

Windmi Monoblock heat pump

WIM120X3 [R14]











Device features



Environmentally friendly refrigerant R32



Efficient heating



Energy efficiency class at 35°C



Energy efficiency class at 55°C A++



Maximum COP 4,75 (1)



Operating range down to -25°C



Supply water temperature of 62°C



Programmable Dry Contact



Twin rotary compressor



Integrated electric



Outdoor unit drip tray heater



Compressor crankcase heat



Easy installation



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



Specification outdoor unit

Model				WIM120X3 R14
EAN Code				5905567602306
Power supply			V-Hz, Ø	380-420-50, 3f
	Capacity		kW	12,00
Heating			kW	2,53
(A7/W35)	Rated input		KVV	
	COP			4,75
	Capacity		kW	12,00
Heating (A7/W45)	Rated input		kW	3,38
(A7/VV45)	COP			3,55
	Capacity		kW	11,50
Heating	Rated input			
(A7/W55)			kW	4,04
	СОР			2,85
	Capacity		kW	11,00
Cooling	ooling Rated input (35/W18)		kW	2,75
(A35/W18)	EER			4,00
	Capacity		kW	10,50
Cooling				
(A35/W7)	Rated input		kW	3,82
	EER			2,75
	SCOP (1)			4,91
Seasonal energy	Rated heat output		kW	11,94
efficiency	Seasonal energy efficiency ratio (ηS)		96	193
LWT at 35°C	Annual energy consumption			
			kWh	4983
	Seasonal space heating energy efficiency class ⁽¹⁾			A+++
	SCOP (1)			3,39
Seasonal energy	Rated heat output		kW	11,96
efficiency	Seasonal energy efficiency ratio (ηS)		96	133
LWT at 55°C			kWh	7222
	Annual energy consumption		KYVII	
	Seasonal space heating energy efficiency class ⁽¹⁾			A++
SEER	LWT at 7°C			5,04
LWT at 18°C				6,60
Maximum overcurrent protection (MOP)			A	25
Minimum circuit amp			A	25
	ps (wen)	-		
Compressor		Туре		Twin rotary inverter compressor DC
Fan		Туре		Brushless DC motor / BLDC
	Quantity			2
		Туре		R32
	GWP			675
Refrigerant			kg	2,2
		Quantity		
		TCO ₂ eq	1,49	
				5×4
Power cables: outdoo	por unit		il. × mm²	
Power cables: outdoo Bracket spacing	por unit	(W1 × D)	mm	636 × 320 × 456
		(W1 × D)		636 × 320 × 456 56
Bracket spacing Sound pressure level		(W1 × D)	mm dB(A)	56
Bracket spacing Sound pressure level Sound power level			mm dB(A) dB(A)	56 69
Bracket spacing Sound pressure level Sound power level Net dimensions		(W1 × D) (W × D × H)	mm dB(A) dB(A) mm	56 69 1302 × 456 × 1425
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions	el		mm dB(A) dB(A) mm mm	56 69 1302 × 456 × 1425 1364 × 485 × 1600
Bracket spacing Sound pressure level Sound power level Net dimensions	el veight		mm dB(A) dB(A) mm mm kg	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions	el		mm dB(A) dB(A) mm mm	56 69 1302 × 456 × 1425 1364 × 485 × 1600
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w	el veight		mm dB(A) dB(A) mm mm kg	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature	el veight Cooling / Heating		mm dB(A) dB(A) mm mm kg °C	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / -25-43
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor	veight Cooling / Heating DHW		mm dB(A) dB(A) mm mm kg °C °C	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature	veight Cooling / Heating DHW Space cooling		mm dB(A) dB(A) mm mm kg °C °C	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / -25-43 -25-43 Heating and cooling 5-25
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes	veight Cooling / Heating DHW Space cooling Space heating		mm dB(A) dB(A) mm mm kg °C °C °C	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / -25-43 -25-43 Heating and cooling 5-25 25-62
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water	veight Cooling / Heating DHW Space cooling		mm dB(A) dB(A) mm mm kg °C °C	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / -25-43 Heating and cooling 5-25 25-62 40-62
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water	veight Cooling / Heating DHW Space cooling Space heating		mm dB(A) dB(A) mm mm kg °C °C °C	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / -25-43 -25-43 Heating and cooling 5-25 25-62
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply		mm dB(A) dB(A) mm mm kg °C °C °C °C	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / -25-43 Heating and cooling 5-25 25-62 40-62
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water	veight Cooling / Heating DHW Space cooling Space heating DHW(tank) Power supply Number of heating stages		mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs	56 69 1302 x 456 x 1425 1364 x 485 x 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling -5-25 25-62 40-62 380-420-50,3f 3
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power		mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW	56 69 1302 x 456 x 1425 1364 x 485 x 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current		mm dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø pcs kW A	56 69 1302 x 456 x 1425 1304 x 485 x 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13,6
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections		mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch)	56 69 1302 x 456 x 1425 1304 x 485 x 1600 170 / 190 -5-50 / -25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13,6
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current		mm dB(A) dB(A) mm mm kg °C °C °C V-Hz, Ø pcs kW A	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13,6
