

Heating

Product Information

PUHZ-(H)W50-140VHA(2)/YHA2(-BS)
Ecodan Monobloc Air Source Heat Pumps

Making a
World of
Difference



Designed to meet
the demands of
today's heating
needs

Our range of Ecodan monobloc air source heat pumps includes **5, 8.5, 11.2 and 14kW** sizes. Now with the ability to cascade up to six units of the same output, Ecodan monobloc systems offer a capacity range from 5 through to 84kW. Designed to suit a wide number of applications, these models offer a viable solution for the varying requirements that domestic and small commercial applications demand.

Key Features

- Self-contained unit, only requiring water and electric connections
- No need for gas supply, flues or ventilation
- Single phase power supply with a low starting current (3 phase available for 14kW)
- Low maintenance and quiet operation
- Operates with outside temperatures as low as -25°C
- Multiple unit connection
- Hybrid function, for use with conventional boilers
- 2-zone energy efficient space heating control
- Available as a standalone, packaged or semi packaged system
- Energy monitoring as standard
- Coastal protection models available (-BS)

Application Examples

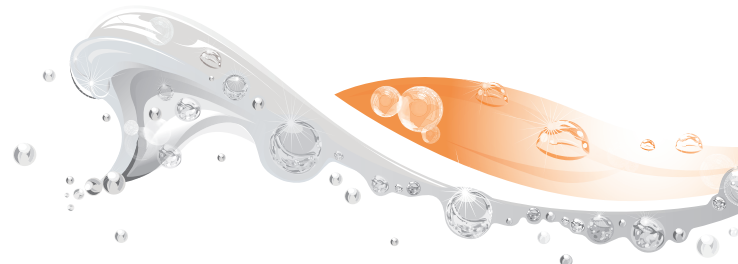
- The vast majority of UK homes
- Small Retail Outlets
- Dental / Doctor's Surgeries
- Public Sector / Commercial Buildings



Certificate Number: MCS 197002
Product Type: Heat Pumps
Product Reference: PUHZ-W50VHA2(-BS), PUHZ-W85VHA2(-BS),
PUHZ-W112VHA(-BS), PUHZ-W140VHA2(-BS)



Air Conditioning | Heating
Ventilation | Controls



ecodan[®]
Renewable Heating Technology

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OUTDOOR UNIT		PUHZ-W50VHA2(-BS)	PUHZ-W85VHA2(-BS)	PUHZ-W112VHA(-BS)	PUHZ-HW140VHA2(-BS)	PUHZ-HW140YHA2(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++	A++	A++	A++	A++
	η_s	127%	128%	125%	126%	126%
	SCOP	3.25	3.27	3.20	3.22	3.22
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A++	A++	A++	A++	A++
	η_s	162%	162%	164%	157%	157%
	SCOP	4.12	4.12	4.18	3.99	3.99
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating	A	A	A	A	A
	η_{wh}	99%	97%	100%	96%	96%
HEATING ² (A-3/W35)	Capacity (kW)	4.8	8.3	11.0	14.0	14.0
	Power Input (kW)	1.63	2.96	3.65	4.81	4.81
	COP	2.95	2.80	3.01	2.91	2.91
OPERATING AMBIENT TEMPERATURE (°C DB)		-15 ~ +35°C	-20 ~ +35°C	-20 ~ +35°C	-25 ~ +35°C	-25 ~ +35°C
SOUND PRESSURE LEVEL AT 1M (dBA) ^{3,4}		45	48	53	53	53
LOW NOISE MODE (dBA) ³		40	42	46	46	46
WATER DATA	Pipework Size (mm)	22	22	28	28	28
	Flow Rate (l/min)	14.3	25.8	32.1	40.1	40.1
	Water Pressure Drop (kPa)	12	13.5	6.3	9	9
	Height	950	950	1020	1020	1020
DIMENSIONS (mm) ⁷	Width	330+30 ⁵	330+30 ⁵	330+30 ⁵	330+30 ⁵	330+30 ⁵
	Depth	740	943	1350	1350	1350
	Height	64	77	133	134	148
WEIGHT (kg)		64	77	133	134	148
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
	Phase	Single	Single	Single	Single	3
	Nominal Running Current [MAX] (A)	5.4 [13]	10.3 [23]	11.2 [29.5]	14.9 [35]	5.1 [13]
	Fuse Rating - MCB Sizes (A) ⁶	16	25	32	40	16

¹ Combination with EHPT20X-MHCW Cylinder

² Under normal heating conditions at outdoor temp: -3°CDB / -4°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 35°C, inlet water temp 30°C as tested to BS EN14511.

⁴ Sound power level of the PUHZ-W50VHA2 is 61 dBA, PUHZ-W85VHA2 is 62.5 dBA, PUHZ-W112VHA is 65 dBA, PUHZ-HW140VHA2 is 65.5 dBA, PUHZ-HW140YHA2 is 67.5 dBA. Tested to BS EN12102.

⁵ Grille.

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

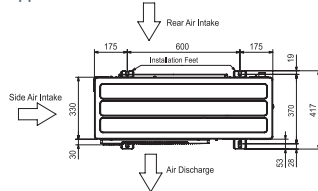
⁷ Flow Temperature Controller (FTC) for standalone systems PAC-IF062B-E Dimensions WxDxH (mm) - 520x150x450

η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

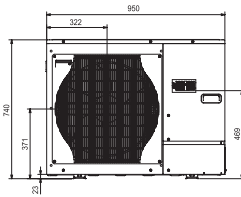
DIMENSIONS

PUHZ-W50VHA2(-BS)

Upper View

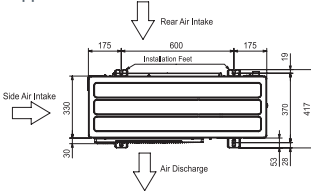


Front View

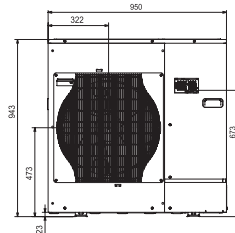


PUHZ-W85VHA2(-BS)

Upper View

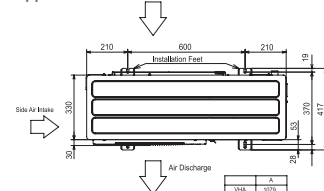


Front View

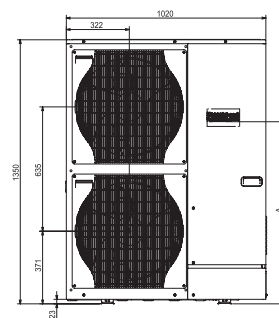


PUHZ-(H)W112-140VHA(2) / YHA2(-BS)

Upper View



Front View



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