

Aquami Big Mono heat pump

AQM300X3 [R14]

























Device features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C



Maximum COP 3,91



Operating range down to -25°C



Supply water temperature of 60°C



Integrated USB port for updates



Energy



Smart Grid



Twin rotary compressor



Outdoor unit drip tray heater



Compressor crankcase heater



Easy installation



Silent mode



Wired controller



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				AGMANANA
				AQM300X3 R14
EAN Code				5905567602252
Power supply			V-Hz, Ø	380-420-50, 3f
	Capacity		kW	30.10
Heating	Rated input		kW	7,70
(A7/W35)	COP		KVV	
				3,91
Heating	Capacity		kW	30,00
(A7/W45)	Rated input		kW	10,35
(07111)	COP			2,90
	Capacity		kW	30,00
Heating	Rated input		kW	13,04
(A7/W55)			KVV	
	COP			2,30
Cooling	Capacity		kW	31,00
(A35/W18)	Rated input		kW	7,75
(103/11/0)	EER			4,00
Cooling	Capacity		kW	29,50
	Rated input		kW	11,57
(A35/W7)			KVV	
	EER			2,55
	SCOP ⁽¹⁾			4,20
Seasonal energy	Rated heat output		kW	29
efficiency	Seasonal energy efficiency ratio (ηS)		96	165
LWT at 35°C	Annual energy consumption		kWh	14165
	Seasonal space heating energy efficiency class ⁽¹⁾			A++
	SCOP ⁽¹⁾			3,15
Seasonal energy	Rated heat output		kW	30
efficiency	Seasonal energy efficiency ratio (ηS)		96	123
LWT at 55°C	Annual energy consumption		kWh	19316
	Seasonal space heating energy efficiency class ⁽¹⁾			A+
	LWT at 7°C			4.49
SEER				
LWT at 18°C				5,71
Maximum overcurre	rent protection (MOP)		A	32
Minimum circuit am	nps (MCA)		A	29
Compressor		Туре		Twin rotary inverter compressor DC
				Brushless DC motor / BLDC
Fan Type Quantity			2	
	Type / GWP			
				R32 / 675
Refrigerant		Quantity	kg	5
		Quartity	TCO₂eq	3,375
Power cables: indoor unit			pcs × mm²	5×6
Bracket spacing				
		(W1×W2×D)		668 x 206 x 494
	-1	(W1×W2×D)	-ID(A)	668 x 206 x 494
Sound pressure leve	vel	(W1×W2×D)	dB(A)	63,5
Sound pressure level	vel		dB(A)	63,5 77
Sound pressure leve	vel	(W×D×H)		63,5 77 1129×528×1558
Sound pressure level Sound power level Net dimensions Gross dimensions			dB(A)	63,5 77
Sound pressure level Sound power level Net dimensions Gross dimensions		(W×D×H)	dB(A) mm	63,5 77 1129×528×1558
Sound pressure level Sound power level Net dimensions	weight	(W×D×H)	dB(A) mm mm kg	63,5 77 1129×528×1558 1220×565×1735 177/206
Sound pressure level Sound power level Net dimensions Gross dimensions	weight Cooling	(W×D×H)	dB(A) mm mm kg	63.5 77 1129×528×1558 1220×556×1735 177/206 -5-46
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v	weight Cooling Heating	(W×D×H)	dB(A) mm mm kg °C	63.5 77 1129×528×1558 1220×565×1735 177/206 -5-46 -25-35
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature	weight Cooling	(W×D×H)	dB(A) mm mm kg	63.5 77 1129×528×1558 1220×565×1735 177/206 -5-46 -25-35 -25-43
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor	weight Cooling Heating	(W×D×H)	dB(A) mm mm kg °C	63.5 77 1129×528×1558 1220×565×1735 177/206 -5-46 -25-35
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes	weight Cooling Heating	(W×D×H)	dB(A) mm mm kg °C	63.5 77 1129×528×1558 1220×565×1735 177/206 -5-46 -25-35 -25-43
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water	weight Cooling Heating DHW Space cooling	(W×D×H)	dB(A) mm mm kg oc oc	63,5 77 1129×528×1558 1220×565×1735 177/206 -5-46 -25-35 -25-43 Heating and cooling 5-25
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes	weight Cooling Heating DHW Space cooling Space heating	(W×D×H)	dB(A) mm mm kg oc oc oc	63.5 77 1129×528×1558 1220×5565×1735 177/206 -5-46 -25-35 -25-43 Heating and cooling -5-25 25-60
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water	weight Cooling Heating DHW Space cooling Space heating DHW (tank)	(W×D×H)	dB(A) mm mm kg oc oc oc oc	63.5 77 1129×528×1558 1220×565×1735 177/206 -5-46 -25-35 -25-43 Heating and cooling -5-25 25-60 30-60
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling Heating DHW Space cooling Space heating DHW (ank) Power supply	(W×D×H)	dB(A) mm mm kg eC eC eC C V-Hz, Ø	63.5 77 1129×528×1558 1220×565×1735 1277/206 -5-46 -25-35 -25-43 Heating and cooling 5-25 25-60 30-60 brak
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water	weight Cooling Heating DHW Space cooling Space heating DHW (tank)	(W×D×H)	dB(A) mm mm kg oc oc oc oc	63,5 77 1129×528×1558 1220×565×1735 177/206 -5-46 -25-35 -25-43 Heating and cooling 5-52 5-60 30-60
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling Heating DHW Space cooling Space heating DHW (ank) Power supply	(W×D×H)	dB(A) mm mm kg eC eC eC C V-Hz, Ø	63.5 77 1129×528×1558 1220×565×1735 1277/206 -5-46 -25-35 -25-43 Heating and cooling 5-25 25-60 30-60 brak
