PUZ-WM50VHA-BS

AIR-TO-WATER HEAT PUMP

MITSUBISHI ELECTRIC

ecodan®

AIR-TO-WATER HEAT PUMP

Heating Capacity: 5kW
Cooling Capacity: 4.5kW

Key Benefits:

- ✓ Low operation costs
- ✓ Superior performance in cold conditions
- ✓ Low carbon footprint
- ✓ Whole home comfort
- ✓ Mitsubishi Electric quality
- ✓ Suitable for high density housing

High Efficiency Performance

5.00 COP*1

6.30 COP*2

52dBA*3

Key Features

Maintains Full Capacity at Low Ambient Temperatures

The PUZ-WM50VHA-BS can maintain its full heating capacity right down to -7°C*4, making it the dependable solution for year-round efficient water heating, and ultimate performance during the winter.

Ultra Quiet Noise Level

Specific design features ensure this Ecodan Series operates discreetly with industry leading noise levels rated at 52dBA*3. As a result homeowners can now choose the most convenient location for their Ecodan without disturbing neighbours.

Compact Size

The compact design makes it ideal for homes with limited outdoor space.

Anti-Corrosion Treatment

It is well known that salt spray from the ocean and onshore winds accelerate the corrosion of metal surfaces. While Ecodan standard models come with excellent corrosion resistance, the –BS models go a step further by treating external panels with acrylic resin and ensuring other key elements of the unit are given extra protection from salt spray in coastal environments.*5

Heating and Cooling Modes

As a reversible heat pump, the PUZ-WM50VHA-BS can heat or cool water loops, making it ideal for hydronic whole home comfort throughout the seasons.

High Efficiency Plate Heat Exchangers and Inverter Driven Compressor

High performance is achieved with the use of efficient plate heat exchanger technology, coupled with low Global Warming Potential R32 refrigerant, and inverter compressor technology.

*1 Under nominal heating conditions at outdoor temp 7°C, outlet water temp 35°C, inlet water temp 30°C, as tested to EN14511 standard.
*2 Under nominal cooling conditions at outdoor temp: 25°C, outlet water temp 18°C, inlet water temp 13°C, as tested to EN14511 standard.
*3 At 1m from outdoor unit.
*4 Under nominal heating conditions at outdoor temp -7°C, outlet water temp 45°C, inlet water temp 40°C, as tested to EN14511 standard.
*5 Regular maintenance inspections and washing the unit with fresh water are recommended. Any scratches should be repaired as soon as possible. Visit our website for more details.

Specifications

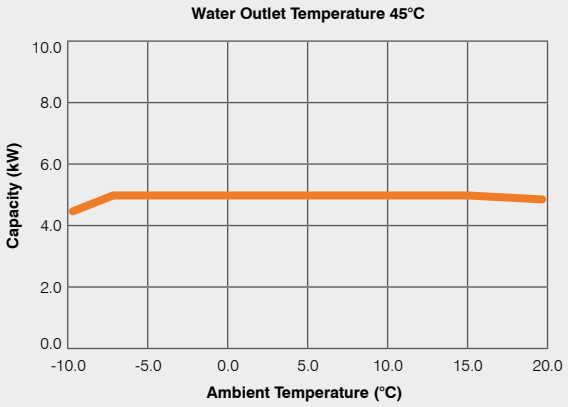
PUZ-WM50VHA-BS Air-to-Water Heat Pump

OUTDOOR UNIT			PUZ-WM50VHA(-BS)
WATER DATA	Outdoor Connection		1" BSP Parallel Thread ISO 228/1-G1B
	Heating Flow Rate Range	[L/min]	6.5 – 14.3
	Heating Flow Temp. Range	[°C]	20 – 60
	Cooling Flow Temp. Range	[°C]	5 – 25
OPERATING OUTDOOR TEMPERATURE RANGE	Heating	[°C DB]	-20 ~ +24
	DHW	[°C DB]	-20 ~ +35
NOISE	SPL at 1m	[dBA]	52*1
REFRIGERANT DATA	Type		R32
	Charge	[kg]	2
DIMENSIONS	Width	[mm]	950
	Depth	[mm]	330+30*2
	Height	[mm]	943
WEIGHT		[kg]	71
ELECTRICAL DATA	Electrical Supply		1ph, 230V, 50Hz
	Nominal Running Current (MAX)	[A]	4.64 (13)*3
	Fuse Rating	[A]	16

	CAPACITY (kW)	COP*4
HEATING		
A7 / W35	5	5.00
A2 / W35	5	3.70
A-7 / W35	5	3.00
COOLING		
A25 / W18	5	6.30
A30 / W18	4.5	5.40

A = Ambient Outside Air Temperature (°C)
W = Water Flow Temperature (°C)

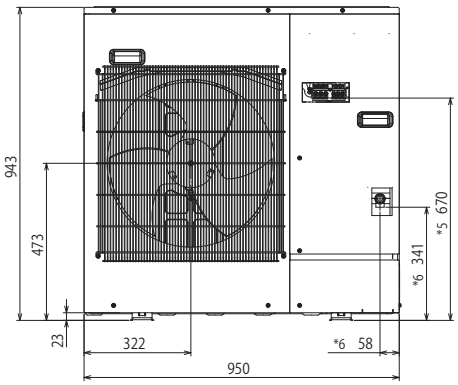
NOMINAL HEATING CAPACITY



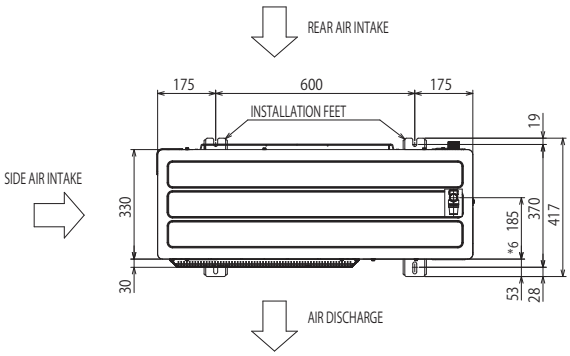
*1 Sound power level tested to BS EN12102.
*2 Grille.
*3 Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.
*4 Tested to EN14511.

PUZ-WM50VHA-BS Dimensions

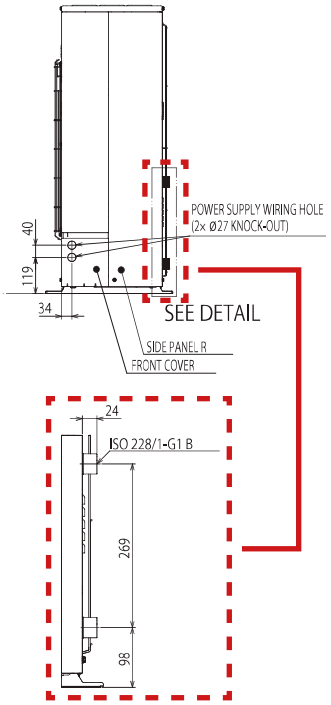
FRONT VIEW



UPPER VIEW



SIDE VIEW



All dimensions (mm)
*5 Indication of terminal connection location.
*6 Indication of pressure relief valve drain port.

For more information please visit our website or call our Hot Water Sales Team.
www.mitsubishi-electric.co.nz | 0800 784 382

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PLEASE LOOK AFTER THE ENVIRONMENT AND RECYCLE