



PUZ-WZ50-120VAA/YAA

R290 Monobloc Air Source Heat Pumps

The new R290 Ecodan monobloc air source heat pumps are designed specifically to suit the demands of the UK market and include 5, 6, 8.5, 10 and 12kW sizes.

The innovative, stylish and compact single fan outdoor unit utilises advanced technologies to deliver improved efficiencies. Designed for a wide range of applications, the market leading low noise levels virtually eliminate the need for planning permission, maximises installation options and is a viable solution for all types of domestic requirements that the UK housing market demands.

Key Features & Benefits

- A+++ heating efficiency
- Ultra quiet noise levels
- MELCloud enabled
- High water temperature of up to 75°C
- Fully electric source of heating and hot water
- Minimised energy consumption
- Flexible product placement
- Remote control, monitoring, maintenance and technical support
- Ideal for energy storage
- Zero carbon ready



Manufactured in the UK

R290



OUTDOOR UNIT		PUZ-WZ50VAA(-BS)	PUZ-WZ60VAA(-BS)	PUZ-WZ85VAA(-BS)	PUZ-WZ85YAA(-BS)	PUZ-WZ100VAA(-BS)	PUZ-WZ100YAA(-BS)	PUZ-WZ120VAA(-BS)	PUZ-WZ120YAA(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating (Range A+++ to D)	A++	A++	A++	A++	A++	A++	A++	A++
	η_{L}	138%	139%	143%	143%	141%	141%	142%	142%
	SCOP (MCS)	3.38	3.43	3.51	3.51	3.48	3.48	3.51	3.51
HEAT PUMP SPACE HEATER - 35°C	ErP Rating (Range A+++ to D)	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
	η_{L}	182%	179%	183%	183%	189%	189%	192%	192%
	SCOP (MCS)	4.42	4.39	4.47	4.47	4.62	4.62	4.71	4.71
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating (Range A+ to F)	A+	A+	A+	A+	A+	A+	A+	A+
	η_{wh}	143%	143%	137%	137%	129%	129%	129%	129%
HEATING ² (A-7/W35)	Capacity (kW)	5.2	6.2	8.5	8.5	10.0	10.0	11.5	11.5
	Power Input (kW)	1.94	2.51	3.27	3.27	3.70	3.70	4.69	4.69
	COP	2.68	2.47	2.60	2.60	2.70	2.70	2.45	2.45
OPERATING AMBIENT TEMPERATURE (°C DB)		-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46	-25 ~ +46
MAXIMUM WATER OUTLET TEMPERATURE (°C)		75	75	75	75	75	75	75	75
SOUND DATA ³	Pressure Level at 1m (dBA)	40	40	40	40	40	40	40	40
	Power Level (dBA) ⁴	56	56	54	54	55	55	55	55
WATER DATA	Pipework Size (mm)	22	22	28	28	28	28	28	28
	Flow Rate (l/min)	14	17	27	27	34	34	34	34
DIMENSIONS (mm)	Width	1050	1050	1050	1050	1050	1050	1050	1050
	Depth	480	480	480	480	480	480	480	480
	Height	1020	1020	1040	1040	1040	1040	1040	1040
WEIGHT (kg)		89	89	103	117	120	131	120	131
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
	Phase	Single	Single	Single	3	Single	3	Single	3
	Nominal Running Current [MAX] (A) ⁵	13	13	21	12	28	12	35	12
	Fuse Rating - MCB Sizes (A) ⁵	16	16	25	16	32	16	40	16
REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t)	R290 (GWP 0.02)	0.60 / 0.000012	0.60 / 0.000012	0.60 / 0.000012	0.60 / 0.000012	0.82 / 0.0000164	0.82 / 0.0000164	0.82 / 0.0000164	0.82 / 0.0000164

¹ Combination with EHPT20X-MEHEW Cylinder

² Under normal heating conditions at outdoor temp: -7°CDB / -8°CWB, outlet water temp 35°C, inlet water temp 30°C.

³ Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 55°C, inlet water temp 47°C as tested to BS EN14511.

⁴ Sound power level tested to BS EN12102.

⁵ Under nominal heating conditions at outdoor temp: 7°C, outlet water temp: 35°C.

⁶ MCB Sizes BS EN60898-2 & BS EN60947-2.

⁷ Quiet Mark certification is for PUZ-WZ85VAA/YAA(-BS), PUZ-WZ100VAA/YAA(-BS) and PUZ-WZ120VAA/YAA(-BS) models only.

