

Heating

Product Information

PUHZ-(H)W50 / PUHZ-W85/112VAA(-BS)
PUHZ-HW140VHA2(-BS)/YHA2(-BS)
Ecodan Monobloc Standalone
Air Source Heat Pumps

Making a
World of
Difference

ecodan



Designed
to meet the
demands of
today's heating
needs



Our range of Ecodan monobloc standalone 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
- Low maintenance and quiet operation
- Operates with outside temperatures as low as -25°C
- Optimised low ambient defrost control and operation
- Hybrid function, for use with conventional boilers
- Energy monitoring as standard



Cooling | Heating | Ventilation | Controls



ecodan[®]
Renewable Heating Technology

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OUTDOOR UNIT		PUHZ-W50VHA2(-BS)	PUHZ-W85VAA(-BS)	PUHZ-W112VAA(-BS)	PUHZ-HW140VHA2(-BS)	PUHZ-HW140VHA2(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++	A++	A++	A++	A++
	η _s	127%	137%	133%	126%	126%
	SCOP	3.25	3.50	3.40	3.22	3.22
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A++	A++	A++	A++	A++
	η _s	162%	171%	170%	157%	157%
	SCOP	4.12	4.35	4.34	3.99	3.99
HEAT PUMP COMBINATION HEATER - Large Profile ¹⁾	ErP Rating	A	A	A	A	A
	η _{wh}	99%	104%	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	2.86	3.73	4.81	4.81
	COP	2.95	2.90	2.95	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 DATA	Pressure Level at 1m (dBA) ³⁾	45	45	47	53	53
	Power Level (dBA) ⁴⁾	61	58	60	65.5	67.5
WATER DATA	Pipework Size (mm)	22	28	28	28	28
	Flow Rate (l/min)	14.3	25.8	32.1	40.1	40.1
	Water Pressure Drop (kPa)	12	16.1	24.4	9	9
DIMENSIONS (mm) ⁵⁾	Width	950	1050	1050	1020	1020
	Depth	330+30°	480	480	330+30°	330+30°
	Height	740	1020	1020	1350	1350
WEIGHT (kg)		64	97	118	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]	9.1 [22.0]	10.9 [28.0]	14.9 [35]	5.1 [13]
	Fuse Rating - MCB Sizes (A) ⁷⁾	16	25	32	40	16
REFRIGERANT CHARGE (kg) / CO ₂ EQUIVALENT (t)	R410A (GWP 2088)	1.7 / 3.5	2.4/5.01	3.3/6.89	4.3 / 9.0	4.3 / 9.0

*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 tested to BS EN12102.

*5 Grille. *6 Flow Temperature Controller (FTC) for standalone systems PAC-IF062B-E Dimensions WxDxH (mm) - 520x150x450 *7 MCB Sizes BS EN60898-2 & BS EN60947-2.

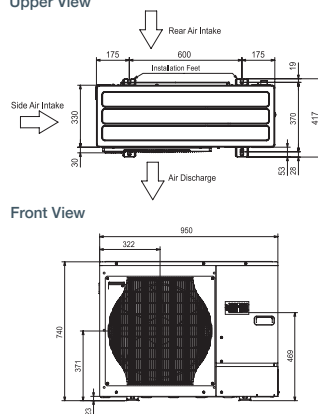
η_s is the seasonal space heating energy efficiency (SSHEF) η_{wh} is the water heating energy efficiency



DIMENSIONS

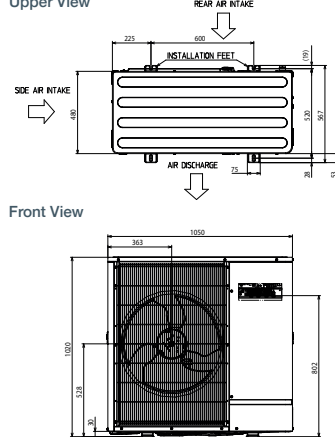
PUHZ-W50VHA2(-BS)

Upper View



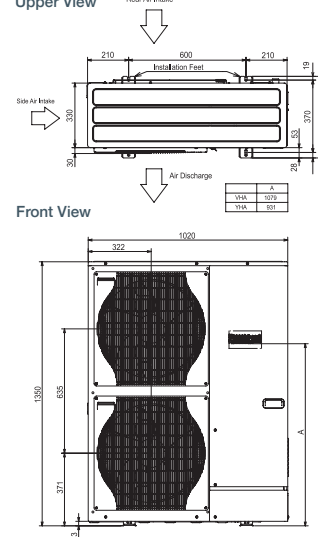
PUHZ-W85 / 112VAA(-BS)

Upper View



PUHZ-(H)W140VHA(2) / YHA2(-BS)

Upper View



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows: R410A (GWP:1975), R32 (GWP: 650), R407C (GWP:1650) or R134a (GWP:1300).



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