

## Airmi Monoblock heat pump

AIMW140X3 [R14]

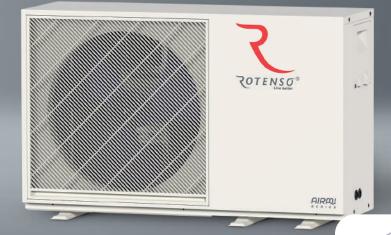
















## **Device** features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C A++



Maximum COP 4,84



Operating range down to -25°C



Supply water temperature of 65°C



Smart Grid functionality



Twin rotary



Integrated electric



Outdoor unit drip tray heater



Compressor crankcase heat



Easy installation



Silent mode



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				AIMW140X3 R14
EAN Code				5905567602450
Power supply			V-Hz, Ø	380-420~50, 3f
	Capacity		kW	14,50
Heating	Rated input		kW	2,99
(A7/W35)			KVV	
	COP			4,84
Hi	Capacity		kW	14,50
(A7/W45)	Rated input		kW	3,89
(071113)	COP			3,72
	Capacity		kW	13,80
Heating	Rated input		kW	4,52
(A7/W55)			KIV	
	COP			3,12
Cooling	Capacity		kW	14,10
(A35/W18)	Rated input		kW	3,10
(,	EER			4,56
	Capacity		kW	14,30
Cooling	Rated input		kW	5,11
(A35/W7)	EER		1	2,80
	SCOP (1)			4,67
Seasonal energy	Rated heat output		kW	13,2
efficiency	Seasonal energy efficiency ratio (ηS)		96	184
LWT at 35°C	Annual energy consumption		kWh	5821
	Seasonal space heating energy efficie	ncy class <sup>(1)</sup>		A+++
	SCOP (I)			3,62
	Rated heat output		Jan.	
Seasonal energy			kW	12,40
efficiency LWT at 55°C	Seasonal energy efficiency ratio (ηS)		96	142
LWI at 55°C	Annual energy consumption		kWh	7054
	Seasonal space heating energy efficiency class <sup>(1)</sup>			A++
	LWT at 7°C			5,59
SEER	LWT at 18°C			8,33
Minimum rated curr	rent of the overcurrent circuit breaker w	ith breaker type	A	B25
Compressor		Туре		Twin rotary inverter compressor DC
Fan	Type Type			Brushless DC motor / BLDC
		Quantity		1
Type GWP			R32	
		GWP		675
Refrigerant			kg	2,1
		Quantity	TCO <sub>2</sub> eq	1,417
Minimal wire pcs and dimension of cords*				5×4
	id differision of cords.		pcs × mm²	
Bracket spacing		(W1 × W2 × D)	mm	654×280×493
Sound pressure leve	el		dB(A)	50
Sound power level			dB(A)	65
Net dimensions				
Gross dimensions		(W x D x H)	mm	1203 × 493 × 860
		(W x D x H) (W x D x H)		1203×493×860 1285×495×1040
Net weight / Gross v	weight		mm	1285×495×1040
Net weight / Gross v			mm mm kg	1285 × 495 × 1040 140 / 159
Operating outdoor	Cooling / Heating		mm mm kg °C	1285 × 495 × 1040 140 / 159 -5-43 / -25-35
Operating outdoor temperature			mm mm kg	1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43
Operating outdoor	Cooling / Heating DHW		mm kg °C	1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling
Operating outdoor temperature Operation modes	Cooling / Heating		mm mm kg °C	1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43
Operating outdoor temperature Operation modes Leaving water	Cooling / Heating DHW		mm kg °C	1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling
Operating outdoor temperature Operation modes	Cooling / Heating DHW Space cooling		mm mm kg °C °C	1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25
Operating outdoor temperature Operation modes Leaving water	Cooling / Heating DHW  Space cooling Space heating DHW(tank)		mm kg °C °C °C	1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 25-65
Operating outdoor temperature Operation modes Leaving water	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply		mm   mm   kg   °C   °C   °C   °C   °C   V-Hz, Ø	1285 × 495 × 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling -7-25 -25-65 -25-60 -380-420-50, 3f
Operating outdoor temperature Operation modes Leaving water	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	1285 x 495 x 1040 140 / 159 -5-43 / -25-35 -25-43 Heating and cooling 7-25 -25-66 -25-60 -380-420-50, 3f -3
Operating outdoor temperature Operation modes Leaving water temperature	Cooling / Heating DHW  Space cooling Space heating DHW(tank) Power supply Number of heating stages Power		mm   mm   kg   °C   °C   °C   °C   V-Hz, Ø   pcs   kW	1285 x 495 x 1040  140 / 159  5-43 / -25-35  25-43  Heating and cooling  7-25  25-65  25-60  380-420-50, 3f  3
Operating outdoor temperature Operation modes Leaving water temperature	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current		mm kg °C °C °C V-Hz, Ø pcs kW A	1285 × 495 × 1040  140 / 159  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  380-420-50, 3f  3  9  13.6
Operating outdoor temperature Operation modes Leaving water temperature	Cooling / Heating DHW  Space cooling Space heating DHW(tank) Power supply Number of heating stages Power		mm   mm   kg   °C   °C   °C   °C   V-Hz, Ø   pcs   kW	1285 x 495 x 1040  140 / 159  5-43 / -25-35  25-43  Heating and cooling  7-25  25-65  25-60  380-420-50, 3f  3