η_{L} is the seasonal space heating energy efficiency (SHEE) η_{wh} is the water heating energy efficiency



Certificate Number: 037-0033-20-01 / 037-0159-25 / 037-0161-25
Product Type: Heat Pumps
Product Reference: PUZ-WZ50/60/85/100/120VAA/YAA(-BS)



CERTIFIED

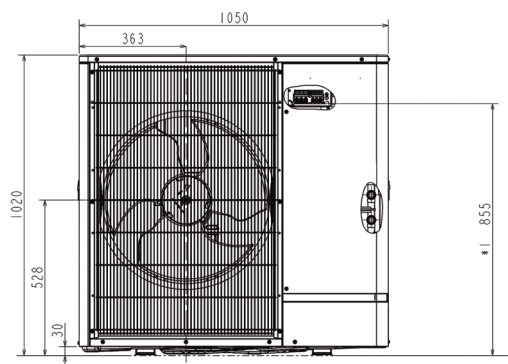
Certification Numbers:
037-0135-23-1/2/3/4
037-0159-25-1/2
037-0161-24-1/2/3/4

Product Dimensions

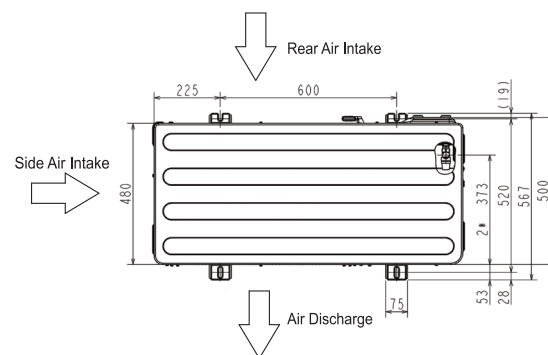
PUZ-WZ50-60VAA(-BS)

All measurements in mm

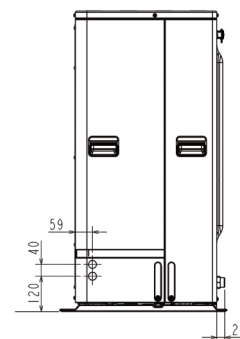
Front View



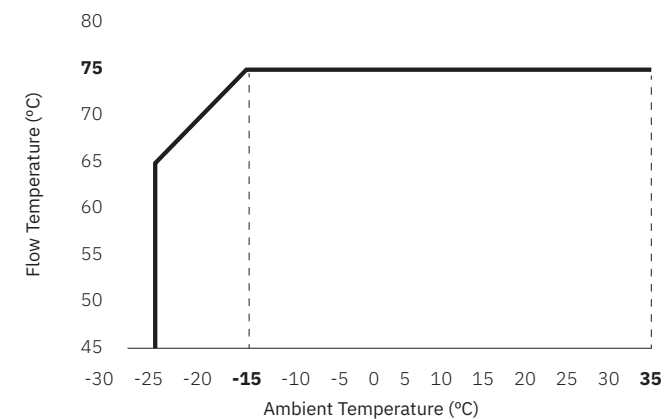
Upper View



Side View



Flow Temperature

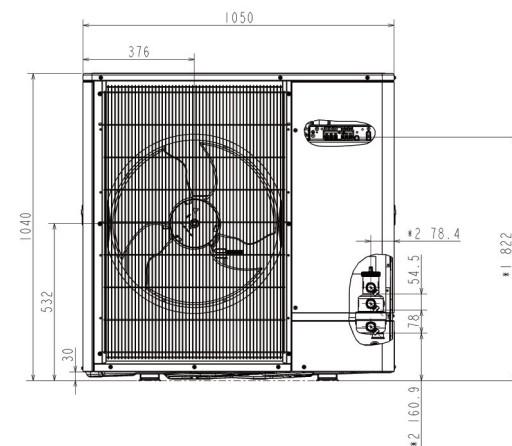


Product Dimensions

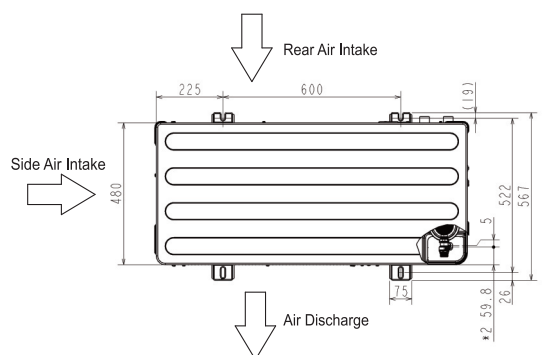
PUZ-WZ85-120VAA/YAA(-BS)

