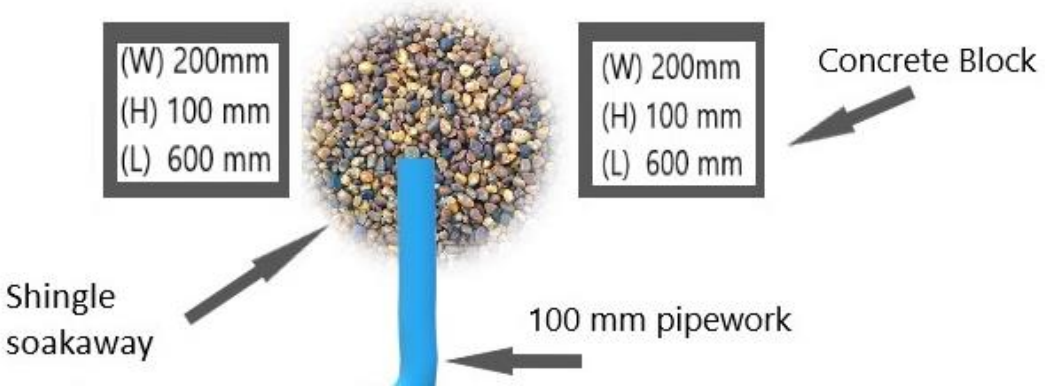
Nibe ASHP base

Nibe air source heat pump website - click here.

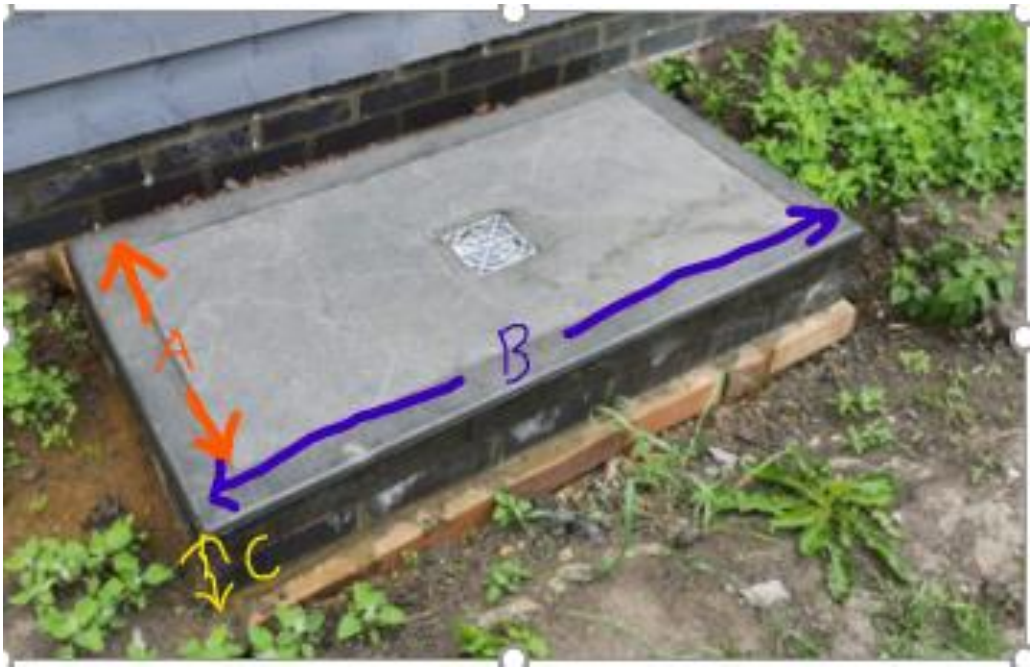
Pillar base

- 8 kW base size: 970mm centres between concrete blocks with a soak away
- 12 kW base size: 1100mm centres between concrete blocks with a soak away
- 16 kW base size: 1100mm Centres between concrete blocks with a soak away



All base's to be started 200mm away from building

Solid Base:



8kW
(a) 600mm
(b) 1200mm
(c) 100mm

12kW / 16kW –
(a) 600mm
(b) 1400mm
(c) 100mm

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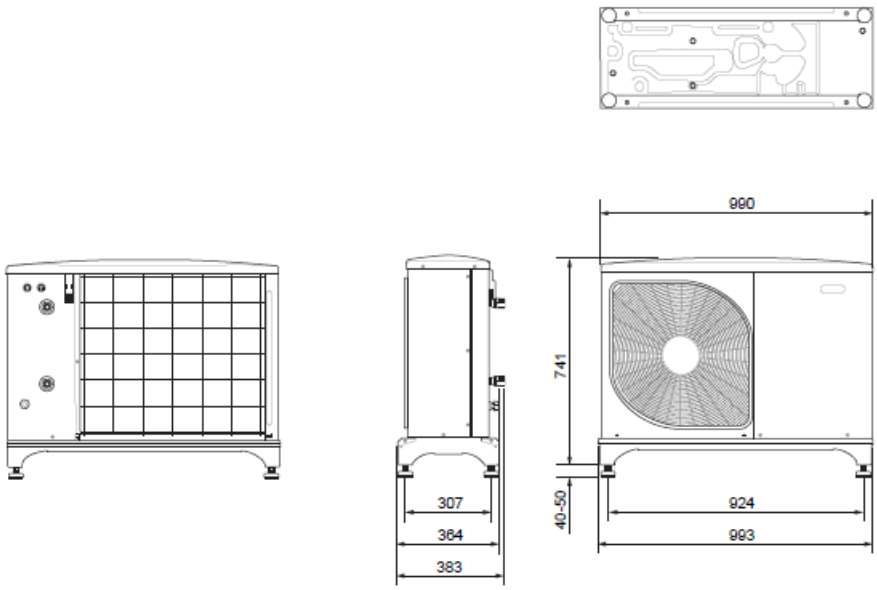
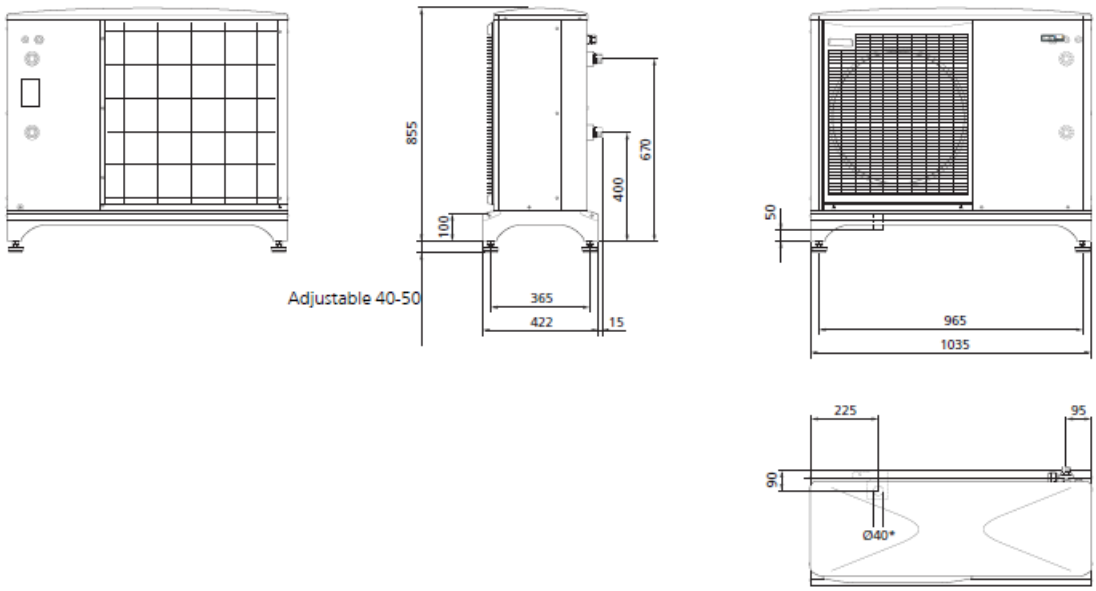
F2040-6



