

# Air Excellent

## Radial air distribution of MVHR units using semi-rigid ductwork



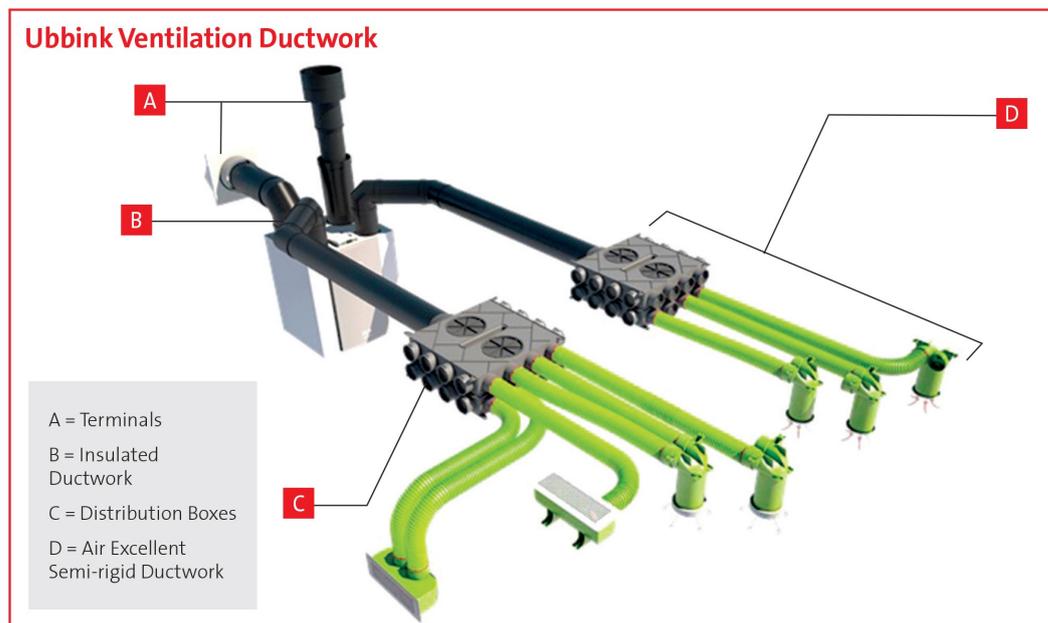
The Air Excellent air distribution system is a radial ductwork system designed to distribute air for central mechanical ventilation units with heat recovery (MVHR) used to ventilate residential and small commercial buildings.

The system has several components:

- Roof and wall terminals (common to all systems);
- Mass flow ductwork between the building fabric and MVHR unit (common to all systems);
- Sound attenuators (common to all systems, but optional);
- Mass flow ductwork between the MVHR unit and distribution boxes;
- Two distribution boxes; one for supply and one for extract;
- Semi-rigid plastic duct (on a roll) and other accessories, including valve adaptors;

The MVHR unit is connected to the distribution boxes using insulated mass flow ductwork and the semi-rigid duct, which is supplied in 50m rolls, is rolled out to supply fresh air to the habitable rooms and extract stale moist air from the wet rooms. The semi-rigid duct uses airtight, mechanical connections, which can be connected in seconds and without using sealants and/or tape. The air flow rate in each duct can be set by air flow restrictors in the distribution box and Ubbink supplies a free commissioning tool, which can be used to determine how many rings to cut out of the air flow restrictors.

### System layout



### Features and Benefits

- Low(er) system pressure loss due to radial design means that the MVHR unit doesn't have to work so hard and waste energy and produce too much sound, which may be experienced as noise hindrance;
- Duct on a roll and airtight mechanical connections means very quick and consistently high quality installation without sealant and/or tape;
- Very quick commissioning using the commissioning tool and air flow restrictor rings;
- Easy and quick maintenance.