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power	(W×D×H)	dB(A) mm mm kg oC oC oC V-Hz, Ø pcs / kW	63.5 77 11295528*1558 1220×565×1735 177/206 -5-46 -2-5-35 -2-5-43 Heating and cooling 5-25 25-60 30-60 brak
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling Heating DHW Space cooling Space heating DHW (rank) Power supply Number of heating stages / Power Maximum operating current Water connections	(W×D×H)	dB(A) mm mm kg ec ec ec ec ec ec ec e	63,5 77 1129×528×1558 1220×565×1735 177/206 15-46 25-35 25-43 Heating and cooling 5-25 25-60 30-60 brak brak 41,91 mm (C5/4* BSP) external
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve	(W×D×H)	dB(A) mm mm kg ec ec ec c c v-tz, Ø pes/kW A mm (inch)	63.5 77 1129×528×1558 1220×565×1735 1777206 -5-46 -25-35 -25-43 Heating and cooling 5-25 25-60 30-60 brak brak 41.91 mm (G5/4* BSP) external 0.3
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling Heating DHW Space cooling Space heating DHW (rank) Power supply Number of heating stages / Power Maximum operating current Water connections	(W~D~H) (W~D×H)	dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs / kW A mm (inch) MPa	63.5 77 11295528*1558 11220*565x1735 1177/206 15-46 25-35 25-43 Heating and cooling 5-25 25-60 30-60 brak brak brak 41,91 mm (65/4* BSP) external 0.3 16
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve Condensate drain	(W×D×H)	dB(A) mm mm kg eC eC eC vC vC vC vHz, Ø pcs / kW A mm (inch) MPa mm I	63.5 77 1129×528×1558 1220×565×1735 177/206 -5-46 -25-35 -25-43 Heating and cooling 5-25 25-60 30-60 brak brak brak 41.91 mm (55/4* BSP) external 0.3 16
Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature Electric heater	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve	(W~D~H) (W~D×H)	dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs / kW A mm (inch) MPa	63.5 77 11295528*1558 11220*565x1735 1177/206 15-46 25-35 25-43 Heating and cooling 5-25 25-60 30-60 brak brak brak 41,91 mm (65/4* BSP) external 0.3 16
Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank	(W×D×H) (W×D×H) Total volume / Actual volume	dB(A) mm mm kg eC eC eC vC vC vC vHz, Ø pcs / kW A mm (inch) MPa mm I	63.5 77 1129×528×1558 1129×528×1558 129×528×1735 177/206 -5-46 -2-5-43 -2-5-43 Heating and coling 5-25 25-60 30-60 brak brak brak brak 41.91 mm (65/4" BSP) external 0.3 16 8 / 4,8
Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature Electric heater	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve Condensate drain	(W×D×H) (W×D×H) Total volume / Actual volume Maximum pressure / Initial pressure Type	dB(A) mm mm kg eC eC eC vC vC vC vHz, Ø pcs / kW A mm (inch) MPa mm I	63.5 77 1129×528×1558 1220×5565×1735 177/206 177/206 -5-46 -25-35 -25-43 Heating and cooling 5-25 25-60 30-60 brak brak 41,91 mm (65/4° BSP) external 0.3 16 8 / 4,8 1 / 0,1 PHE / plate heat exchanger
Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature Electric heater	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger	(W×D×H) (W×D×H) Total volume / Actual volume Maximum pressure / Initial pressure	dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs / kW A mm (inch) MPa mm I MPa	63.5 77 11295528*1558 11205565*1735 1177/206 15-46 25-43 Heating and cooling 5-25 25-63 Heating and cooling 5-25 25-60 30-60 brak brak brak 41,91 mm (55,44* BSP) external 0.3 16 8 8/4,8 1 1/0,1 PHE / plate heat exchanger
Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature Electric heater	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger Water pump head	(W×D×H) (W×D×H) Total volume / Actual volume Maximum pressure / Initial pressure Type	dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs / kW A mm (inch) MPa mm	63.5 77 1129×528×1538 1129×528×1538 1129×528×1735 177/206 1-5-46 2-5-43 4-25-35 2-5-43 Heating and cooling 5-25 25-60 30-60 brak brak brak brak 41,91 mm (65/4* BS) external 0.3 16 8 / 4,8 1 / 0,1 PHE / plate heat exchanger
Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross v Operating outdoor temperature Operation modes Leaving water temperature Electric heater	weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger	(W×D×H) (W×D×H) Total volume / Actual volume Maximum pressure / Initial pressure Type	dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs / kW A mm (inch) MPa mm I MPa	63.5 77 11295528*1558 11205565*1735 1177/206 15-46 25-43 Heating and cooling 5-25 25-63 Heating and cooling 5-25 25-60 30-60 brak brak brak 41,91 mm (55,44* BSP) external 0.3 16 8 8/4,8 1 1/0,1 PHE / plate heat exchanger

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; 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) Np. 813/2013; Journal of Laws 2014 / C 207/02: 2014.