ZOTENS O[®]

Aquami Monoblock heat pump

AQM80X1 [R14]



Device features

tl₀

Efficient

heating

Smart Grid

-0--0-

MON

Configurable daily

schedules



Environmentally friendly refrigerant R32



Energy



functionality



Wired controller Wi-Fi module



2 heating control zones

Ø



Dedicated application



A

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

Energy efficiency

class at 35°C

A+++

Twin rotary

compressor

Configurable

weekly schedules

+

Energy efficiency class at 55°C A++



Integrated electric heater



COP

5,15

Maximum

COP 5,15

⋛≣

Outdoor unit drip

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Vacation mode



DHW circulation pump operation schedules

EN Menu in English



Maximum leaving water temperature of 60°C (in DHW mode)



Operating range down to -25°C



Compressor crankcase heater

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Multilanguage

menu

Prepared to create

a cascade system



≜ 65°C

M

Supply water

temperature

of 65°C

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PUMS

EYMA heatpump.keyma



8







Weather operating modes (climate curve)



DATASHEET

Į. Silent



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Integrated USB

port for updates













Specification outdoor unit

Model EAN Code				
EAN Code				AQM80X1 R14
				5905567602191
Power supply			V-Hz, Ø	220-240-50, 1f
	Capacity		kW	8,40
Heating	Rated input		kW	1.63
(A7/W35)	COP			5,15
	Capacity		kW	8,10
Heating	Rated input		kW	2,10
(A7/W45)			KVV	
	COP			3,85
Heating	Capacity		kW	7,50
(A7/W55)	Rated input		kW	2,36
((())))	COP			3,18
	Capacity		kW	8,30
Cooling	Rated input		kW	1,64
(A35/W18)	EER			5,05
	Capacity		kW	7,45
Cooling				
(A35/W7)	Rated input		kW	2,22
	EER			3,35
	SCOP ⁽¹⁾			5,21
Seasonal energy	Rated heat output		kW	8,1
efficiency	Seasonal energy efficiency ratio (ηS)		96	205,6
LWT at 35°C	Annual energy consumption		kWh	3218
	Seasonal space heating energy efficiency class ⁽¹⁾			A+++
	SCOP ⁽¹⁾			3,36
			kW	5,50
Seasonal energy	Rated heat output			
efficiency LWT at 55ºC	Seasonal energy efficiency ratio (ηS)		96	131,6
	Annual energy consumption		kWh	4054
	Seasonal space heating energy efficiency class (1)			A++
	LWT at 7°C			5,83
SEER LWT at 18°C				8.95
Minimum rated current of the overcurrent circuit breaker with breaker type			A	B32
				Twin rotary inverter compressor DC
Compressor Type				Brushless DC motor / BLDC
Fan Type				
Fan				
Fan		Quantity		1
Fan				1 R32 / 675
Fan Refrigerant		Quantity Type / GWP	kg	1
		Quantity	kg TCO ₂ eq	1 R327675
Refrigerant	id dimension of cords*	Quantity Type / GWP		1 R32 / 675 1,4
Refrigerant Minimal wire pcs and	id dimension of cords*	Quantity Type / GWP Quantity	TCO ₂ eq pcs × mm ²	1 R32/675 1,4 0,95 3×6
Refrigerant Minimal wire pcs and Bracket spacing		Quantity Type / GWP	TCO ₂ eq pcs × mm ² mm	1 R32 / 675 1.4 0.95 3 × 6 656 × 363 × 488
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve		Quantity Type / GWP Quantity	TCO2eq pcs × mm² mm dB(A)	1 R32 / 675 1,4 0,95 3 × 6 655 x 363 x 488 48,5
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level		Quantity Type / GWP Quantity (W1×W2×D)	TCO2eq pcs × mm² mm dB(A) dB(A)	1 R32 / 675 1,4 0,95 3 × 6 656 × 33 × 488 48,5 59
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions		Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO2eq pcs × mm² mm dB(A) dB(A) mm	1 R32 / 675 1.4 0.95 3 × 6 656 × 363 × 488 48,5 59 1385×526×865