Operating outdoor temperature Operation modes Leaving water temperature	Cooling / Heating DHW  Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current		mm kg °C °C °C V-Hz, Ø pcs kW A	1285 × 495 × 1040  140 / 159  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  380-420-50, 3f  3  9  13.6
Operating outdoor temperature Operation modes Leaving water temperature	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 A mm (inch)	1285 × 495 × 1040  140 / 159  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  380-420-50, 3f  3  9  13,6  Ф33 (1,30)
Operating outdoor temperature Operation modes Leaving water temperature	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)	mm kg °C °C °C °C V-Hz, Ø pcs kW A mm (inch) MPa	1285 x 495 x 1040  140 / 159  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  380-420-50, 3f  3  9  13,6  Ф33 (1,30)  0,3
Operating outdoor temperature Operation modes Leaving water temperature	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 A mm (inch) MPa mm	1285 x 495 x 1040  140 / 159  5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-66  380-420-50, 3f  3  9  13,6  433 (1,30)  0,3  412,7  5
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	mm kg °C °C °C °C °C V-Hz, Ø pcs kW A mm (inch) MPa mm	1285 x 495 x 1040  140 / 159  5-43 / -25-35  -25-43  Heating and cooling  7-25  25-66  25-66  25-60  380-420-50, 3f  3  9  13.6  433 (1,30)  0,3  412,7  5  2
Operating outdoor temperature Operation modes Leaving water temperature	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	mm kg °C °C °C °C °C V-Hz Ø MPa mm I I MPa	1285 × 495 × 1040  140 / 159  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-66  380-420-50.3f  3  9  13.6  Ф33 (1,30)  0,3  Ф12,7  5  2  0,5
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 V-Hz, Ø pcs kW A mm (inch) MPa mm	1285 × 495 × 1040  140 / 159  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-66  380-420-50, 3f  3  9  13,6  Ф33 (1,30)  0,3  Ф12,7  5  2  0,5  0,15
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  Expansion tank	(W x D x H)  Total volume Actual volume Maximum pressure	mm kg °C °C °C °C °C V-Hz Ø MPa mm I I MPa	1285 × 495 × 1040  140 / 159  5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-66  25-60  380-420-50.3f  3  9  13.6  Ф33 (1,30)  0,3  Ф12.7  5  2  0,5
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 Maximum pressure Initial pressure	mm kg °C °C °C °C °C V-Hz Ø MPa mm I I MPa	1285 x 495 x 1040  140 / 159  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-65  25-60  380-420-50, 3f  3  9  13,6  Ф33 (1,30)  0,3  Ф12,7  5  2  0,5  0,15
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  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 A mm (inch) MPa mm I MPa MPa MPa	1285 x 495 x 1040  140 / 159  -5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  380-420-50, 3f  3  9  13,6  433 (1,30)  0,3  412,7  5  2  0,5  0,15  PHE / plate heat exchanger
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  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 A mm (i h MPa M	1285 x 495 x 1040 140 / 159 140 / 159 15-43 / 25-25 25-43 Heating and cooling 7-25 25-65 25-60 380-420-50, 3f 3 9 13,6 433 (1,30) 0,3 4012,7 5 5 2 0,5 9 PHE / plate hast exchanger 10
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  Expansion tank Heat exchanger Water pump head Water pump head	(W x D x H)  Total volume  Actual volume  Maximum pressure  Initial pressure  Type	mm kg °C °C °C °C °C °C V-Hz Ø pcs kW A mm (inch) MPa mpa MPa MPa	1285 x 495 x 1040  140 / 159  1-5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-66  25-60  380-420-50, 3f  3  9  13,6  433 (1,30)  0,3  412,7  5  2  0,5  PHE / plate heat exchanger  10  9  DC inverter
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  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 A mm (i h MPa M	1285 × 495 × 1040  140 / 159  1-5-43 / -25-35  -25-43  Heating and cooling  7-25  25-65  25-60  380-420-50, 3f  3  9  13.6  433 (1,30)  0,3  412,7  5  2  0,5  0,5  0,15  PHE / plate heat exchanger  10  9

<sup>(1)</sup> Seasonal energy efficiency class measured under average climate conditions.

(T) Seasonal energy enlicative Custom Readured United average united Exhibitions.

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.