Heating

Product Information

PUHZ-SW40-120VHA Ecodan Split Air Source Heat Pumps Making a World of Difference



Designed to meet the demands of today's heating needs







Air Conditioning | Heating Ventilation | Controls Our range of Ecodan split air source heat pumps includes 4, 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 4 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 to run
- Operates with outside temperatures as low as -20°C
- Multiple unit connection
- Bivalent function for use with conventional boilers
- 2 Zone energy efficient space heating control

Application Examples

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



Renewable Heating Technology

Heatir

Product Information

PUHZ-SW40-120VHA

Ecodan Split Air Source Heat Pumps

Making a World of Difference

| MODEL | | PUHZ-SW40VHA | PUHZ-SW75VHA | PUHZ-SW120VHA |
|--|-----------------------------------|---------------------------|----------------------------|----------------------------|
| Heating*1 | Capacity (kW) | 3.8 | 7.0 | 11.2 |
| (A-3/W35) | Power Input (kW) | 1.27 | 2.24 | 3.71 |
| · · · | COP | 2.99 | 3.12 | 3.02 |
| Heating*2 | Capacity (kW) | 4.0 | 7.5 | 12.0 |
| (A2/W35) | Power Input (kW) | 1.24 | 2.2 | 3.7 |
| | COP | 3.24 | 3.4 | 3.24 |
| Heating*3 | Capacity (kW) | 4.1 | 8.0 | 16.0 |
| (A7/W35) | Power Input (kW) | 0.85 | 1.82 | 3.9 |
| | COP | 4.80 | 4.4 | 4.1 |
| Operating Ambient Temperature (°C DB)*7 | | -15 ~ +35°C | -20 ~ +35°C | -20 ~ +35°C |
| Sound Pressure Level at 1m (dBA)*3*4 | | 45 | 51 | 54 |
| Low Noise Mode (dBA)*3 | | 42 | 48 | 51 |
| Water Data - Water connections made at indoor hydrobox | Flow Rate (I/min) | 11.8 | 22.9 | 45.9 |
| Dimensions (mm) | Width | 800 | 950 | 950 |
| | Depth | 300+23*5 | 330+30 ^{*5} | 330+30* ⁵ |
| | Height | 600 | 943 | 1350 |
| Weight (kg) | | 42 | 75 | 118 |
| Refrigerant | Туре | R410A | R410A | R410A |
| | Charge (kg) - 10m pipe length | 2.1 | 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) | 5 | 5 | 5 |
| | Max Height Difference (m) | 10 | 10 | 30 |
| Electrical Data | Electrical Supply | 220-240v, 50Hz | 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 Under normal heating conditions at outdoor temp: -3°CDB / -4°CWB, outlet water temp 35°C, inlet water temp 30°C.
*2 Under normal heating conditions at outdoor temp: 2°CDB / 1°CWB, outlet water temp 35°C, inlet water temp 30°C as tested to BS EN14511
*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-SW40VHA is 60.9dBA, PUHZ-SW75VHA2 is 65.6dBA, PUHZ-SW120VHA is 68.8dBA, as tested to BS EN12102.

PUHZ-SW75VHA

Upper View

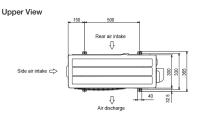
Side Air Intake

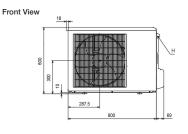
*5 Grille

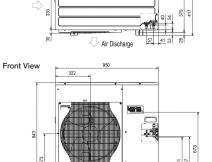
*5 Grille *6 MCB Sizes BS EN60898-2 & BS EN60947-2 *7 Heating maximum ambient temperature~21°CDB, DHW Hot water maximum ambient temperature ~35°CDB

SCHEMATICS

PUHZ-SW40VHA







Rear Air Intake

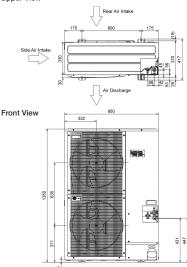
175

- nha-

600

PUHZ-SW120VHA

Upper View



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