

## Airmi Monoblock heat pump

AIMB100X1 [R14]

























## **Device** features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C A++



Maximum COP 5,01



Operating range down to -25°C



Supply water temperature of 65°C



Smart Grid functionality



Twin rotary compressor



Integrated electric



Outdoor unit drip tray heater



Compressor crankcase heate



Easy installation and maintenance



Silent



WiFi module in 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



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



Prepared to create a cascade system



Modbus Protocol



## **Specification** outdoor unit

Model				
EAN Codo				AIMB100X1 R14
EAN Code				5905567602436
Power supply			V-Hz, Ø	220-240~50, 1f
Heating	Capacity		kW	10,20
(A7/W35)	Rated input		kW	2,04
	COP			5,01
	Capacity		kW	10,20
Heating (A7/W45)	Rated input		kW	2,79
(	COP			3,65
	Capacity		kW	9,60
Heating (A7/W55)	Rated input		kW	3,22
(877433)	COP			2,98
	Capacity		kW	10,10
Cooling	Rated input		kW	2,42
(A35/W18)  -	EER			4,14
	Capacity		kW	8,80
Cooling	ing Rated input		kW	2,97
(A35/W/)	EER			2,96
	SCOP (1)			4,86
	Rated heat output		kW	9,2
Jeasonal energy	Seasonal energy efficiency ratio (ηS)		96	
1 M.C+ 250C				206
	Annual energy consumption		kWh	3617
	Seasonal space heating energy efficiency class (1)			A+++
-	SCOP (1)			3,51
Jeasonal energy	Rated heat output		kW	7,70
	Seasonal energy efficiency ratio (ηS)		96	139
LWT at 55°C	Annual energy consumption		kWh	4453
	Seasonal space heating energy efficiency class <sup>(1)</sup>			A++
CEED	LWT at 7°C			4,66
SEER LWT at 18°C				8.23
Maximum overcurrent protection (MOP)			A	32
Minimum circuit amp	ps (MCA)		A	32
Compressor		Туре		Twin rotary inverter compressor DC
	Туре			Brushless DC motor / BLDC
Fan		Quantity		1
	Type			R32
		GWP		675
Refrigerant		5	len	1,5
		Quantity	kg	
0.1. 5.11			TCO <sub>2</sub> eq	1,013
Outdoor unit wiring			pcs × mm²	3×10
Bracket spacing		(W1 × W2 × D)	mm	640×239×448
Sound pressure level			dB(A)	46
	Sound power level		dB(A)	60
Net dimensions (W				
		(W x D x H)	mm	1135×488×803
Gross dimensions		(W x D x H) (W x D x H)		1135 × 488 × 803 1260 × 488 × 982
	veight		mm	1260 × 488 × 982 99 / 114
Gross dimensions  Net weight / Gross we  Operating outdoor	veight Cooling / Heating		mm	1260 × 488 × 982 99 / 114 -5-43 / -25-35
Gross dimensions  Net weight / Gross we  Operating outdoor			mm mm kg	1260 × 488 × 982 99 / 114
Gross dimensions  Net weight / Gross we  Operating outdoor	Cooling / Heating		mm mm kg °C	1260 × 488 × 982 99 / 114 -5-43 / -25-35
Gross dimensions  Net weight / Gross we  Operating outdoor temperature  Operation modes	Cooling / Heating		mm mm kg °C	1260 × 488 × 982 99 / 114 -5-43 / -25-35 -25-43
Gross dimensions  Net weight / Gross we  Operating outdoor temperature  Operation modes  Leaving water	Cooling / Heating  DHW		mm kg °C °C	1260 × 488 × 982 99 / 114 -5-43 / -25-35 -25-43 Heating and cooling
Gross dimensions  Net weight / Gross we  Operating outdoor temperature  Operation modes  Leaving water temperature	Cooling / Heating DHW Space cooling		mm kg °C °C	1260 × 488 × 982 99 / 114 -5-43 / -25-43 Heating and cooling 7-25
Gross dimensions  Net weight / Gross we Operating outdoor temperature  Operation modes  Leaving water temperature	Cooling / Heating  DHW  Space cooling  Space heating		mm kg °C °C °C	1260 × 488 × 982 99 / 114 -5-43 / -25-43 Heating and cooling 7-25 25-65
Gross dimensions Net weight / Gross we Operating outdoor temperature Operation modes Leaving water temperature Electric heater	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply		mm   mm   kg   °C   °C   °C   °C   °C   V-Hz, Ø	1260 × 488 × 982 99 / 114 -5-43 / -25-35 -25-43 Heating and cooling -7-25 -25-65 -25-60
Gross dimensions  Net weight / Gross we Operating outdoor temperature  Operation modes  Leaving water temperature  Electric heater	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply Number of heating stages		mm kg °C °C °C °C V-Hz, Ø pcs	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f
Gross dimensions Net weight / Gross we Operating outdoor temperature Operation modes Leaving water temperature Electric heater	Cooling / Heating  DHW  Space cooling  Space heating  DHW(tank)  Power supply  Number of heating stages  Power		mm   mm   kg   °C   °C   °C   °C   °C   V-Hz, Ø	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3
Gross dimensions Net weight / Gross we Operating outdoor temperature Operation modes Leaving water temperature Electric heater	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current		mm   mm   kg   °C   °C   °C   °C   V-Hz, Ø   pcs   kW	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3  13,6
Gross dimensions  Net weight / Gross we Operating outdoor temperature  Operation modes  Leaving water temperature  Electric heater	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections		mm kg °C °C °C °C V-Hz, Ø pcs kW	1260 × 488 × 982  99 / 114  -5-43 · 25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50.1f  1  3  13,6  Ф33 (1,30)
