Aquami Monoblock heat pump

AQM80X1 *[R14]*

HEAT PUMP KEYMARK www.heatpump.keymark.eu

Device features

- Environmentally friendly refrigerant R32
- Efficient heating
- Energy efficiency class at 35°C A+++
- Energy efficiency class at 55°C A++
- Maximum COP 5,15
- 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				AQM80X1 R14
EAN Code				5905567602191
Power supply			V-Hz, Ø	220-240~50, 1f
Heating (A7/W35)	Capacity		kW	8,40
	Rated input		kW	1,63
	COP			5,15
Heating (A7/W45)	Capacity		kW	8,10
	Rated input		kW	2,10
	COP			3,85
Heating (A7/W55)	Capacity		kW	7,50
	Rated input		kW	2,36
	COP			3,18
Cooling (A35/W18)	Capacity		kW	8,30
	Rated input		kW	1,64
	EER			5,05
Cooling (A35/W7)	Capacity		kW	7,45
	Rated input		kW	2,22
	EER			3,35
Seasonal energy efficiency LWT at 35ºC	SCOP[1]			5,21
	Rated heat output		kW	8,1
	Seasonal energy efficiency ratio (ηS)		%	205,6
	Annual energy consumption		kWh	3218
	Seasonal space heating energy efficiency class[1]			A+++
Seasonal energy efficiency LWT at 55ºC	SCOP[1]			3,36
	Rated heat output		kW	6,60
	Seasonal energy efficiency ratio (ηS)		%	131,6
	Annual energy consumption		kWh	4054
	Seasonal space heating energy efficiency class[1]			A++
SEER	LWT at 7ºC			5,83
	LWT at 18ºC			8,95
Minimum rated current of the overcurrent circuit breaker with breaker type			A	B32
Compressor		Type		Twin rotary inverter compressor DC
Fan		Type		Brushless DC motor / BLDC
		Quantity		1
Refrigerant		Type / GWP		R32 / 675
		Quantity	kg	1,4
			TCO_2eq	0,95
Minimal wire pcs and dimension of cords*			pcs × mm²	3 × 6
Bracket spacing		(W1×W2×D)	mm	656 x 363 x 488
Sound pressure level			dB(A)	48,5
Sound power level			dB(A)	59
Net dimensions		(W×D×H)	mm	1385×526×865
Gross dimensions		(W×D×H)	mm	1465×560×1035
Net weight / Gross weight			kg	110/137
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	220-240~50, 1f
	Number of heating stages / Power		pcs / kW	1 / 3
	Maximum operating current		A	13,5
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	6
	Water pump head		m	9
	Water pump type			DC
	Total water volume		l	3,2

(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.
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.