

Heating

Product Information

QUHZ-W40VA / EHPT20Q-VM2EA

Ecodan Monobloc 4kW Air Source Heat Pump
With Thermal Store

Making a
World of
Difference



Our new 4kW monobloc Ecodan heat pump system combines market leading efficiency in hot water production with reliable and renewable heat provision all year round.

The Ecodan QUHZ is the ideal solution for new build homes where strict building regulations drive down the space heating demand, making the production of hot water the dominant load.

The Ecodan QUHZ operates with a market leading low noise output and built in energy monitoring as standard. The thermal store has been specifically designed to work with this system, giving high hot water output without the need to pasteurise the water.

Key Features

- High efficiency hot water heating performance
- Class leading low noise operation
- Energy monitoring as standard
- No stored water, no risk of legionella
- High hot water capacity for larger dwellings
- Pre-plumbed and wired for faster installation
- Compatible with Mitsubishi Electric wireless room controllers
- Wi-Fi control available

Application Examples

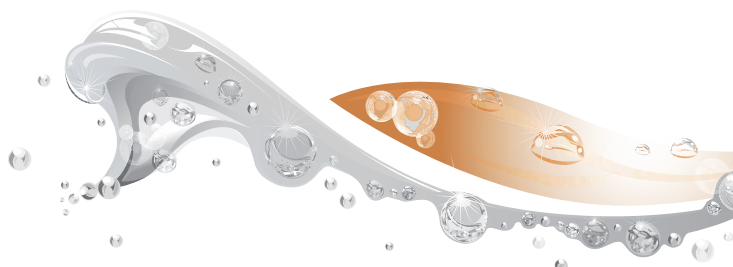
- New Build UK homes
- Cafes and Restaurants
- Dental / Doctor's Surgeries



Certificate Number: MCS HP0002
Product Type: Heat Pumps
Product Reference: QUHZ-W40VA



Air Conditioning | Heating
Ventilation | Controls



ecodan[®]
Renewable Heating Technology

OUTDOOR UNIT		QUHZ-W40VA	THERMAL STORE		EHPT20Q-VM2EA	
HEAT PUMP COMBINATION HEATER - 55°C	ErP Rating	A+	NOMINAL THERMAL STORE WATER VOLUME (LITRES)		200	
	η _h	117%	WATER TEMPERATURE RANGE	DHW Mode (°C)	40-70°C	
	SCOP	2.90		Space Heating Mode (°C)	25-60°C	
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating	A	MECHANICAL ZONES		DHW and 1 Heating Zone (2 Zone capability with 3rd party 2-port valves)	
	η _{wh}	129%	OPERATING AMBIENT TEMPERATURE (°C DB)		0 ~ +35°C (RH<80%)	
	COP	3.00	SOUND PRESSURE LEVEL AT 1M (dBA)		30	
HEATING ² (A-3/W55)	Capacity (kW)	4.32	SOUND POWER LEVEL (dBA) ⁴		40	
	Power Input (kW)	2.18	STANDING HEAT LOSS (kWh/24hours)		1.63	
	COP	1.98	WATER DATA	Primary Pump	Grundfos Solar PML 25-145 180	
OPERATING AMBIENT TEMPERATURE (°C DB)		-15 ~ +35°C		Sanitary Hot Water Pump	Grundfos Solar PML 25-145 180	
SOUND PRESSURE LEVEL AT 1M (dBA) ³		43		Connection Size (mm) Heating / DHW	22 / 22	
SOUND POWER LEVEL (dBA) ⁴		53	Primary Expansion Vessel (Litres)		18	
WATER DATA	Pipework Size (mm)	15	Charge Pressure (MPa (Bar))		0.1 (1)	
	Flow Rate (l/min)	3 to 8	WATER SAFETY DEVICES	Pressure relief valve (Mpa (Bar))	0.3 (3) - 2 No. devices	
DISTANCE BETWEEN OUTDOOR UNIT AND THERMAL STORE (M) DIMENSIONS (mm)	Height Difference	5		Flow sensor (supplied)	Min. flow 1.3 L/min	
	Piping Length	15		Manual reset thermostat	85°C	
	DIMENSIONS	Width	809+70 ⁵	DIMENSIONS (mm)		Width
Depth		300+20 ⁵			Depth	680
Height		715			Height	1600
WEIGHT (kg)		57	WEIGHT EMPTY / FULL (kg)		77 / 283	
ELECTRICAL DATA		Powered from indoor unit	ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	
				Phase	Single	
				Maximum Running Current (A)	15	
				Fuse Rating - MCB Sizes (A) ⁶	20	
			OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER		PAR-WT50-E Controller and PAR-WR51-E Receiver	