Gross dimensions  Net weight / Gross we Operating outdoor temperature Operation modes  Leaving water temperature  Electric heater	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections Pressure relief valve		mm kg °C °C °C °C VHz, Ø pcs kW	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3  13,6  Φ33 (1,30)  0,5
Gross dimensions  Net weight / Gross we Operating outdoor temperature  Operation modes  Leaving water temperature  Electric heater	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections	(W×D×H)	mm kg °C °C °C °C V-Hz, Ø pcs kW	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3  13.6  433 (1.30)  0.5  412,7
Gross dimensions  Net weight / Gross we Operating outdoor temperature Operation modes  Leaving water temperature  Electric heater	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 x D x H)	mm kg °C °C °C °C V-Hz, Ø pcs kW mm (inch)	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3  13.6  433 (1,30)  0,5  4012,7
Gross dimensions  Net weight / Gross we Operating outdoor temperature  Operation modes  Leaving water temperature  Electric heater	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 x D x H)  Total volume  Actual volume	mm   kg   °C   °C   °C   °C   °C   °C   °C   °	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1 3 3 13,6 433 (1,30) 0,5 412,7 5
Gross dimensions  Net weight / Gross we Operating outdoor temperature  Operation modes  Leaving water temperature  Electric heater	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 x D x H)  Total volume Actual volume Maximum pressure	mm   mm   kg   °C   °C   °C   °C   °C   °C   °C   w.Hz, Ø   pcs   kW   mm (inch)   MPa   mm   I   I   MPa	1260 × 488 × 982  99 / 114  -5-43 · 25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50.1f  1  3  13.6  493 (1,30)  0.5  4012,7  5  2  0.5
Gross dimensions Net weight / Gross we Operating outdoor temperature Operation modes Leaving water temperature Electric heater	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 x D x H)  Total volume  Actual volume	mm   kg   °C   °C   °C   °C   °C   °C   °C   °	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1 3 3 13,6 433 (1,30) 0,5 412,7 5
Gross dimensions Net weight / Gross we Operating outdoor temperature Operation modes Leaving water temperature Electric heater  Water circuit	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 x D x H)  Total volume Actual volume Maximum pressure	mm   mm   kg   °C   °C   °C   °C   °C   °C   °C   w.Hz, Ø   pcs   kW   mm (inch)   MPa   mm   I   I   MPa	1260 × 488 × 982  99 / 114  -5-43 · 25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50.1f  1  3  13.6  493 (1,30)  0.5  4012,7  5  2  0.5
Gross dimensions  Net weight / Gross we  Operating outdoor temperature  Operation modes  Leaving water temperature  Electric heater  Water circuit	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 x D x H)  Total volume Actual volume Maximum pressure Initial pressure	mm   mm   kg   °C   °C   °C   °C   °C   °C   °C   w.Hz, Ø   pcs   kW   mm (inch)   MPa   mm   I   I   MPa	1260 × 488 × 982  99/114  -5-43 · 25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3  3  13,6  4033 (1,30)  0,5  412,7  5  2  0,5  0,15
Gross dimensions  Net weight / Gross we Operating outdoor temperature Operation modes  Leaving water temperature  Electric heater  Water circuit	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 x D x H)  Total volume  Actual volume  Maximum pressure  Initial pressure  Type	mm kg °C °C °C °C V-Hz, Ø pcs kW MPa mm I I I MPa MPa MPa Vmin	1260 × 488 × 982  99/114  -5-43 · 25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3  3  13.6  4033 (1.30)  0,5  412,7  5  2  0,5  0,15  PHE / plate heat exchanger
Gross dimensions  Net weight / Gross we  Operating outdoor temperature  Operation modes  Leaving water temperature  Electric heater  Water circuit	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 x D x H)  Total volume  Actual volume  Maximum pressure  Initial pressure  Type	mm kg °C °C °C °C V-Hz, Ø pcs kW mm (inch) MPa mm I MPa MPa MPa	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3  13.6  433 (1,30)  0,5  412,7  5  2  0,5  412,7  5  PHE / plate heat exchanger  10
Gross dimensions  Net weight / Gross we  Operating outdoor temperature  Operation modes  Leaving water temperature  Electric heater  Water circuit	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 x D x H)  Total volume  Actual volume  Maximum pressure  Initial pressure  Type	mm kg °C °C °C °C V-Hz, Ø pcs kW MPa mm I I I MPa MPa MPa Vmin	1260 × 488 × 982  99 / 114  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  220-240-50, 1f  1  3  3  13,6  433 (1,30)  0,5  412,7  5  2  0,5  0,15  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)Zm (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.