189 + 88	279 + 88	186	277	378	479		
Housing material	Steel							
Tank material			Stainless steel					



Buffer tanks

50 L and 250 L Rotenso Thermos Store buffer tanks are made of black steel and insulated with hard Polyurethane foam (42 mm thick) of excellent insulation properties. All of the components are enclosed in a powder-coated steel housing.

Designed for use in heating and cooling systems as a hydraulic coupling, Thermos Store buffer tanks are used to store excess energy generated by the associated heat source.

Heat accumulation feature of the buffer tanks integrated into the heating system increases the efficiency, and at the same time, the life of the associated heat source, such as air-to-water heat pump, by increasing the water system's charge accordingly. By ensuring the right amount of water in the system the heat buffer in heat pump systems also contributes to smooth operation of the heat pump, because heat accumulation reduces pump cycling to minimum to protect the heart of the entire cooling system – the compressor.



BUFFER TANKS



5-year

warranty





Energy efficiency class B/C

Stable and efficient heat pump operation











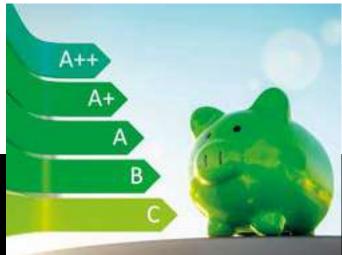
Stable and efficient **heat pump operation**

Buffer tank contributes in efficient and stable operation of the heat pump. It also ensures that stored heating water is used at the right time.



5-year warranty

Choose proven and reliable solutions. The tank is made of black steel insulated with Polyurethane foam and comes with a 5-year warranty.



Energy efficiency class B/C

The excellent insulating properties of 42 mm thick polyurethane hard foam layer guarantee high energy efficiency.

Thermos Store 50 - 250 I



Technical specification

Model			AQT50SBHA	AQT100SBHA	AQT250SBSA			
EAN product code			5905567602894	5905567602900	5905567602917			
	Capacity (class)	I	50	100	250			
	Colour		White	White	White			
	Tank material		Polyurethane foam / black steel	Polyurethane foam / black steel	Polyurethane foam / black steel			
	Housing material		Steel	Steel	Steel			
	Maximum pressure	bar	3	3	3			
Fank	Insulation thickness	mm	42	42	42			
	Maximum temperature	°C	90	90	90			
	Height	mm	561	803	1568			
	External diameter	mm	524	584	584			
	Net weight / Gross weight	kg	25 / 31,62	41 / 55,3	63 / 85,3			
	Heat pump input	thread inches	1" x 2	1" x 2	1" x 4			
	Heat pump output	thread inches	1" x 2	1" x 2	1" x 3			
Hydraulic	Heater connection	thread inches	1 1/2"	1 1/2"	1 1/2"			
connections	Upper connector - bleeding	bleeding thread inches	1"	1"	1"			
	Sensor connection	thread inches	Φ15	Φ15	Φ15			
	Water drain	thread inches		-				
Warranty	Tank	years	5	5	5			
nergy efficiency c	lass		В	В	C			
Vaintenance			Not required	Not required	Not required			
Static heat loss		W	31	41	88			
Optional accesso	ories / model			AGGE013				
EAN product code			5905567603266					
Product name			Electric heater					
Power kW			3					
Dimmension mm / inches / screw			6/4"/-					



Domestic hot water **tanks**

Rotenso's enameled DHW tanks are designed for long-term and cost-efficient operation. Intended for preparation and storage of domestic hot water, they are designed to work with each series of the Rotenso heat pumps.

Coils ensure a large heat exchange surface to quickly heat domestic water with minimal energy consumption. Polyurethane foam insulation provides high energy efficiency.

The excellent insulation characteristics of these tanks help to reduce losses during hot water storage. Rotenso DHW tanks are made of hydraulic pressure-resistant steel with increased thickness and additional hygienic and anti-corrosion enamel coating on the inside. The high quality of nickel-free enamel combined with a magnesium anode guarantees long life of the tanks.

Tanks are equipped with inspection holes to provide easy access to remove sediment and sinches, quickly inspect the tank and perform maintenance works, which reduces overall operating costs.



