

Aquami Big Mono heat pump

AQM220X3 [R14]



Device features

tl₀

Efficient

heating

Smart Grid

functionality



Environmentally friendly refrigerant R32



Energy



0-0 MON





Configurable weekly schedules



Dedicated application



DHW circulation



A

 $\overline{+}+\overline{+}$

Energy efficiency

class at 35°C

A+++ (1)

Twin rotary

compressor

Vacation

mode

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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)



Compressor

crankcase heater

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Multilanguage

Maximum COP 4,40



Easy installation and maintenance

Integrated

temperature

sensor

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WIE

-25°C

Operating range down to -25°C



≜60°C W



Integrated USB temperature port for updates of 60°C



Wired controller Wi-Fi module

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2 heating control zones

Prepared to create a cascade system









Silent

mode





Specification outdoor unit

| Model | | | | AQM220X3 R14 |
|--|---|-------------------------------------|------------------------------------|--|
| | | | | |
| EAN Code | | | | 5905567602245 |
| Power supply | | | V-Hz, Ø | 380-420-50, 3f |
| | Capacity | | kW | 22,00 |
| Heating | Rated input | | kW | 5,00 |
| (A7/W35) | COP | | | 4,40 |
| | Capacity | | kW | 22,00 |
| Heating | | | | |
| (A7/W45) | Rated input | | kW | 6,47 |
| | COP | | | 3,40 |
| | Capacity | | kW | 22,00 |
| Heating (A7/W55) | Rated input | | kW | 8,30 |
| | COP | | | 2,65 |
| | Capacity | | kW | 23,00 |
| Cooling (A35/W18) | | | | |
| | Rated input | | kW | 5,00 |
| | EER | | | 4,60 |
| Cooling (A35/W7) | Capacity | | kW | 21,00 |
| | Rated input | | kW | 7,12 |
| | EER | | | 2,95 |
| | SCOP ⁽¹⁾ | | | 4,53 |
| | | | | 4,55 |
| Seasonal energy efficiency LWT at 35°C | Rated heat output | | kW | |
| | Seasonal energy efficiency ratio (ηS) | | 96 | 178 |
| | Annual energy consumption | | kWh | 10108 |
| | Seasonal space heating energy efficiency class ⁽¹⁾ | | | A+++ |
| | SCOP ⁽¹⁾ | | | 3,23 |
| Seasonal energy efficiency LWT at 55°C | Rated heat output | | kW | 22 |
| | | | | |
| | Seasonal energy efficiency ratio (ηS) | | 96 | 126 |
| | Annual energy consumption | | kWh | 14390 |
| | Seasonal space heating energy efficiency class ⁽¹⁾ | | | A++ |
| | LWT at 7°C | | | 4,70 |
| SEER | LWT at 18°C | | | 5,67 |
| Minimum rated current of the overcurrent circuit breaker with breaker type | | | A | B20 |
| | | | ~ | |
| Compressor Type Fan Type Quantity Quantity | | | Twin rotary inverter compressor DC | |
| | | | | Brushless DC motor / BLDC |
| | | Quantity | | 2 |
| | Type / GWP | | | R32 / 675 |
| Refrigerant | | | kg | 5 |
| | | Quantity | TCO,eq | 3,375 |
| Minimal wire per and dimension of corde* | | | | 5x4 |
| Minimal wire pcs and dimension of cords* | | pcs × mm² | | |
| Bracket spacing (W1×W2×D) | | mm | 668 x 206 x 494 | |
| Sound pressure level | | dB(A) | 59,8 | |
| Sound power level | | dB(A) | 73 | |
| Net dimensions (W×D×H) | | (W×D×H) | mm | 1129×528×1558 |
| Gross dimensions (W×D× | | (W×D×H) | mm | 1220×565×1735 |
| | | kg | 177/206 | |
| Net weight / Gross weight | | | | |
| Operating outdoor temperature | Cooling | | °C | -5~46 |
| | Heating | | ٥C | -25-35 |
| | DHW | | ٩C | -25-43 |
| Operation modes | | | | Heating and cooling |
| | Space cooling | | °C | 5-25 |
| Leaving water temperature | Space beating | | °C | 25~60 |
| | DHW (tank) | | °C | 30~60 |
| | | | | ۵۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰ |
| Electric heater | Power supply | | V-Hz, Ø | |
| | Number of heating stages / Power | | pcs / kW | |
| | Maximum operating current | | A | |
| Water circuit | Water connections | | mm (inch) | 41,91 mm (G5/4" BSP) external |
| | Pressure relief valve | | MPa | 03 |
| | Condensate drain | | mm | 16 |
| | | | | |
| | Expansion tank | Total volume / Actual volume | 1 | 8 / 4,8 |
| | | Maximum pressure / Initial pressure | MPa | 1 / 0,1 |
| | Heat exchanger | Туре | | PHE / plate heat exchanger |
| | Heat exchanger Minimum flow | | l/min | 27 |
| | Water pump head | | m | 12 |
| | Water pump read | | | DC |
| | | | | |
| | Total water volume | | 1 | 3,5 |
| | | | | |

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

(1) decayment (2) enclosing class measured on the periodic contained. 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 LMn: 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.