

Windmi Monoblock heat pump

WIM120X3 ^[R14]



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Device features

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|
Environmentally friendly refrigerant R32 |
Efficient heating |
Energy efficiency class at 35°C A+++ |
Energy efficiency class at 55°C A++ |
Maximum COP 4,75 ⁽¹⁾ |
Operating range down to -25°C |
Supply water temperature of 62°C |
Programmable Dry Contact |
|
Twin rotary compressor |
Integrated electric heater |
Outdoor unit drip tray heater |
Compressor crankcase heater |
Easy installation and maintenance |
WiFi module in wired controller |
Daily operation schedule |
Configurable weekly schedules |
|
Vacation mode |
Integrated temperature sensor |
Weather operating modes (climate curve) |
Dedicated application |
Disinfection |
Maximum leaving water temperature of 62°C (in DHW mode) |
Modbus Protocol | |

Rotenso reserves the right to make changes to its products without prior notice.

Specification outdoor unit

Model			WIM120X3 R14	
EAN Code			5905567602306	
Power supply		V-Hz, Ø	380-420-50, 3f	
Heating (A7/W35)	Capacity	kW	12,00	
	Rated input	kW	2,53	
	COP		4,75	
Heating (A7/W45)	Capacity	kW	12,00	
	Rated input	kW	3,38	
	COP		3,55	
Heating (A7/W55)	Capacity	kW	11,50	
	Rated input	kW	4,04	
	COP		2,85	
Cooling (A35/W18)	Capacity	kW	11,00	
	Rated input	kW	2,75	
	EER		4,00	
Cooling (A35/W7)	Capacity	kW	10,50	
	Rated input	kW	3,82	
	EER		2,75	
Seasonal energy efficiency LWT at 35°C	SCOP ⁽¹⁾		4,91	
	Rated heat output	kW	11,94	
	Seasonal energy efficiency ratio (η _S)	%	193	
	Annual energy consumption	kWh	4983	
	Seasonal space heating energy efficiency class ⁽¹⁾		A+++	
Seasonal energy efficiency LWT at 55°C	SCOP ⁽¹⁾		3,39	
	Rated heat output	kW	11,96	
	Seasonal energy efficiency ratio (η _S)	%	133	
	Annual energy consumption	kWh	7222	
	Seasonal space heating energy efficiency class ⁽¹⁾		A++	
SEER	LWT at 7°C		5,04	
	LWT at 18°C		6,60	
Minimum rated current of the overcurrent circuit breaker with breaker type		A	B25	
Compressor		Type	Twin rotary inverter compressor DC	
Fan	Type		Brushless DC motor / BLDC	
	Quantity		2	
Refrigerant	Type		R32	
	GWP		675	
	Quantity	kg	2,2	
		TCO _{eq}	1,49	
Minimal wire pcs and dimension of cords*		pcs × mm ²	5 × 4	
Bracket spacing		(W1 × D)	mm	
			636 × 320 × 456	
Sound pressure level		dB(A)	56	
Sound power level		dB(A)	69	
Net dimensions		(W × D × H)	mm	
			1302 × 456 × 1425	
Gross dimensions			mm	
			1364 × 485 × 1600	
Net weight / Gross weight		kg	170 / 190	
Operating outdoor temperature	Cooling / Heating	°C	-5-50 / -25-43	
	DHW	°C	-25-43	
Operation modes			Heating and cooling	
Leaving water temperature	Space cooling	°C	5-25	
	Space heating	°C	25-62	
	DHW (tank)	°C	40-62	
Electric heater	Power supply	V-Hz, Ø	380-420-50, 3f	
	Number of heating stages	pcs	3	
	Power	kW	9	
Maximum operating current		A	13,6	
Water circuit	Water connections		mm(inch)	
			Ø31,75 (1,25)	
	Pressure relief valve		MPa	
			0,6	
	Condensate drain		mm	
			20	
	Expansion tank	Total volume		l
				5
		Actual volume		l
				5
Maximum pressure		MPa		
		1		
Initial pressure		MPa		
		0,15		
Heat exchanger	Type		PHE / plate heat exchanger	
	Minimum flow		l/min	
			12	
Water pump head		m	9	
Water pump type			DC	
Total water volume		l	1,45	

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

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 1In: 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.