¹ Combination with EHPT20Q-VM2EA Thermal Store.

² Under normal heating conditions at outdoor temp: -3°CDB / -4°CWB, outlet water temp 55°C, inlet water temp 47°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 Grille or pipe cover.

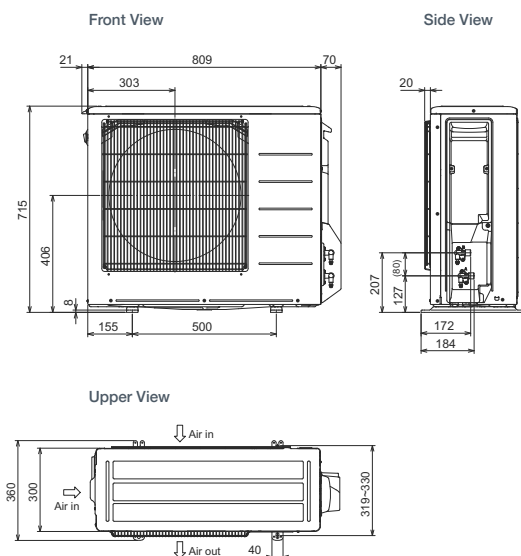
⁶ MCB Sizes BS EN60898-2 & BS EN60947-2.

η_{Ls} is the seasonal space heating energy efficiency (SSHEE)

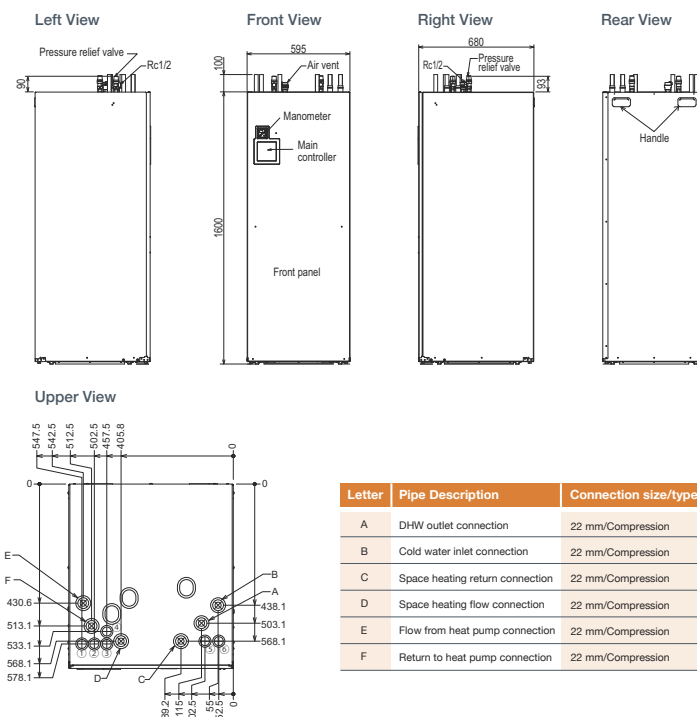
η_{wh} is the water heating energy efficiency

DIMENSIONS

QUHZ-W40VA



EHPT20Q-VM2EA



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