APPLICABLE TO SINGLE PHASE ONLY

Panasonic (split system) ASHP
1st Fix Wiring Requirements

This has been created as a checklist for you to work through. We will require all points to be completed before we can second fix (install) the ASHP/Cylinder heating/controls.

Plant room size to be discussed and approved prior to any building works. If unsure on any locations please contact the office 01353 669 000.
If Eco installer has to complete/install these it will be charged on a time and materials basis at our current hourly rate.

Link to Panasonic Bi-Bloc - click here.

Base options : Solid base (photo 1) or two slabs/pillars (photo 2) There must be allowance for the condense to run into a soakaway or a solid base with a drain nearby for the condense.

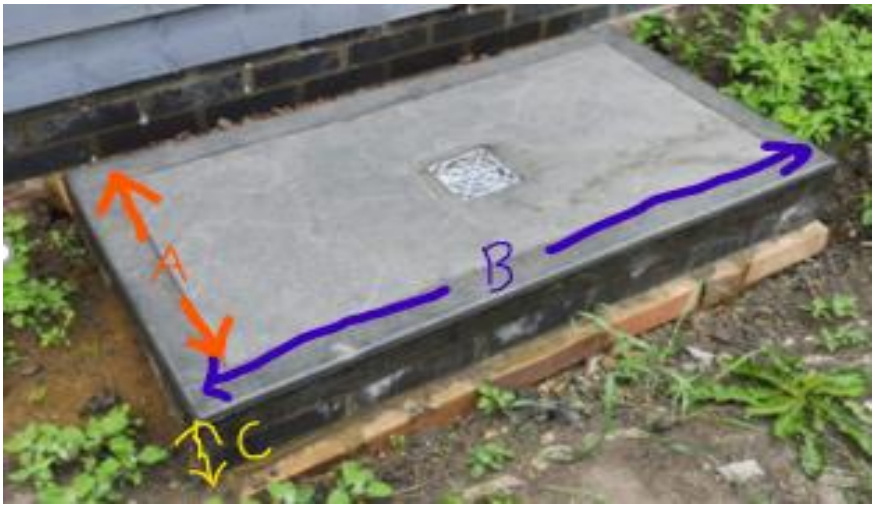
Please start the base 200mm from the exterior surface of the building – allow for final finishing/cladding.

Please ensure a drain is provided for the condense to run into. Either in the centre or one of the back corners.
Solid base (see pictures)

A - 600mm (if there is room for an additional 50mm that is ideal)
B - 1000 mm
C – 200mm

The anti-vibration feet that the Heat Pump will sit on are 600mm long, the base needs to be at least this deep (A) to accommodate them.

Example of the bases:



All ASHP's sit on a set of anti-vibration feet.

Feet dimensions - 600(L) x 185(W) x 100(H)mm

Example of an Air Source Heat Pump sat on feet:

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Air Source Heat Pump (ASHP)

- 2 x 32A supplies left on rotary isolator (see example below) – to be fitted by onsite electrician - to the indoor unit location on a **type C breaker** (RCD 30mA type A).
- 4mm x 4c cable from the internal unit location out to the external heat pump, this is to be left on a rotary isolator to the right hand side of the unit as the external heat pump is powered by internal unit.
- cat5 cable for internet connection to the plant room from the router position.

Cylinder control & Immersion heaters

- 1x 16a supply per immersion heater (1 in cylinder) – TO BE LEFT ON DOUBLE POLE SWITCH

Under floor heating manifold:

- 1 x 16A supply in plant room for heating controls – TO BE LEFT ON FUSED SPUR
- 1 X 3A supply to each underfloor heating manifold location – TO BE LEFT ON FUSED SPUR
- 1 x 1.0mm 5c cable (flex) from each UFH manifold to the plant room – if not located in the plant room
- If having hard wired thermostats -> 3c + E (flat) to each thermostat back to the respective manifold, minimum 32mm back box required – to be fitted by first fix electrician

Standard Radiator zone:

- For radiator circuit– 3c + E (flat) from thermostat location to plant room, minimum 32mm back box required – to be fitted by first fix electrician
- Please first fix for one thermostat per floor.

Room stat to be installed in a suitable position: Example hallway away from radiator + external doors + direct sunlight.

We require test certificates for all first fixed circuits mentioned above before we can book our electrician to do the second fix electrics. This will then ensure that all switches and isolators are fitted prior to our booking. Safety of all our employees and sub contractors is paramount.

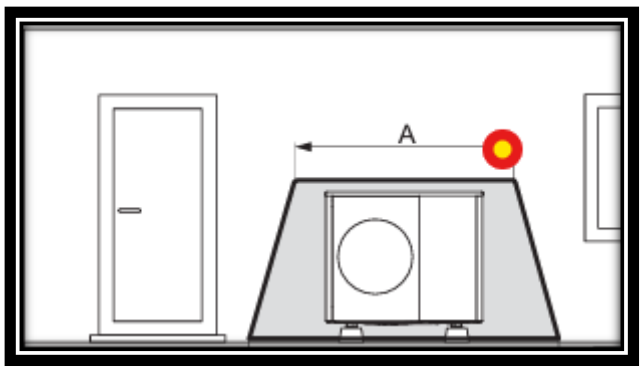
PLEASE CALL SHANE OR BARRY FOR MORE INFORMATION

(Shane: 07852 899 358, Barry: 07376 661 376)

UPDATED 01.11.24

Panasonic Fan Radiator zone:

- 2 x 1.0mm 2c screened cable (CY) from ASHP to plant room for temperature sensors
- 3 x 1.0mm 5c cable (Flex) from the ASHP to the plant room – for circulation pumps & mixing valve
  - Thermostat zones to be confirmed once system design has been completed



Example of labelled fused spurs/ DB Pole Switch: