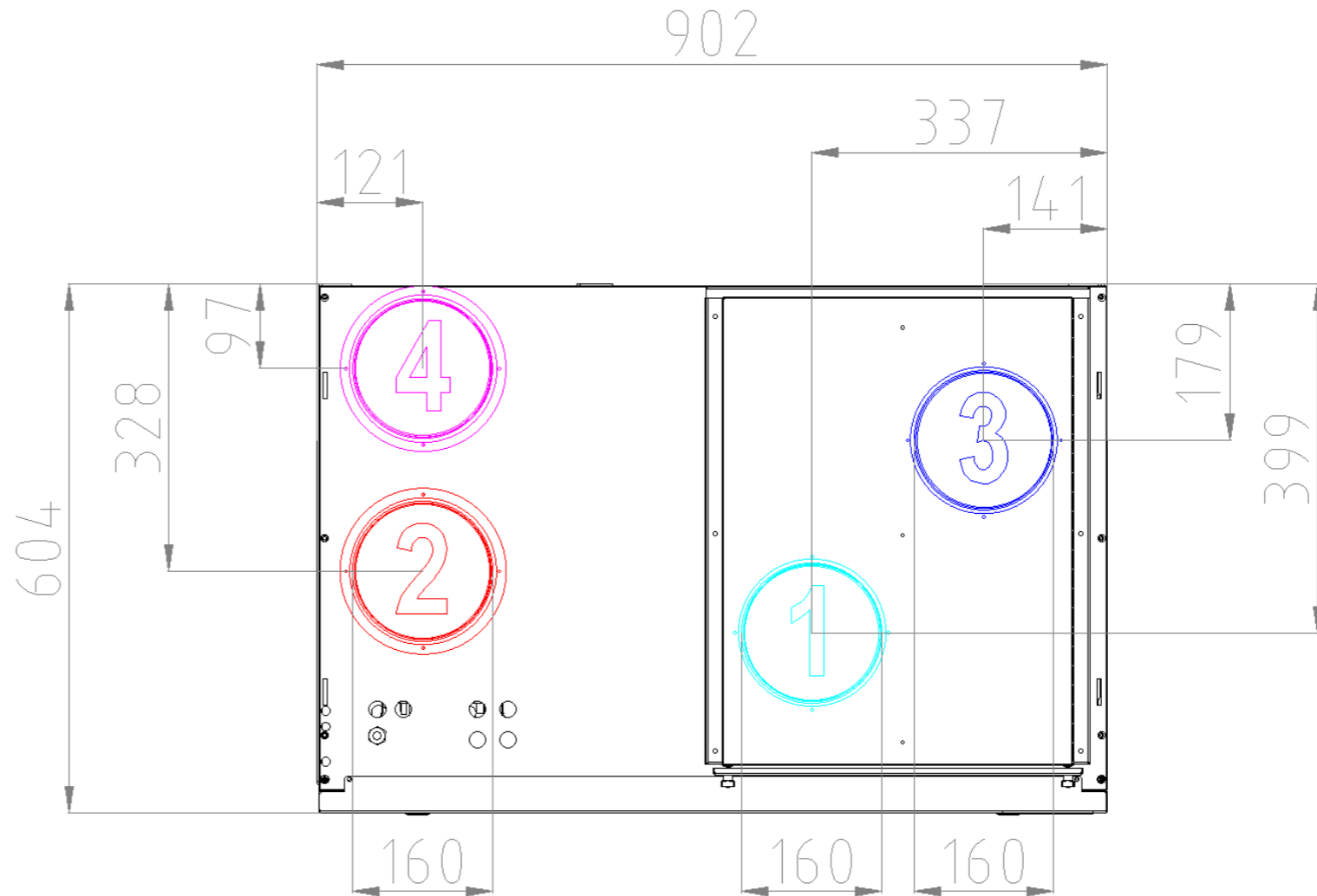


COMPACT P INSTALL OVERVIEW

Ducting

THIS GUIDE DOES NOT TAKE THE PLACE OF THE FACTORY ISSUED INSTALLERS MANUAL AND IS ONLY TO SHOW THE INDICATIVE ARRANGEMENT OF A TYPICAL INSTALLATION.

Installers guide can be found at <https://www.en.nilan.dk/downloads>



1. Air from outside
2. Air to the supply manifold
3. Air from extract manifold
4. Air to the outside

The following guide is intended to give a good practice guide when installing the NilAir ducting system along with a Nilan Compact P

COMPACT P INSTALL OVERVIEW

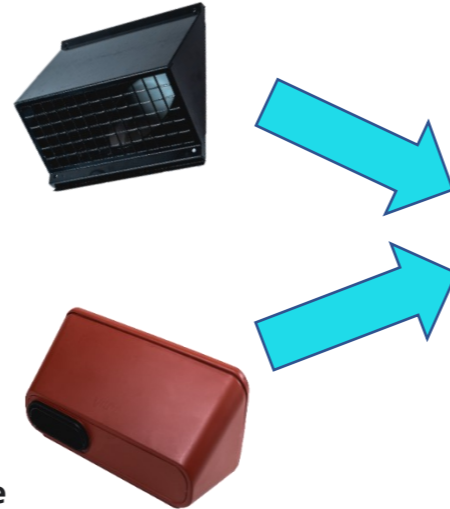
Ducting



LINE 1 – FRESH AIR FROM OUTSIDE

Metal grille

(keep min 1.5m apart from exhaust)



Inline combined grille

(Where 1.5m separation is not practical)

Exterior surface of thermal envelope

Depending on design, in most cases this is the ceiling level.



NOTES

Incoming air duct must be insulated to prevent a cold bridge between the incoming outside air and the warm internal air within the dwelling.

