

Aquami Big Mono heat pump

AQM220X3 ^[R14]



Device features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C A+++ ⁽¹⁾



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



Maximum COP 4,40



Operating range down to -25°C



Supply water temperature of 60°C



Integrated USB port for updates



Energy meter



Smart Grid functionality



Twin rotary compressor



Outdoor unit drip tray heater



Compressor crankcase heater



Easy installation and maintenance



Silent mode



Wired controller Wi-Fi module



Daily operation schedule



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



Modbus Protocol

Specification outdoor unit

Model			AQM220X3 R14	
EAN Code			5905567602245	
Power supply		V-Hz, Ø	380-420–50, 3f	
Heating (A7/W35)	Capacity	kW	22,00	
	Rated input	kW	5,00	
	COP		4,40	
Heating (A7/W45)	Capacity	kW	22,00	
	Rated input	kW	6,47	
	COP		3,40	
Heating (A7/W55)	Capacity	kW	22,00	
	Rated input	kW	8,30	
	COP		2,65	
Cooling (A35/W18)	Capacity	kW	23,00	
	Rated input	kW	5,00	
	EER		4,60	
Cooling (A35/W7)	Capacity	kW	21,00	
	Rated input	kW	7,12	
	EER		2,95	
Seasonal energy efficiency LWT at 35°C	SCOP ⁽¹⁾		4,53	
	Rated heat output	kW	22	
	Seasonal energy efficiency ratio (η _S)	%	178	
	Annual energy consumption	kWh	10108	
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++	
Seasonal energy efficiency LWT at 55°C	SCOP ⁽¹⁾		3,23	
	Rated heat output	kW	22	
	Seasonal energy efficiency ratio (η _S)	%	126	
	Annual energy consumption	kWh	14390	
	Seasonal space heating energy efficiency class ⁽¹⁾		A++	
SEER	LWT at 7°C		4,70	
	LWT at 18°C		5,67	
Maximum overcurrent protection (MOP)		A	25	
Minimum circuit amps (MCA)		A	25	
Compressor		Type	Twin rotary inverter compressor DC	
Fan	Type		Brushless DC motor / BLDC	
	Quantity		2	
Refrigerant	Type / GWP		R32 / 675	
	Quantity	kg	5	
		TCO ₂ eq	3,375	
Power cables: indoor unit		pcs × mm²	5 × 6	
Bracket spacing	(W1×W2×D)		668 x 206 x 494	
Sound pressure level		dB(A)	59,8	
Sound power level		dB(A)	73	
Net dimensions	(W×D×H)	mm	1129×528×1558	
Gross dimensions	(W×D×H)	mm	1220×565×1735	
Net weight / Gross weight		kg	177/206	
Operating outdoor temperature	Cooling	°C	-5–46	
	Heating	°C	-25–35	
	DHW	°C	-25–43	
Operation modes			Heating and cooling	
Leaving water temperature	Space cooling	°C	5–25	
	Space heating	°C	25–60	
	DHW (tank)	°C	30–60	
Electric heater	Power supply	V-Hz, Ø	brak	
	Number of heating stages / Power	pcs / kW	brak	
	Maximum operating current	A	brak	
Water circuit	Water connections		mm (inch)	41,91 mm (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	1 / 0,1
	Heat exchanger	Type	PHE / plate heat exchanger	
		Minimum flow	l/min	27
	Water pump head		m	12
	Water pump type			DC
	Total water volume		l	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 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.