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions Gross dimensions	el	Quantity Type / GWP Quantity (W1×W2×D)	TCO2eq pcs × mm² mm dB(A) dB(A) mm mm mm	1 R32/675 1.4 0.955 3.×6 656×363×488 48.5 59 59 1385×526×865 1465×560×1035
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions	el	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO ₂ eq pcs × mm² mm dB(A) dB(A) mm kg	1 R32/675 1.4 0.95 3 × 6 656 × 363 × 488 48,5 59 1385×526×865
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross w	el	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO2eq pcs × mm² mm dB(A) dB(A) mm mm mm	1 R32/675 1.4 0.955 3 × 6 656 × 363 × 488 48.5 59 59 1385×526×865 1465×560×1035
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor	el weight	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO ₂ eq pcs × mm² mm dB(A) dB(A) mm kg	1 R32 / 675 1,4 0,95 3 × 6 656 × 363 × 488 48,5 59 1385×526×865 1485×526×865 1465×50x1035 110/137
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross w	el Keight Cooling Heating	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO ₂ eq pcs × mm² mm dB(A) dB(A) mm kg °C °C	1 R32/675 1.4 0.95 3×6 655 x363 x488 48,5 59 1385×526×865 1465×560×1035 110137 110137 -5×43 -25×35
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature	el weight Cooling	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO_yeq pcs × mm² mm dB(A) mm mm kg °C	1 R32/675 1.4 0.95 3.×6 656×363×488 656×363×488 59 59 59 11385×560×1035 110/137 110/137 5-43 25-35 25-43
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor	el Cooling Heating DHW	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO ₂ eq pcs × mm² mm dB(A) mm kg ec ec ec ec	1 R32/675 1.4 0.95 3.×6 656×363×488 656×363×488 1656×363×488 17385×526×865 1385×526×865 1465×560×1035 110/137 -5-43 10/137 -5-43 125-35 25-43 Heating and cooling
Refrigerant Minimal wire pcs and Bracket spacing Sound proserve level Sound proserve level Net dimensions Net weight / Gross w Operating outdoor temperature Operation modes	el Cooling Heating DHW Space cooling	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO ₂ eq pcs × mm² mm dB(A) mm wm wm mm ec ec ec ec ec ec	1 R32 / 675 1.4 0.95 3. × 6 656 × 363 × 488 48.5 59 59 50 1385 × 56×865 1465 × 50×1035 1465 × 50×1035 110/137 10
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water	el Cooling Heating DHW Space cooling Space heating	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO2eq pcs × mm² mm dB(A) mm kg °C °C °C °C °C	1 R32 / 675 1.4 0.95 3.× 6 656 × 363 × 488 48,5 59 1385 × 56 × 865 1385 × 56 × 865 1465 × 560 × 1035 110/137 .5-43 .25-43 Heating and cooling F-25 525-65
Refrigerant Minimal wire pcs and Bracket spacing Sound proserve level Sound proserve level Net dimensions Net weight / Gross w Operating outdoor temperature Operation modes	el Cooling Heating DHW Space cooling Space heating DHW (tank)	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO_seq pcs × mm² mm dB(A) dB(A) mm mm oc	1 1 R32/675 1.4 0.095 3×6 665×363×488 6656×363×488 10 1385×56×865 11 1385×56×865 11 1465×560×1035 11 10137 1013 1013
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water	el Cooling Heating DHW Space cooling Space heating	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO2eq pcs × mm² mm dB(A) mm kg °C °C °C °C °C	1 R32 / 675 1.4 0.95 3.× 6 656 × 363 × 488 48,5 59 1385 × 56×865 1385 × 56×865 1385 × 56×865 1465 × 560 × 1035 1010 137 .5-43 .25-43 Heating and cooling Heating and cooling 5-25 25-65
