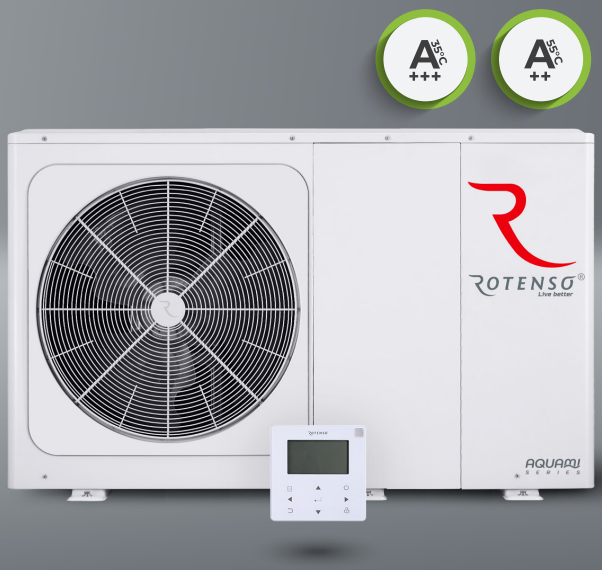
Aquami Monoblock heat pump

AQM140X3 [R14]



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Device features

- Environmentally friendly refrigerant R32
- Efficient heating
- Energy efficiency class at 35°C A+++
- Energy efficiency class at 55°C A++
- Maximum COP 4,60
- Operating range down to -25°C
- Supply water temperature of 65°C
- Integrated USB port for updates
- Energy meter
- Smart Grid functionality
- Twin rotary compressor
- Integrated electric heater
- Outdoor unit drip tray heater
- Compressor crankcase heater
- Easy installation and maintenance
- Silent mode
- Wired controller Wi-Fi module
- Configurable daily schedules
- Configurable weekly schedules
- Vacation mode
- Menu in English
- Multilanguage menu
- Integrated temperature sensor
- Weather operating modes (climate curve)
- 2 heating control zones
- Dedicated application
- Disinfection
- DHW circulation pump operation schedules
- Maximum leaving water temperature of 60°C (in DHW mode)
- Prepared to create a cascade system

Specification outdoor unit

Model				AQM140X3 R14
EAN Code				5905567602221
Power supply			V-Hz, Ø	380-420~50, 3f
Heating (A7/W35)	Capacity		kW	14,50
	Rated input		kW	3,15
	COP			4,60
Heating (A7/W45)	Capacity		kW	14,10
	Rated input		kW	3,92
	COP			3,60
Heating (A7/W55)	Capacity		kW	13,80
	Rated input		kW	4,68
	COP			2,95
Cooling (A35/W18)	Capacity		kW	13,50
	Rated input		kW	3,75
	EER			3,60
Cooling (A35/W7)	Capacity		kW	12,40
	Rated input		kW	4,96
	EER			2,50
Seasonal energy efficiency LWT at 35ºC	SCOP(1)			4,72
	Rated heat output		kW	13,7
	Seasonal energy efficiency ratio (ηS)		%	185,7
	Annual energy consumption		kWh	6013
	Seasonal space heating energy efficiency class(1)			A+++
Seasonal energy efficiency LWT at 55ºC	SCOP(1)			3,47
	Rated heat output		kW	12,10
	Seasonal energy efficiency ratio (ηS)		%	135,6
	Annual energy consumption		kWh	7202
	Seasonal space heating energy efficiency class(1)			A++
SEER	LWT at 7ºC			4,83
	LWT at 18ºC			6,85
Maximum overcurrent protection (MOP)			A	25
Minimum circuit amps (MCA)			A	24
Compressor		Type		Twin rotary inverter compressor DC
Fan		Type		Brushless DC motor / BLDC
		Quantity		1
Refrigerant		Type / GWP		R32 / 675
		Quantity	kg	1,75
			TCO_2eq	1,18
Power cables: indoor unit			pcs × mm²	5 x 4
Bracket spacing		(W1×W2×D)		656 x 363 x 488
Sound pressure level			dB(A)	53,5
Sound power level			dB(A)	65
Net dimensions		(W×D×H)	mm	1385×526×865
Gross dimensions		(W×D×H)	mm	1465×560×1035
Net weight / Gross weight			kg	149/177
Operating outdoor temperature	Cooling		ºC	-5~43
	Heating		ºC	-25~35
	DHW		ºC	-25~43
Operation modes				Heating and cooling
Leaving water temperature	Space cooling		°C	5~25
	Space heating		°C	25~65
	DHW (tank)		°C	30~60
Electric heater	Power supply		V-Hz, Ø	380-420~50, 3f
	Number of heating stages / Power		pcs / kW	3 / 9
	Maximum operating current		A	13,3
Water circuit	Water connections		mm (inch)	41,91mm (G5/4" BSP) external
	Pressure relief valve		MPa	0.3
	Condensate drain		mm	16
	Expansion tank	Total volume / Actual volume	l	8 / 4,8
		Maximum pressure / Initial pressure	MPa	0,3 / 0,1
	Heat exchanger	Type		PHE / plate heat exchanger
		Minimum flow	l/min	10
	Water pump head		m	9
	Water pump type			DC
	Total water volume		l	2

(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 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.