DHW TANKS



Crystal Enamel coating

5-YEAR WARRANTY

Steel with ceramic enamel coating, 5-year warranty



Stainless steel



Stainless steel, 12-year warranty

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Coating Crystal Enamel or Stainless steel

The inner surface of the Thermos Ceramic tank is made of a steel with anti-corrosion and hygienic enamel coating to ensure tank durability and high water quality.

The body of the Thermos Inox tank is made of stainless steel, while ports and coils are made of 316L stainless steel. Hard, dense Polyurethane foam is used as tank insulation.



5-year / 12-year warranty

The highest quality components and solutions guarantee many years of trouble-free operation. Rotenso Thermos Ceramic tanks come with a five-year warranty. Rotenso Thermos Inox / Twin Inox and Dual Inox tanks come with twelve-year warranty.



Technical specification

Model			AQT200EC1A			AQT300EC1A	
EAN product code			5905567607097			5905567602931	
	Capacity (class)	1	200			300	
	Colour		White			White	
	Tank material		Ceramic enamel steel			Ceramic enamel steel	
	Housing material		Polyurethane foam, plastic materi	al	F	olyurethane foam, plastic material	
	Maximum pressure	bar	10			10	
Tank	Insulation thickness	mm	42			60	
	Maximum temperature	°C	80			80	
	Height	mm	1355			1558	
	Outer diameter	mm	584			670	
	Net weight / gross weight	kg	102 / 116,3			133 / 153	
Integrated electric	Power	kW					
heater	Power supply	V-Hz, Ø					
Magnesium anode	Upper / Bottom	inches/screw	5/4" / - x1			5/4" / M8 x2	
	Туре		Single coil			Single coil	
	Material		Ceramic enamel steel			Ceramic enamel steel	
	Maximum pressure	bar	10			10	
	Maximum temperature	°C	110		110		
Heat exchanger	Heat pump tank coil surface	m ²	2	2		2,9	
	Power (50/10/45°C)	kW	17			25	
	Power (60/10/45°C)	kW					
	Solar coil surface	m ²	-			-	
	Power (80/10/45°C)	kW					
	Capacity	l/h	822		1260		
	Heat pump input	thread inches	1"		1"		
	Heat pump output	thread inches	1"		1" 1"		
	DHW output	thread inches	3/4"				
	Cold water input	thread inches	3/4"			1"	
Hydraulic connections	Temppressure valve	thread inches	-				
connections	Circulation / return	thread inches	3/4"			3/4"	
	Heater connection	thread inches	6/4"			6/4"	
	Solar system input	thread inches					
	Solar system output	thread inches					
	Tank		5			5	
Warranty	Heater and safety valve	years	2			2	
Energy efficiency cl	ass		С			C	
Maintenance				Service and anode exchange	e obligatory every 2 years.		
Static heat loss W		82			72		
Optional accessories / model		AGGE013	AGAI	MG	AGAMD		
EAN product code			5905567603266			-	
Product name			Electric heater Ma		node - upper	Magnesium anode - bottom	
Power	wer kW 3				-		
Dimmensions		mm / inches / screw	6 / 4" / -	38 × 400	/1=/-	38 × 200 / - / M8	

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Thermos Inox 200 - 500 |



Technical specification

Model			AQT200IX1	AQT300IX1	AQT400IX1	AQT500IX1
EAN product code			5905567602948	5905567602955	5905567602962	5905567602979
Tank	Capacity (class)	I	200	300	400	500
	Colour		White	White	White	White
	Tank material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Housing material		Steel	Steel	Steel	Steel
	Maximum pressure	bar	6	6	6	6
	Insulation thickness	mm	40	40	50	50
	Maximum temperature	°C	85	85	85	85
	Height	mm	1450	1600	1570	1930
	External diameter	mm	540	600	710	710
	Net weight / Gross weight	kg	58 / 65,5	74 / 84,4	81 / 97	107/123
Integrated electric	Power	kW	3	3	3	3
heater	Power supply	V-Hz, Ø	220-240 ~50, 1f	220-240 ~50, 1f	220-240 ~50, 1f	220-240 ~50, 1f
Magnesium anode	Upper / Bottom	inches/screw	-			
Heat exchanger	Туре		Single coil	Single coil	Single coil	Single coil
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Maximum pressure	bar	10	10	10	10
	Maximum temperature	°C	95	95	95	95
	Heat pump tank coil surface	m²	2,5	3,2	3,2	4
	Power (50/10/45°C)	kW	-	-		-
	Power (60/10/45°C)	kW	37,5	48,1	48,1	60,1
	Solar coil surface	m ²	-	-		
	Power (80/10/45°C)	kW	-			
	Capacity	l/h	922,6	1180,9	1180,9	1476,1
Hydraulic connections	Heat pump input	thread inches	1"	1*	1"	1"
	Heat pump output	thread inches	1"	1*	1"	1"
	DHW output	thread inches	1"	1*	1"	1"
	Cold water input	thread inches	1"	1*	1"	1"
	Temppressure valve	thread inches	1/2"	1/2"	1/2"	1/2"
	Circulation / return	thread inches	3/4"	3/4"	3/4"	3/4"
	Heater connection	thread inches	1 3/4"	1 3/4"	1 3/4"	1 3/4"
	Solar system input	thread inches	-			
	Solar system output	thread inches	-	-		
Warranty	Tank	years -	12	12	12	12
	Heater and safety valve		1	1	1	1
Energy efficiency class			C	C	С	C
Maintenance			Obligatory service after 12 months			
Static heat loss W			81	92	102	115

