

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

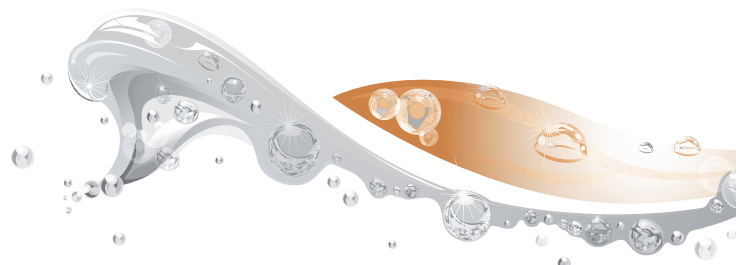
- New Build UK homes
- Cafes and Restaurants
- Dental / Doctor's Surgeries



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



Air Conditioning | Heating
Ventilation | Controls



ecodan[®]
Renewable Heating Technology

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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	WATER DATA		Primary Pump Grundfos Solar PML 25-145 180 Sanitary Hot Water Pump Grundfos Solar PML 25-145 180
	Power Input (kW)	2.18	Connection Size (mm) Heating / DHW		22 / 22
	COP	1.98	Primary Expansion Vessel (Litres)		18
OPERATING AMBIENT TEMPERATURE (°C DB)		-15 ~ +35°C	Charge Pressure (MPa (Bar))		0.1 (1)
SOUND PRESSURE LEVEL AT 1M (dBA) ³		43	Pressure relief valve (Mpa (Bar))		0.3 (3) - 2 No. devices
SOUND POWER LEVEL (dBA) ⁴		53	Flow sensor (supplied)		Min. flow 1.3 L/min
WATER DATA			Manual reset thermostat		85°C
Pipework Size (mm)		15	DIMENSIONS (mm)		Width 595 Depth 680 Height 1600
Flow Rate (l/min)		3 to 8	WEIGHT EMPTY / FULL (kg)		77 / 283
DISTANCE BETWEEN OUTDOOR UNIT AND THERMAL STORE (M) DIMENSIONS (mm)			ELECTRICAL DATA		Electrical Supply 220-240v, 50Hz Phase Single Maximum Running Current (A) 15 Fuse Rating - MCB Sizes (A) ⁶ 20
Height Difference		5	OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER		PAR-WT50-E Controller and PAR-WR51-E Receiver
Piping Length		15			
DIMENSIONS					
Width 809+70 ⁵					
Depth 300+20 ⁵					
Height 715					
WEIGHT (kg)		57			
ELECTRICAL DATA		Powered from indoor unit			

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.

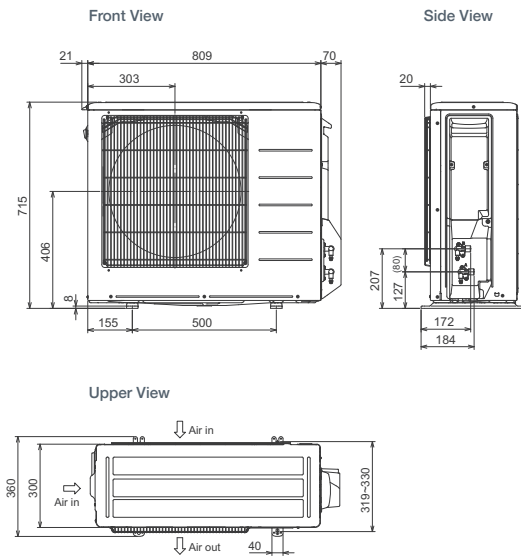
⁶ MCB Sizes BS EN60898-2 & BS EN60947-2.

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

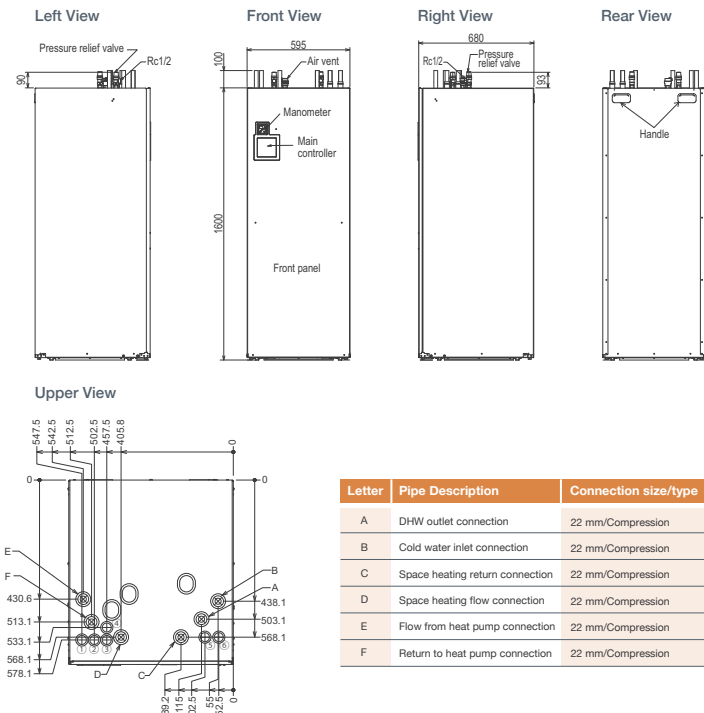
η_{wh} is the water heating energy efficiency

DIMENSIONS

QUHZ-W40VA



EHPT20Q-VM2EA



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