Product dimemsions

F2040-8



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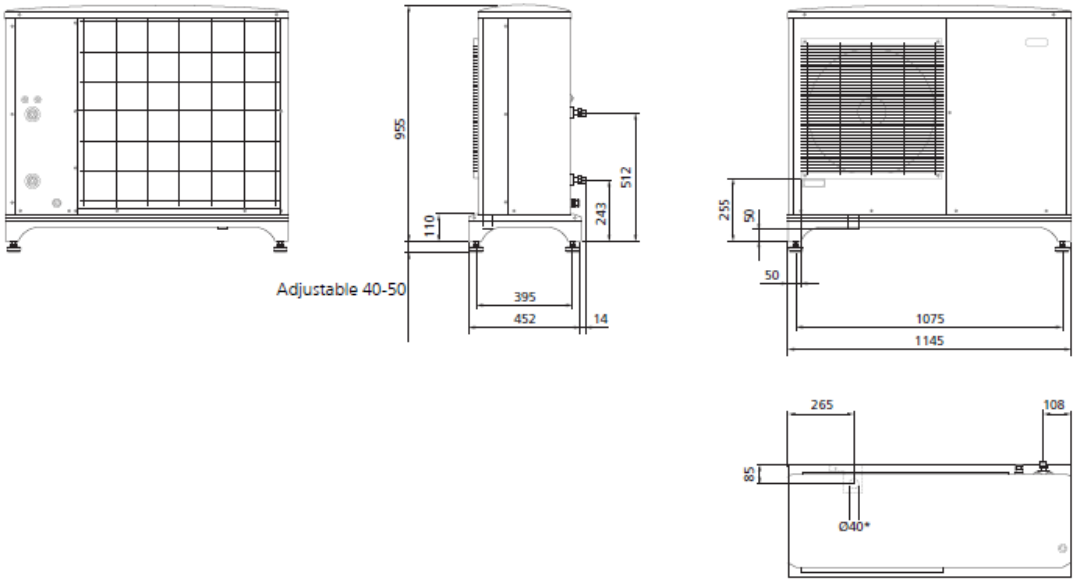
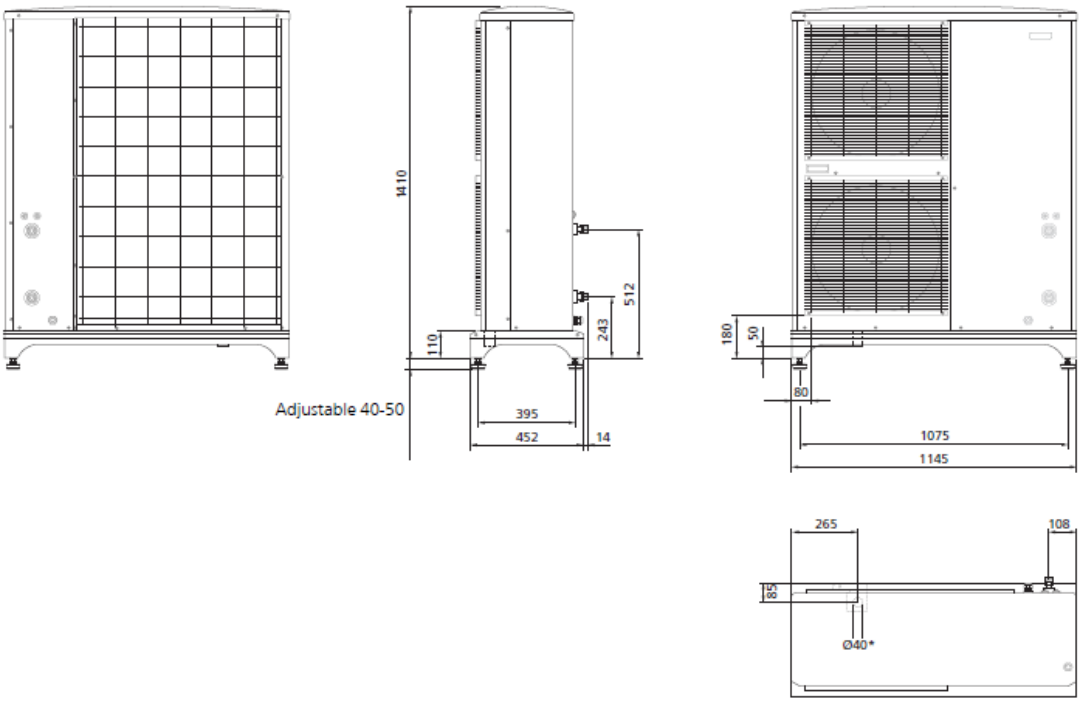
F2040-12