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Maximum operating current Water connections		mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch)	56 69 1302 x 456 x 1425 1304 x 485 x 1600 170 / 190 -5-50 / -25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13,6
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight 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 dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch)	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / -25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50.3f 3 9 13,6 4931,75 (1,25) 0,6
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operating water temperature	veight 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)	mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm	56 69 1302 x 456 x 1425 1364 x 485 x 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling -5-25 25-62 40-62 380-420-50.3f 3 9 13.6 431,75 (1,25) 0.6 20 5
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	veight 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) Total volume Actual volume	mm dB(A) dB(A) mm mm kg °C °C °C C V-Hz, Ø pcs kW A mm(inch) MPa mm I	56 69 1302 × 456 × 1425 1364 × 485 × 1600 1707 / 190 -5-507 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13,6 031,75 (1,25) 0,6 20 5 5
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Net weight / Gross w Operating outdoor temperature Operation modes Leaving water temperature	veight 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) Total volume Actual volume Maximum pressure	mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm I I MPa	56 69 1302 × 456 × 1425 1364 × 485 × 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13.6 031,75 (1,25) 0.6 20 5 5 5
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	veight 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) Total volume Actual volume	mm dB(A) dB(A) mm mm kg °C °C °C C V-Hz, Ø pcs kW A mm(inch) MPa mm I	56 69 1302 × 456 × 1425 1304 × 485 × 1600 1707 190 -5-507 × 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13.6 631,75 (1,25) 0,6 20 5 5 5 1
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight 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) Total volume Actual volume Maximum pressure	mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm I I MPa	56 69 1302 x 456 x 1425 1364 x 485 x 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380 420-50, 3f 3 9 136 031.75 (1.25) 0.6 20 5 5 5
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight 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) Total volume Actual volume Maximum pressure Initial pressure	mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm I I MPa	56 69 1302 x 456 x 1425 1304 x 485 x 1600 1707 190 -5-50 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13.6 031,75 (1,25) 0,6 20 5 5 5 1
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight Cooling / Heating DHW Space cooling Space heating DHW (tank) Power supply Number of heating stages Power Water connections Pressure relief valve Condensate drain Expansion tank Heat exchanger	(W×D×H) Total volume Actual volume Maximum pressure Initial pressure	mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm I I Umin	56 69 1302 x 456 x 1425 1364 x 485 x 1600 170 / 190 -5-50 / -25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50.3f 3 9 13,6 631,75 (1,25) 0,6 20 5 5 5 1 1 0,15 PHE / plate heat exchanger
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight 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) Total volume Actual volume Maximum pressure Initial pressure	mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm I MPa MPa	56 69 1302 x 456 x 1425 1364 x 485 x 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-40-50.3f 3 9 13,6 931,75 (1,25) 0,6 20 5 5 1 0,15 PHE / plate heat exchanger
Bracket spacing Sound pressure level Sound power level Net dimensions Gross dimensions Operating outdoor temperature Operation modes Leaving water temperature Electric heater	veight 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 Water pump head	(W×D×H) Total volume Actual volume Maximum pressure Initial pressure	mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm I I MPa MPa	56 69 1302 x 456 x 1425 1364 x 485 x 1600 170 / 190 -5-50 / 25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 9 13,6 931,75 (1,25) 0,6 20 5 5 5 1 1 0,15 PHE / plate heat exchanger
Bracket spacing Sound pressure level Sound power level Net dimensions Operating outdoor temperature Operating outdoor temperature Leaving water temperature Electric heater	veight 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) Total volume Actual volume Maximum pressure Initial pressure	mm dB(A) dB(A) mm mm kg °C °C °C °C V-Hz, Ø pcs kW A mm(inch) MPa mm I I Umin	56 69 1302 × 456 × 1425 1364 × 485 × 1600 1707/190 -5-507/25-43 -25-43 Heating and cooling 5-25 25-62 40-62 380-420-50, 3f 3 9 13,6 931,75 (1,25) 0,6 20 5 5 5 1 0,15 PHE / plate heat exchanger

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

Notes: DHM: Onestic 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=6; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825, EN50564; EN12102; (EU) Np. 811/2013; (E