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water	el Cooling Heating DHW Space cooling Space heating DHW (tank)	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO_seq pcs × mm² mm dB(A) dB(A) mm mm oc	1 R32 / 675 1.4 0.95 3 × 6 656 × 363 × 488 48.5 59 1188×56×865 1185×56×1035 1465×560×1035 110/137 -5-43 -25-35 10/137 45-43 10/137 -5-43 10/137 -5-43 -25-65 30-60
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	el Cooling Heating DHW Space cooling Space heating DHW(tank) Power supply Number of heating stages / Power	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO_seq pcs x mm² mm dB(A) mm dB(A) mm ec	1 R82/675 1.4 0.95 3.× 6 656×363×488 656×363×488 1656×363×488 1656×363×488 1656×363×488 1738×526×865 11465×560×1035 110137 10137 10137 10137 10137 10137 1025-35 125-35 125-35 125-43 Heating and cooling 5-25 125-65 130-60 120-240-50, 1f
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	el Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO_seq pcs x mm² mm dB(A) dB(A) mm gc ec ec ec e	1 R32 / 675 1.4 0.95 0.95 1.4 0.95 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	el weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO_eq pcs x mm² mm dB(A) dB(A) mm kg ec	1 1 R32/675 1.4 R32/675 1.4 0.95 3×6 656×363×488 6 656×363×488 1.6 1.6 59 59 1.185×56×865 1.16 1.10/137 1.10/13 1.10/14 1.10/14 1.10/14 1.10/14
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	el Cooling Heating DHW Space cooling Space heating DHW (ank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve	Quantity Type / GWP Quantity (W1×W2×D) (W1×D>H)	TCO_eq pcs x mm² mm dB(A) mm mm kg eC eC eC *C *MPa	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	el weight Cooling Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages / Power Maximum operating current Water connections	Quantity Type / GWP Quantity (W1-W2×D) (W1-D>H) (W2D>H)	TCO_seq pcs x mm² mm dB(A) mm dB(A) mm ec ec <td>1 R32 / 675 1.4 0.95 3. × 6 656 × 363 × 488 1 1.8 59 1.185×526×865 1.10137 -5-43 25-43 Heating and cooling 25-43 20-60 220-240-50, 1f 1.13 1.13 1.13 1.143 1.15 1.16</td>	1 R32 / 675 1.4 0.95 3. × 6 656 × 363 × 488 1 1.8 59 1.185×526×865 1.10137 -5-43 25-43 Heating and cooling 25-43 20-60 220-240-50, 1f 1.13 1.13 1.13 1.143 1.15 1.16
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	el 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	Quantity Type / GWP Quantity (W1×W2×D) (W+D×H) (W+D×H) (W+D×H)	TCO_seq pcs x mm² mm dB(A) dB(A) mm gc ec ec <td>1 R32 / 675 1.4 0,95 3 × 6 656 × 363 × 488 48,5 59 145×560×1035 110/137 -5-43 -25-43 Heating and coling 5-25 20×20+50,11 135 41,91mm (G5/4* BSP) external 0,3 16 8/4,8</td>	1 R32 / 675 1.4 0,95 3 × 6 656 × 363 × 488 48,5 59 145×560×1035 110/137 -5-43 -25-43 Heating and coling 5-25 20×20+50,11 135 41,91mm (G5/4* BSP) external 0,3 16 8/4,8
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	el Cooling Heating DHW Space cooling Space heating DHW (ank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve	Quantity Type / GWP Quantity (W1-W2×D) (W1-D>H) (W2D>H)	TCO_seq pcs x mm² mm dB(A) mm dB(A) mm ec ec <td>1 R32/675 1.4 0.95 3.×6 656×363×488 48,5 59 1385×526×865 110/137 -5-43 25-43 Heating and cooling 25-43 20-60 220-240-50, 1f 1/3 1.43 1.45/4 BSP external 0.3 16</td>	1 R32/675 1.4 0.95 3.×6 656×363×488 48,5 59 1385×526×865 110/137 -5-43 25-43 Heating and cooling 25-43 20-60 220-240-50, 1f 1/3 1.43 1.45/4 BSP external 0.3 16