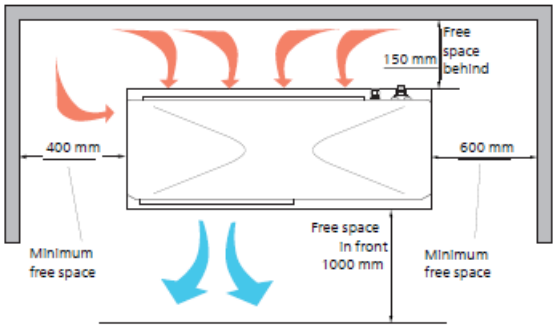
F2040-16



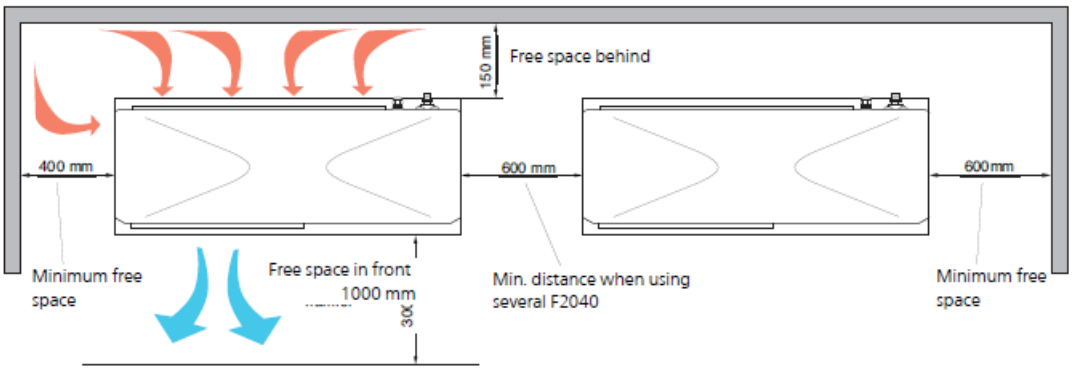
Updated MAY2021

Example of minimum air flow required for ASHP installation

F2040-12



For two heat pumps :



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Guide to Nibe ASHP 1st Fix Wiring Requirements

Plant room size to be discussed and approved prior to any building works

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.

ASHP

- ○ 1x 32a supply **per heat pump** left on an isolator (see picture below) – to be fitted by onsite electrician - to the ASHP on a **type C breaker** (UNLESS YOU HAVE 3 PHASE POWER – INDIVIDUAL INSTRUCTIONS TO BE ADVISED) - If Eco install these it will be an additional charge of £100 + VAT
- ○ Cat5 cable for internet connection to the SMO/Controller terminated with an ethernet cable connection at the ends and with enough left on to reach the base of the SMO
- ○ 1 x 1.0mm 5c screened cable **CY** (Belden – **NOT SY**) from ASHP to plant room for controller
- ○ 2 core screened 0.75mm **CY** (Belden – **NOT SY**) flex from SMO 20/40 controller to a position on North facing external wall for outdoor sensor – mounted 2m from the finished floor level.
- ○ 2 core screened 0.75mm **CY** (Belden – **NOT SY**) flex for an internal room sensor position (Central to property to read temp)

If DHW cylinder is to be in a different location to the SMO controller – you will need to run 4 x 2 core screened 0.75mm CY for stat cables back to the plant room – please check with installer before actioning.

Cylinder control & Immersion heaters

- ○ 1 x 3c + E from plant room only if cylinder is remote (if not in plant room)
- ○ 1x 16a supply per immersion heater (1 in cylinder, 1 in buffer tank) – TO BE LEFT ON FUSED SPUR

Under floor heating manifold:

- ○ 1x 20a supply in plant room for heating controls – TO BE LEFT ON FUSED SPUR
- ○ 1 x 1.0mm 5c cable from each UFH manifold to the plant room (if not located in the plant room)
- ○ If having hard wired thermostats -> 3c + E to each thermostat back to the respective manifold, minimum 32mm back box required – to be fitted by first fix electrician

Radiator zone:

- For radiator circuit– 3c + E from thermostat location to plant

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.

Oil/Gas Boiler located away from Cylinder/SMO 2040: Bivalent system only

If a boiler is positioned away from the heating controls, then a 5 Core cable is to be installed between the two. This will enable the boiler to have Live, Neutral, Earth and Switch Live for when the system is calling for heat.

The SMO controller is supplied & installed by Eco Installer

Example of rotary isolator:

Example of labelled fused spur:

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