

UNIT SPECIFICATON

The unit is the MultiPlexBox as supplied by Airflow. The unit provides an efficient method of air management and distribution within your mechanical extract ventilation system. The unit can adjust according to your air requirements and can detect humidity and VOC's when combined with optional sensors. This unit will enable your MVHR unit to achieve clean air standards and has been designed to offer minimum airflow resistance. The unit is manufactured from steel, inside the unit shall be sound attenuating foam blocks which reduce noise pollution. Airflow will be controlled within the unit using the flow damper regulated by pressure sensors located internally in the unit. The unit shall make use of Ø75mm and Ø125mm supply and extract ports, depending on the selected model. The unit can be vertically or horizontally mounted to the wall, a sloping roof or the ceiling and can be fixed into concrete using the connection plate. When installing the MultiPlexBox behind a suspended ceiling or hollow wall, a service door will be required with internal dimension of 800mm x 1200mm for maintenance of the unit. Information on mounting and the maintenance of the unit shall be given in the instruction manual provided by Airflow. The unit's lightweight design also allows for easy transportation. The MultiPlexBox can replace multiple individual components if you were to recreate what the Multiplex box can offer (2 x silencers, 2 x volume flow controllers, 2 x sound attenuators, air quality sensors). This allows the creation of a more efficient demand ventilation system using the MultiPlexBox. It shall be sized as indicated on the relevant dimension diagrams. Its technical performance will be in line with the technical specification provided in its accompanying datasheet.

CONTROL OPTIONS

The unit shall be controlled through sensors and interactive controllers mounted in your local vicinity. Commissioning of the unit is simple using Airflow provided software. Enter the desired values and airflows and replicate this across multiple areas and units. Each box can be named and located on the software for easy reference.

All the controls for the unit are as listed below:

Demand Control options:

- Combi Sensor (RH+VOC)
- Humidity Sensor (RH)

Manual Control options:

- Central Controller
- ECO Element Controller
- Touch Element Controller

OPERATION

The unit is intended for the supply and extract ventilation of living spaces and buildings, in combination with a central ventilation system. The unit is not a ready-to-use product and must be operated once it has been installed and connected to the mechanical extract and supply ventilation system.

The unit shall consist of a supply air chamber and an extract air chamber. The chambers are equipped with air pressure sensors and a volume flow control damper. The volume flow control dampers can be controlled separately for both extract and supply chambers.

Supply and extract air rooms shall be defined in advance of the unit's installation.

KEY FEATURES

The features and benefits of the unit are:

- Highly durable and easy to maintain unit.
- Low flow resistance and high noise attenuation.
- Fast and effortless installation.
- Airflex Pro connections are airtight due to the sealing ring design and offer better performance than a traditional branch system.
- Flexible mounting positions, on the floor, ceiling, wall, and concrete.
- Efficient air distribution and ventilation for your desired space.

COMMISSIONING

The MultiPlexBox commissioning software allows central commissioning of all units in the network, through the means of a single laptop. These settings can then be applied across your MultiPlexBox distribution boxes.

Key benefits of the commissioning software:

- Complex and time-consuming pressure difference measurement is eliminated.
- Individual adjustment: Various additional configuration options are available where required.
- Once set, the defined parameters can be saved on a PC and transferred to other boxes.

Each MultiPlexBox installation will enable precise air distribution and is able to communicate back to the main system where airflows are locally adjusted.

The commissioning software enables you to configure the set extract and supply air requirements for each room and enables you to configure the BUS address of your unit, as well as adjust sensor sensitivity, see any errors and set controllers for the unit.