Thermos Dual Inox / Twin Inox 200 - 500 I



Technical specification

Model		AQT200IX2	AQT300IX2	AQT400IX2	AQT500IX2	AQT200+90IX1	AQT300+90IX1	
EAN product code		5905567602986	5905567602993	5905567603006	5905567603013	5905567603020	5905567603037	
	Capacity (class)	1	200	300	400	500	200 + 90	300 + 90
	Colour		White	White	White	White	White	White
	Tank material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Housing material		Steel	Steel	Steel	Steel	Steel	Steel
	Maximum pressure	bar	6	6	6	6	6	6
ank	Insulation thickness	mm	40	40	50	50	40	40
	Maximum temperature	°C	85	85	85	85	85	85
	Height	mm	1450	1600	1570	1930	1700	2150
	External diameter	mm	540	600	710	710	600	600
	Net weight / Gross weight	kg	61 / 68,5	77 / 87,4	84 / 100	109 / 125	85 / 95,4	102 / 112,4
ntegrated electric	Power	kW	3	3	3	3	2×3	2 × 3
neater	Power supply	V-Hz, Ø	220-240 ~50, 1f	220-240 ~50, 1f	220-240 ~50, 1f	220-240 ~50, 1f	220-240 ~50, 1f	220-240 ~50, 1f
Aagnesium anode	Upper / Bottom	inches/screw						
	Туре		Double coil	Double coil	Double coil	Double coil	Single coil	Single coil
	Material		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
	Maximum pressure	bar	10	10	10	10	10	10
	Maximum temperature	°C	95	95	95	95	95	95
leat exchanger	Heat pump tank coil surface	m²	2,5	3,2	3,2	4	2,5	3
	Power (50/10/45°C)	kW			-			
	Power (60/10/45°C)	kW	37,5	48,1	48,1	60,1	37,5	47,6
	Solar coil surface	m ²	0,7	1,1	1,1	1,2		-
	Power (80/10/45°C)	kW	17,9	29	29	30,6		
	Capacity	l/h	922,6	1180,9	1180,9	1476,1	923	1140
	Heat pump input	thread inches	1"	1"	1"	1"	1"	1"
	Heat pump output	thread inches	1"	1"	1"	1"	1"	1"
	DHW output	thread inches	1"	1"	1"	1"	1"	1"
lydraulic	Cold water input	thread inches	1"	1"	1"	1"	1"	1"
onnections	Temppressure valve	thread inches	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Circulation / return	thread inches	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Heater connection	thread inches	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	1 3/4"
	Solar system input	thread inches	3/4"	3/4"	3/4	3/4		-
	Solar system output	thread inches	3/4"	3/4"	3/4"	3/4"		-
	Tank		12	12	12	12	12	12
Varranty	Heater and safety valve	years	1	1	1	1	1	1
nergy efficiency cla	SS		С	C	C	C	С	С
Naintenance				Obligatory servic	e after 12 months		Obligatory servic	e after 12 months
itatic heat loss		W	81	92	102	115	77	94