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure leve Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	el weight Cooling Heating DHW Space cooling Space heating DHW DHW DHW DHW Conver supply Number of heating stages / Power Makinum operating current Water connections PPressure relief valve Condensate drain Expansion tank	Quantity Type / GWP Quantity (W1×W2×D) (W+D×H) (W+D×H) (W+D×H)	TCO_seq pcs x mm² mm dB(A) dB(A) mm gc ec ec <td>1 R32 / 675 1.4 0,95 3 × 6 656 × 363 × 488 48,5 59 145×560×1035 110/137 -5-43 -25-43 Heating and coling 5-25 20×20+50,11 135 41,91mm (G5/4* BSP) external 0,3 16 8/4,8</td>	1 R32 / 675 1.4 0,95 3 × 6 656 × 363 × 488 48,5 59 145×560×1035 110/137 -5-43 -25-43 Heating and coling 5-25 20×20+50,11 135 41,91mm (G5/4* BSP) external 0,3 16 8/4,8
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	el 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	Quantity Type / GWP Quantity (W1×W2×D) (W×D×H) (W×D×H) (W×D×H) Total volume / Actual volume Maximum pressure / Initial pressure	TCO_seq pcs x mm² mm dB(A) dB(A) mm gc ec ec <td>1 1 R32 / 675 1 1 1 R32 / 675 1 1 1 095 3 × 6 6 656 × 363 × 488 6 6 6 656 × 363 × 488 1 1 6 656 × 363 × 488 1 1 6 1 1 6 1 1 1 1 1 3 1 1 1 1 1 1 1 1</td>	1 1 R32 / 675 1 1 1 R32 / 675 1 1 1 095 3 × 6 6 656 × 363 × 488 6 6 6 656 × 363 × 488 1 1 6 656 × 363 × 488 1 1 6 1 1 6 1 1 1 1 1 3 1 1 1 1 1 1 1 1
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	el veight Cooling Heating DHW Space cooling Space heating DHW DHW DOHW tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger	Quantity Type / GWP Quantity (W1-W2×D) (W>D>H) (W>D>H) (W>D>H) (W>D>H) Total volume / Actual volume Maximum pressure / Initial pressure Type	TCO_eq pcs x mm² mm dB(A) mm kg ec mm dB mm l MPa min Umin	1 R32 / 675 1.4 0.95 3. × 6 656 × 363 × 488 1.4 656 × 363 × 488 1.4 656 × 363 × 488 1.38×52×865 1.38×52×8655 1.38×52×8655 1.38×52×8655 1.10137 .465×560×1035 1.10137 .5-43 .25-43 Heating and cooling .25-43 .25-45 .25-45
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	el veight Cooling Heating DHW Space cooling Space heating DHW Power supply Number of heating stages / Power Maximum operating current Water connections PPressure relief valve Condensate drain Expansion tank Heat exchanger Water pump head	Quantity Type / GWP Quantity (W1-W2×D) (W>D>H) (W>D>H) (W>D>H) (W>D>H) Total volume / Actual volume Maximum pressure / Initial pressure Type	TCO_eq pcs x mm² mm dB(A) dB(A) mm mm ec	1 R32 / 675 1.4 0.95 3. × 6 656 x 363 x 488 1.4 48,5 59 1.183×52×865 1.10/137 1.6 25-43 Heating and cooling 25-43 20-240-50, 1f 1.73 1.35 1.13 1.20-240-50, 1f 1.13 1.35 1.6 3.3 1.6 3.3 1.6 3.3 (0.1 1.6 3.3 (0.1 1.6 3.3 (0.1 1.6 3.3 (0.1 <td< td=""></td<>
Refrigerant Minimal wire pcs and Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature Electric heater	el veight Cooling Heating DHW Space cooling Space heating DHW DHW DOHW tank) Power supply Number of heating stages / Power Maximum operating current Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger	Quantity Type / GWP Quantity (W1-W2×D) (W>D>H) (W>D>H) (W>D>H) (W>D>H) Total volume / Actual volume Maximum pressure / Initial pressure Type	TCO_eq pcs x mm² mm dB(A) mm kg ec mm dB mm l MPa min Umin	1 R32 / 675 1.4 0.95 3. × 6 656 × 363 × 488 1.4 656 × 363 × 488 1.4 656 × 363 × 488 1.38×52×865 1.38×52×8655 1.38×52×8655 1.38×52×8655 1.10137 .465×560×1035 1.10137 .5-43 .25-43 Heating and cooling .25-43 .25-45 .25-45

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

(1) Seasonale rise gy entinemy class measure of the unit 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 in measured 1m in from 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 20702: 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 Idm: 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.