Thermoduct pre-Insulated ducts are advisable and wrapped with 75mm (3 x 25mm) foil backed insulation for Passive House construction.

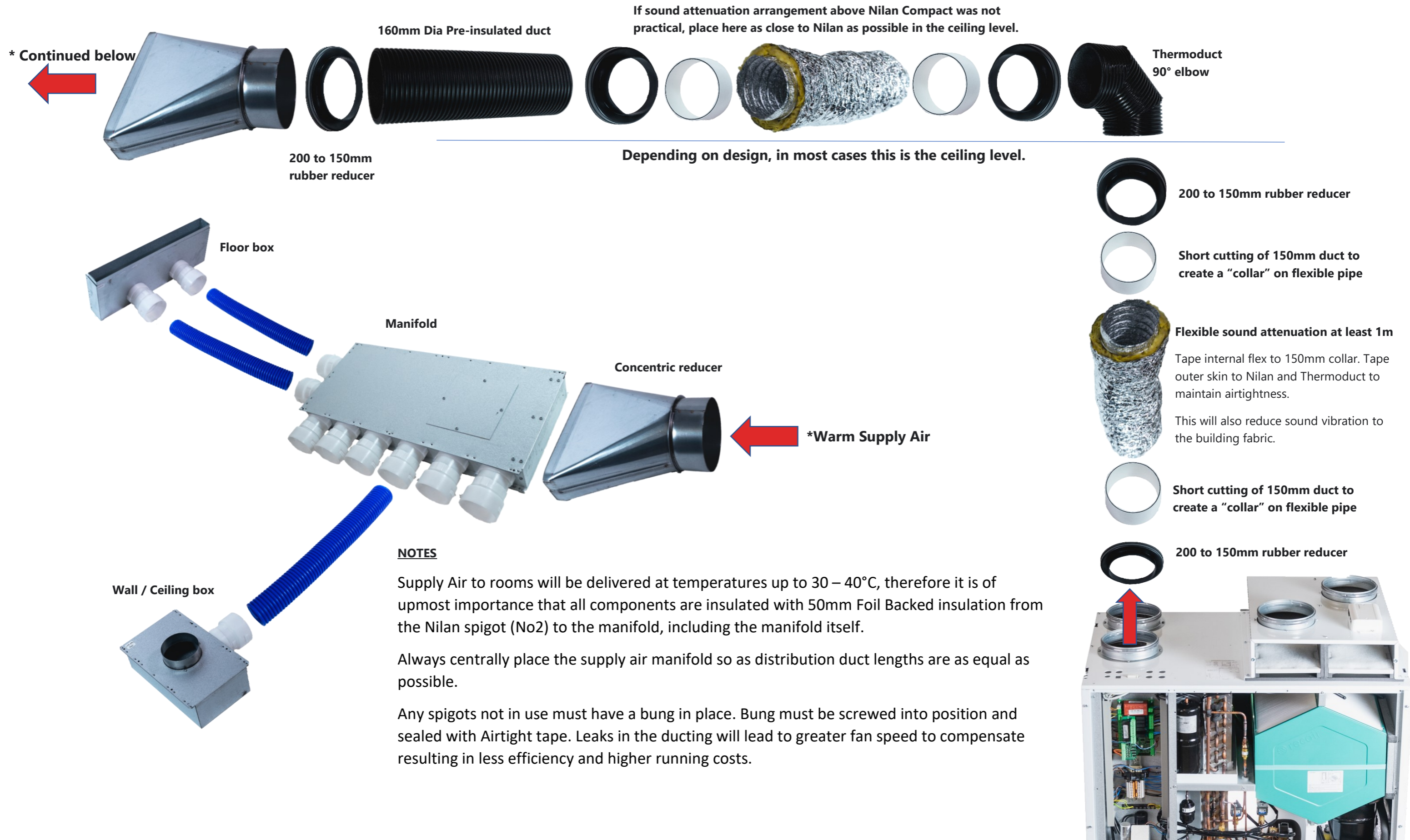
Keep Incoming duct as short as possible to minimise cold bridge.

COMPACT P INSTALL OVERVIEW

Ducting



LINE 2 – SUPPLY AIR TO LIVING SPACES



NOTES

Supply Air to rooms will be delivered at temperatures up to 30 – 40°C, therefore it is of utmost importance that all components are insulated with 50mm Foil Backed insulation from the Nilan spigot (No2) to the manifold, including the manifold itself.

Always centrally place the supply air manifold so as distribution duct lengths are as equal as possible.

Any spigots not in use must have a bung in place. Bung must be screwed into position and sealed with Airtight tape. Leaks in the ducting will lead to greater fan speed to compensate resulting in less efficiency and higher running costs.

COMPACT P INSTALL OVERVIEW

Ducting



LINE 3 – EXTRACT AIR FROM WET ROOMS



COMPACT P INSTALL OVERVIEW

Ducting

LINE 4 – EXHAUST AIR TO OUTSIDE

Metal grille

(keep min 1.5m apart from exhaust)



Inline combined grille

(Where 1.5m separation is not practical)



Exterior surface of thermal envelope

Depending on design, in most cases this is the ceiling level.

160mm Dia Pre-insulated duct



200mm coupler



Thermoduct 90° elbow



200mm coupler



160mm Dia Pre-insulated duct



200 to 150mm rubber reducer



NOTES

Exhaust air duct needs heavily insulated to prevent a cold bridge between the air leaving the Compact P and the warm air within the dwelling.

Keep Exhaust Air duct as short as possible.

Thermoduct pre-Insulated ducts are advisable and wrapped with 75mm (3 x 25mm) foil backed insulation for Passive House.

Exhaust air will be typically up to 5°C cooler than the incoming air.