

Aquami Monoblock heat pump

AQM120X3^[R14]



Device features

							
Environmentally friendly refrigerant R32	Efficient heating	Energy efficiency class at 35°C A+++	Energy efficiency class at 55°C A++	Maximum COP 4,95	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			AQM120X3 R14		
EAN Code			5905567602214		
Power supply		V-Hz, Ø	380-420-50, 3f		
Heating (A7/W35)	Capacity	kW	12,10		
	Rated input	kW	2,44		
	COP		4,95		
Heating (A7/W45)	Capacity	kW	12,30		
	Rated input	kW	3,32		
	COP		3,70		
Heating (A7/W55)	Capacity	kW	11,90		
	Rated input	kW	3,90		
	COP		3,05		
Cooling (A35/W18)	Capacity	kW	12,00		
	Rated input	kW	3,04		
	EER		3,95		
Cooling (A35/W7)	Capacity	kW	11,50		
	Rated input	kW	4,18		
	EER		2,75		
Seasonal energy efficiency LWT at 35°C	SCOP ⁽¹⁾		4,81		
	Rated heat output	kW	12		
	Seasonal energy efficiency ratio (η _s)	%	189,4		
	Annual energy consumption	kWh	5153		
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++		
Seasonal energy efficiency LWT at 55°C	SCOP ⁽¹⁾		3,45		
	Rated heat output	kW	11,60		
	Seasonal energy efficiency ratio (η _s)	%	135,1		
	Annual energy consumption	kWh	6927		
	Seasonal space heating energy efficiency class ⁽¹⁾		A++		
SEER	LWT at 7°C		4,86		
	LWT at 18°C		7,04		
Maximum overcurrent protection (MOP)		A	25		
Minimum circuit amps (MCA)		A	23		
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 ₂ eq	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)	53,0		
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	°C	-5-43		
	Heating	°C	-25-35		
	DHW	°C	-25-43		
Operation modes			Heating and cooling		
Leaving water temperature	Space cooling		5-25		
	Space heating		25-65		
	DHW (tank)		30-60		
Electric heater	Power supply		V-Hz, Ø		
	Number of heating stages / Power		pcs / kW		
	Maximum operating current		A		
Water circuit	Water connections		mm (inch)		
	Pressure relief valve		MPa		
	Condensate drain		mm		
	Expansion tank	Total volume / Actual volume		l	
		Maximum pressure / Initial pressure		MPa	
	Heat exchanger	Type		PHE / plate heat exchanger	
		Minimum flow		l/min	
	Water pump head		m		
	Water pump type		DC		
	Total water volume		l		

(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.