All measurements in mm

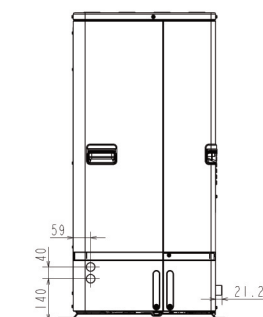
Front View



Upper View



Side View

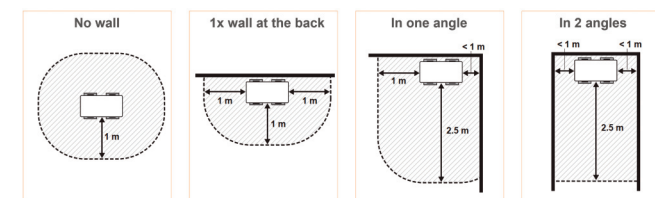
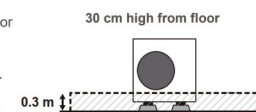


Protected Zones

No building openings, entrances to the basement, grooves or entrance into the waste-water system.

Must not extend to adjacent buildings or public traffic areas.

Ignition sources must not be present, either permanently or for a short period of time.





EHPT20X-MEHEW

FTC7 Packaged Cylinder for Ecodan Monobloc Units



The Packaged Cylinder provides a highly adaptable heating solution for all property types.

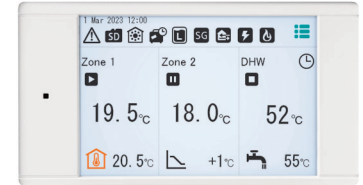
Designed to optimise performance within a compact white goods footprint, the plug and play packaged cylinder fully integrates with the Ecodan monobloc air source heat pump range. Advanced plate heat exchanger technology delivers superior heat up times and our rapid SD card commissioning, MELCloud Wi-Fi connectivity and energy monitoring functions are also included as standard.

Key Features & Benefits

- A+ hot water efficiency
- Stylish and modern aesthetics
- Packaged hot water, heating and controls
- Colour touch screen control
- MELCloud enabled
- Minimised energy consumption
- Flexible product placement
- Plug and play simple installation
- Intuitive user friendly operation
- Remote control, monitoring, maintenance and technical support

FTC7 Controller

Mitsubishi Electric's seventh generation controller (FTC7) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC7 also includes energy monitoring showing consumed and produced energy.



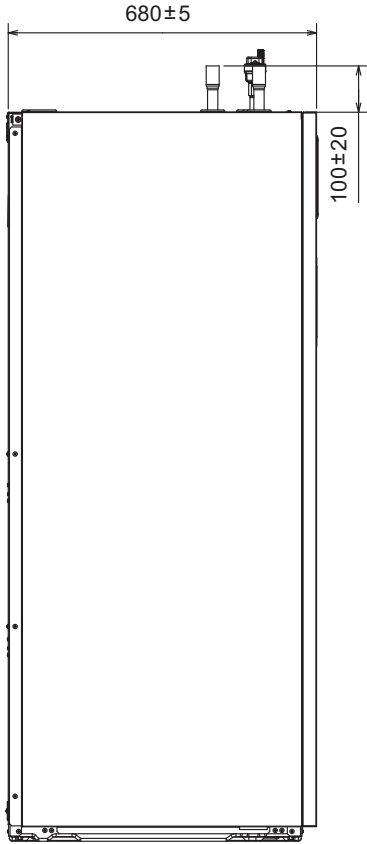
R290 R32

CYLINDER			EHPT20X-MEHEW
NOMINAL HOT WATER VOLUME (LITRES)			200
HEAT PUMP COMBINATION HEATER - Large Profile (Average Climate)			A+
OPERATING AMBIENT TEMPERATURE (°C DB)			0 ~ +35°C (RH<80%)
SOUND PRESSURE LEVEL AT 1M (dBA)			28
WATER DATA			Flow Rate (l/min) - with R32 Heat Pump 5 / 6 / 8.5 / 11.2 / 14kW
			- with R290 Heat Pump 5 / 6 / 8.5 / 10 / 12kW
			Primary Circuit Pump
			Sanitary Hot Water Pump
WATER SAFETY DEVICES			Connection Size (mm) Heating / DHW
			G1 / G3/4
			Control Thermistor (°C)
			80
DIMENSIONS (mm)			Flow Sensor (minimum flow 5L/min)
			Supplied
			Control Thermistor (°C)
			75
WEIGHT EMPTY / FULL (kg)			Temp and Pressure Relief Valve (°C)/ (MPa (Bar))
			90 / 0.7 (7)
			Width
			595
ELECTRICAL DATA			Depth
			680
			Height
			1600
			81 / 287
			Electrical Supply
			220-240v, 50Hz
			Phase
			Single
			Fuse Rating - MCB Sizes (A) ¹
			10
			Electrical Supply
			220-240v, 50Hz
			Phase
			Single
			Capacity (kW)
			3
			Max Running Current (A)
			13
			Fuse Rating - MCB Sizes (A) ¹
			16
MECHANICAL ZONES			DHW and 1 Heating Zone ²
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER			PAR-WT60R-E and PAR-WR61R-E Receiver