WE ARE FUTURE

Heat pumps equipment and accessories **Rotenso**











Symbol	RENI S	RENI M	NOKA
EAN code	5905567603372	5905567603365	5905567603358
Series	AQUAMI (Split)	AQUAMI (Monoblock)	AQUAMI (Multi Split)
- Touchscreen controller			
- LCD display	•	•	•
- Checking the heat pump operational status	•	•	•
- Checking the operation mode	•	•	•
Adjustable temperature and operation mode	•	•	•
- Adjustable water temperature	•	•	•
- Adjustable air temperature	•	•	•
- Silent mode	•	•	
- Vacation mode	•	•	
- Home vacation mode	•	•	
- Eco mode	•	•	•
- Configurable daily schedules	•	•	•
Configurable weekly schedules	•	•	•
- Timer	•	•	•
- Climate curves	•	•	
Second temperature control zone to enable	•	•	
- System status tracking	•	•	•
Energy consumption tracking	•	•	
- Energy-saving tips	•	•	
Remote control	•	•	•
- Error codes display	•	•	•
- Checking the operating parameters	•	•	•
Parental lock	•	•	•
Screen lock			
- Test feature	•	•	
Audible alarm	•	•	
Multiple user interface languages including Polish	•	•	
Integrated temperature sensor	•	•	•
Integrated Wi-Fi module to support app control	•	•	
Support for Modbus and control via network	•	•	•
Max. number of indoor units (BMS control system)	16	16	16
Max. number of units per controller in a cascade system	6	6	6





ORIS	ATEA	TERO S	TERO M
brak	5905567613074	5905567613081	5905567613098
WINDMI	HEATMI	AIRMI (Split)	AIRMI (Monoblock)
•			
•	•	•	•
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•	•	•	•
32	18	16	16
	6	6	6

Expansion modules

This feature allows for the addition of extra thermostats or temperature sensors to the Aquami Split/Monoblock unit, enabling precise room temperature control. The unit enters standby mode once the set temperature is achieved by all connected thermostats or sensors. Thermostats and sensors not included.



Symbol	RAEST6
EAN Code	5905567603273
Number of additional thermostats to connect	6

Temperature sensors

- Top of the Tbt1 expansion tank,
- Bottom of the Tbt2 expansion tank,
- Tsolar system,
- Supply water for Tw2 zone 2,
- Leaving water temperature T1,
- DHW tank sensor.



	Symbol	RASN-MTF1A	RASN-MTF2A	RASN-MTF1H0	RASN-MTF2HAI0	RASN-MSDHW
GENERAL	EAN code	5905567603211	5905567603228	5905567613104	5905567613111	5905567603303
	Compatible series	AQUAMI	AQUAMI	HEATMI	HEATMI AIRMI	AQUAMI MULTI SPLIT
	Sensor cable length	10 mb	10 mb	10 mb	10 mb	10 mb
	Sheath colour	random	random	random	random	random
	Buffer tank top temperature sensor	•			•	
	Buffer tank bottom temperature sensor	•			•	
	DHW tank temperature sensor	•		•		•
APPLICATION	Solar system temperature sensor		•		(HEATMI)	
	Leaving water temperature sensor					
	Second zone supply water temperature sensor		•	•	(AIRMI)	

Pump stations

Pump station is a pre-assembled unit of equipment and fittings designed to connect the heat pump to the heating system.





	Symbol	RASPG-MVA	RASPG-DCA
	Name	Pump station with mixing valve	Direct flow pump station
	Supply shut-off valve	•	•
	Return shut-off valve	•	•
	Supply temperature gauge	•	•
	Return temperature gauge	•	•
COMPONENTS	Integrated in shut-off valve knob	•	•
	Non-return valve integrated in the return shut-off valve (blue temperature gauge)	•	•
	Circulation pump	•	•
	Shut-off valve upstream the pump	•	•
	RAS3W-MV mixing control valve	•	
	Connections on the heat pump side	G1 1/2"	G1 1/2"
	Connections on the system side	GW G1"	GW G1"
	Kvs	12 m^3/h	6,2 m^3/h
SPECIFICATION	Power supply	230V AC	230V AC
	Maximum pressure	10 bar	10 bar
	Maximum medium temperature	110°C	110°C

Manifolds

Our manifolds facilitate quick and easy connection of two or three RASPG pump stations to the heat pump. Its sleek housing ensures thermal insulation.



