

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

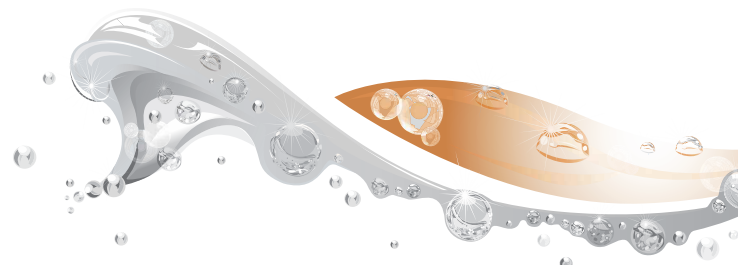
- New Build UK homes
- Cafes and Restaurants
- Dental / Doctor's Surgeries



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_{ls}	117%	WATER TEMPERATURE RANGE		DHW Mode (°C) 40-70°C Space Heating Mode (°C) 25-60°C
	SCOP	2.90	MECHANICAL ZONES		DHW and 1 Heating Zone (2 Zone capability with 3rd party 2-port valves)
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating	A	OPERATING AMBIENT TEMPERATURE (°C DB)		0 ~ +35°C (RH<80%)
	η_{wh}	129%	SOUND PRESSURE LEVEL AT 1M (dBA)		30
	COP	3.00	SOUND POWER LEVEL (dBA) ⁴		40
HEATING ² (A-3/W55)	Capacity (kW)	4.32	STANDING HEAT LOSS (kWh/24hours)		1.63
	Power Input (kW)	2.18	WATER DATA		Primary Pump Grundfos Solar PML 25-145 180 Sanitary Hot Water Pump Grundfos Solar PML 25-145 180
	COP	1.98	Connection Size (mm) Heating / DHW		22 / 22
OPERATING AMBIENT TEMPERATURE (°C DB)		-15 ~ +35°C	Primary Expansion Vessel (Litres)		18
SOUND PRESSURE LEVEL AT 1M (dBA) ³		43	Charge Pressure (MPa (Bar))		0.1 (1)
SOUND POWER LEVEL (dBA) ⁴		53	Pressure relief valve (Mpa (Bar))		0.3 (3) - 2 No. devices
WATER DATA		Pipework Size (mm) 15 Flow Rate (l/min) 3 to 8	Flow sensor (supplied)		Min. flow 1.3 L/min
DISTANCE BETWEEN OUTDOOR UNIT AND THERMAL STORE (M) DIMENSIONS (mm)		Height Difference 5 Piping Length 15	Manual reset thermostat		85°C
DIMENSIONS		Width 809+70 ⁵ Depth 300+20 ⁵ Height 715	DIMENSIONS (mm)		Width 595 Depth 680 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-WRS1-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.

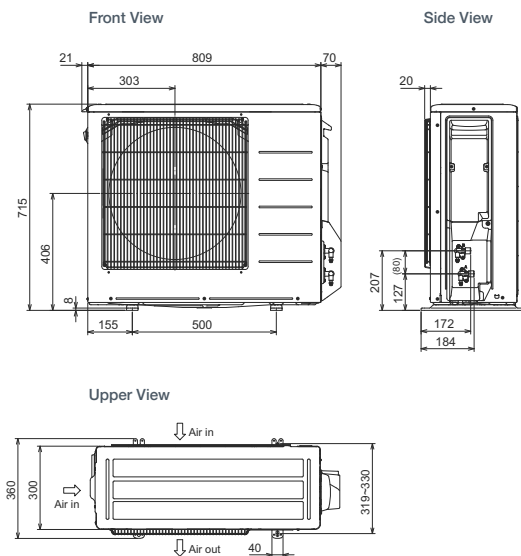
⁶ MCB Sizes BS EN60898-2 & BS EN60947-2.

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

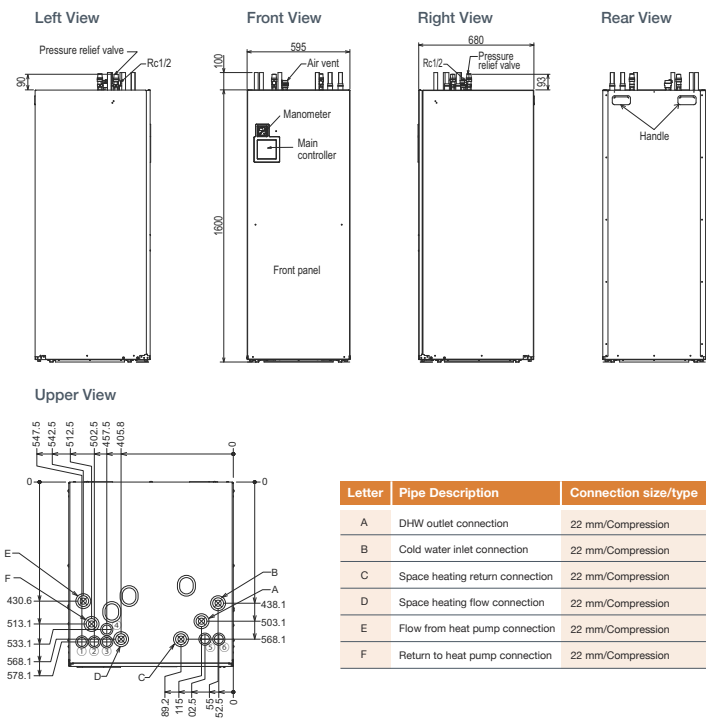
η_{wh} is the water heating energy efficiency

DIMENSIONS

QUHZ-W40VA



EHPT20Q-VM2EA



Letter	Pipe Description	Connection size/type
A	DHW outlet connection	22 mm/Compression
B	Cold water inlet connection	22 mm/Compression
C	Space heating return connection	22 mm/Compression
D	Space heating flow connection	22 mm/Compression
E	Flow from heat pump connection	22 mm/Compression
F	Return to heat pump connection	22 mm/Compression



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