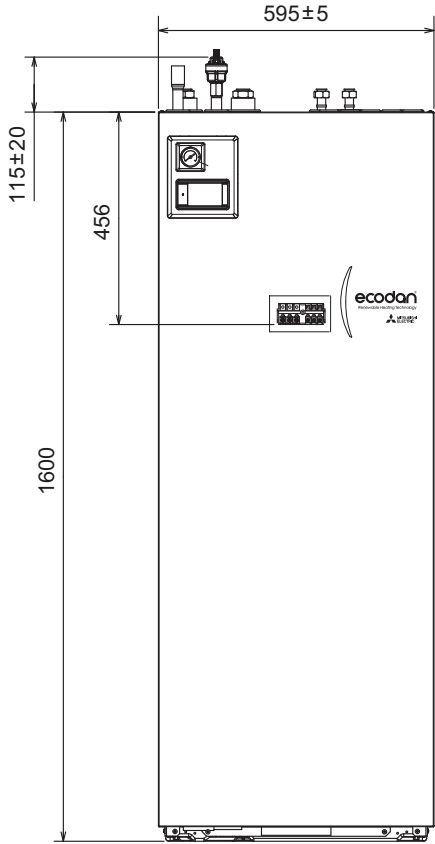
¹ MCB Sizes BS EN60898-2 & BS EN60947-2. ² Optional 2 zone accessory pack available.

Notes: Notes: Cylinder includes: Flow Temperature Controller (FTC7) with Main Controller and Temperature Sensors, Pumps & Valves for Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap and 3kW Immersion Heater.

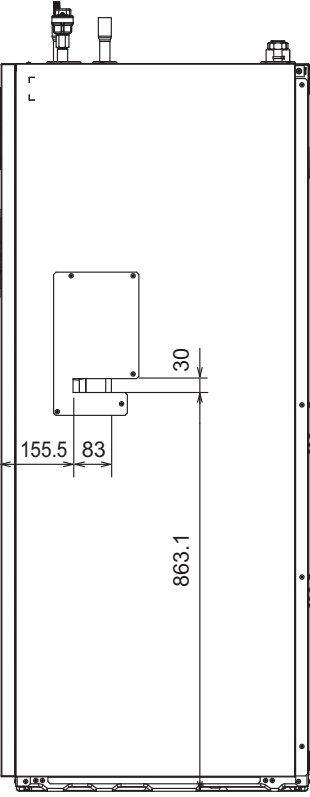
Left View



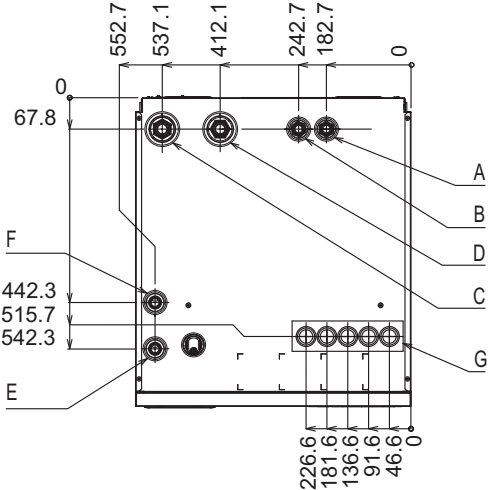
Front View



Right View



Upper View



Letter	Pipe Description	Connection size/type
A	DHW outlet connection	G3/4"/Compression
B	Cold water inlet connection	G3/4"/Compression
C	Space heating return connection	G1"/Compression
D	Space heating flow connection	G1"/Compression
E	Flow from heat pump connection	G1"/Compression
F	Return to heat pump connection	G1"/Compression
G	Electrical cable inlets	