Symbol	RAVS-SV2	RAVS-SV2HW	RAVS-SV3	RAVS-SV3HW
Name	Manifold for two pump circuits	Manifold for two pump circuits with a hydraulic coupling	Manifold for three pump circuits	Manifold for three pump circuits with a hydraulic coupling
EAN Code	5905567603310	5905567603327	5905567603334	5905567603341
Connections on the heat pump side	G1 1/2"	G1 1/2"	G1 1/2"	G1 1/2"
Connections on the pump station side	GW 1"	GW 1"	GW 1"	GW 1"
Spacing of the connections on the pump station side	125 mm	125 mm	125 mm	125 mm
Flow rate	max. 3 m^3/h	max. 3 m^3/h	max. 3 m^3/h	max. 3 m^3/h
Maximum pressure	6 bar	6 bar	6 bar	6 bar
Maximum medium temperature	110°C	110°C	110°C	110°C



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Zone, anti-freeze valves



Symbol	RAS3W-ZV	RAS3W-ZV20	RAS3W-MV	RASAV-AV10	RASAV-AV20
Name	3-way zone valve with actuator	3-way zone valve with actuator	3-way control valve with actuator	Anti-freeze valve	Anti-freeze valve
EAN Code	5905567603297	5905567603167	5905567603280	5905567603105	5905567603112
Size	DN 20 G1 (male)	DN 25 G1 1/4" (male)	DN 25 RP1" (female)	2 x G1"	2 x G1 1/4"
Maximum medium temperature	-	-	-	70°C	70°C
Kvs	8m^3/h	13m^3/h	12m^3/h	55m^3/h	70m^3/h
Switchover time	85	85	120s	-	-
System discharge opening temperature	-	-	-	3°C	3°C

Dirt separators

The magnetic dirt separator, suitable for both heating and cooling systems, is installed before the heat pump in the system's return. It employs a dual mechanical and magnetic filtration system to shield the installation from impurities and includes a drain valve for the effortless removal of contaminants.





Symbol	RASMDS-DS10	RASMDS-DS20
Name	Magnetic dirt separator	Magnetic dirt separator
Connection size	2x GW G1"	2x GW G1 ¼"
Maximum medium temperature	90°C	90°C
Recommended maximum flow rate	2,1 m³/h	7,3 m³/h
Kvs	6,9 m³/h	17,9 m³/h

Circulation pumps

The circulation pump, designed for use in heating systems, is installed after components such as the buffer tank, plate heat exchanger, hydraulic coupling, and manifolds. It features 9 programmable characteristics, encompassing 3 constant speed settings, 3 proportional settings, and 3 constant pressure settings. The pump is equipped with LED indicators to display the currently selected operating characteristic.





Symbol	RASHSP-PH10	RASHSP-PH20
Name	Circulation pump	Circulation pump
Cable length	1,6 m	1,6m
Connection size	2x GW G1"	2x GW G1 1⁄2″
Max. glycol concentration	50%	50%
Max. pump head	7 m	7m
Effective length	130 mm	180 mm

Rubber supports

Anti-vibration support for heat pump outdoor unit installation. It is made of black rubber with a core of high-quality cushioning element.



Steel brackets

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The bracket's design accommodates the installation of Rotenso outdoor heat pump units by allowing adjustment of the connector spacing (lengthening or shortening). Made from corrosion-resistant, double-protected steel through galvanization and powder coating, the bracket also includes adjustable feet with mounting holes for secure ground attachment.



Symbol		IHG520M	IHG520S	IHG520MG	IHG520SG
EAN code		5905567604720	5905567604744	5905567604737	5905567604751
Colour		white	white	graphite	graphite
Material		galvanised and powder-coated steel	galvanised and powder-coated steel	galvanised and powder-coated steel	galvanised and powder-coated steel
	Total height	416 mm	416 mm	416 mm	416 mm
	Height	406 mm	406 mm	406 mm	406 mm
	Depth - top	593 mm	593 mm	593 mm	593 mm
Wymiary	Depth - bottom	695 mm	695 mm	695 mm	695 mm
	Width (adjustable)	520 - 1019 mm	520 - 850 mm	520 - 1019 mm	520 - 850 mm
	Mounting hole spacing (adjustable)	132 - 520 mm			
Max. load		250 kg	200 kg	250 kg	200 kg

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