

Heating

Product Information

PUHZ-SW50-120VKA/VHA(-BS)

Ecodan Split Air Source Heat Pumps

Making a
World of
Difference



Designed to meet
the demands of
today's heating
needs

Our range of Ecodan split air source heat pumps includes 5, 7.5 and 12kW sizes. Now with the ability to cascade up to six units of the same output Ecodan split systems offer a capacity range from 5 to 72kW. 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

- Split unit allowing water connections to be made internally
- No need for gas supply, flues or ventilation
- Single phase power supply with a low starting current
- Low maintenance and quiet operation
- Operates with outside temperatures as low as -20°C
- Multiple unit connection
- Hybrid function for use with conventional boilers
- 2-zone energy efficient space heating control
- 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 HP0002
Product Reference: PUHZ-SW50VKA, PUHZ-SW75VHA,
PUHZ-SW120VHA



Air Conditioning | Heating
Ventilation | Controls



ecodan[®]
Renewable Heating Technology

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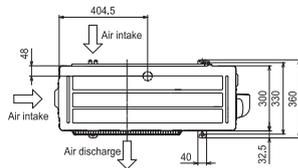
OUTDOOR UNIT		PUHZ-SW50VKA(-BS)	PUHZ-SW75VHA(-BS)	PUHZ-SW120VHA(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++	A++	A++
	η_s	125%	127%	125%
	SCOP	3.20	3.26	3.21
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A++	A++	A++
	η_s	163%	154%	162%
	SCOP	4.16	3.92	4.13
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating	A	A	A
	η_{wh}	98%	93%	99%
	Capacity (kW)	5.25	7.0	11.2
HEATING ² (A-3/W35)	Power Input (kW)	1.84	2.24	3.71
	COP	2.85	3.12	3.02
	OPERATING AMBIENT TEMPERATURE (°C DB) ⁷	-15 ~ +35°C	-20 ~ +35°C	-20 ~ +35°C
SOUND PRESSURE LEVEL AT 1M (dBA) ^{3,4}	46	51	54	
LOW NOISE MODE (dBA) ³	42	48	51	
WATER DATA - Water connections made at indoor hydrobox DIMENSIONS (mm)	Flow Rate (l/min)	11.8	22.9	45.9
	Width	809+62 ⁵	950	950
	Depth	300	330+30 ⁵	330+30 ⁵
	Height	630	943	1350
WEIGHT (kg) REFRIGERANT	Type	R410A	R410A	R410A
	Charge (kg) - 10m pipe length	1.4	3.2	4.6
	Pipe Size - Gas/Liquid (mm (in))	12.7 (1/2") / 6.35 (1/4")	15.88 (5/8") / 9.52 (3/8")	15.88 (5/8") / 9.52 (3/8")
	Connection Type	Flared	Flared	Flared
	Max Pipe Length (m)	40	40	75
	Min Pipe Length (m)	2	5	5
	Max Height Difference (m)	30	10	30
	ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz
Phase		Single	Single	Single
Nominal Running Current [MAX] (A)		3.8 [13]	8.1 [19]	17.5 [29.5]
Fuse Rating - MCB Sizes (A) ⁶		16	25	40

¹ Combination with EHST20(D)(C)-MHCW Cylinders
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-SW50VKA is 62dBA, PUHZ-SW75VHA2 is 65.6dBA, PUHZ-SW120VHA is 68.8dBA, as tested to BS EN12102
⁵ Grille
⁶ MCB Sizes BS EN60898-2 & BS EN60947-2
⁷ Heating maximum ambient temperature -21°CDB, DHW Hot water maximum ambient temperature -35°CDB
⁸ Electrical cover
 η_s is the seasonal space heating energy efficiency (SSHEE) η_{wh} is the water heating energy efficiency

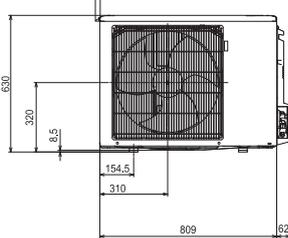
DIMENSIONS

PUHZ-SW50VKA(-BS)

Upper View

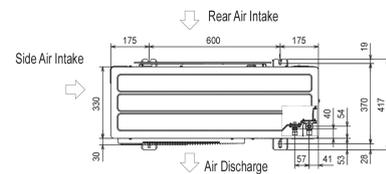


Front View

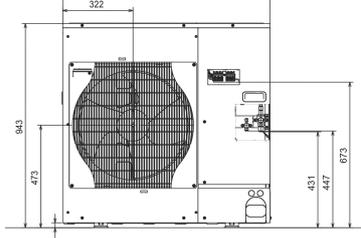


PUHZ-SW75VHA(-BS)

Upper View

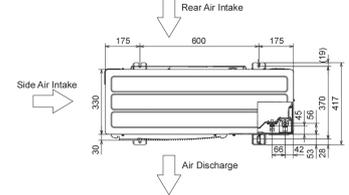


Front View

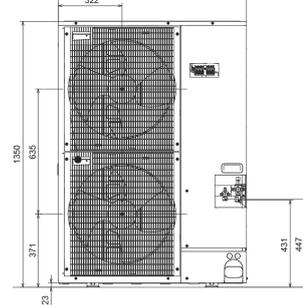


PUHZ-SW120VHA(-BS)

Upper View



Front View



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