

## OPUSXBOX

### Consultants Specification

#### Operation

The supply and extract ventilation unit shall be as indicated on the drawings and shall be in accordance with the particular fan schedule in the specification. Where a stand alone heater battery it will raise the temperature of the supply air to the design room temperature after the air has passed through the heat exchanger. The ventilation unit shall automatically vary the ventilation rate, as it receives signals from one of the optional interconnected sensors. When signals are received, the fan shall either vary its speed proportionally or on a trickle and boost principle. The unit shall have the facility to commission the supply and extract fans individually via inbuilt minimum and maximum speed adjustment, the fans themselves shall have infinitely variable speed control.

#### OPUSXBOX - unit specification

The fans shall be acoustically lined with high density class "O" flame retardant insulation, giving extremely low noise levels. The unit shall have a heat exchanger block manufactured from aluminium with a thermal efficiency of approximately 70% which shall be protected by G2 grade filters on supply and extract. It shall come complete with a condensate drip tray and drain connection, integral minimum and maximum speed controls, run on timer and facia mounted failure indication. The breakout noise level and power requirements shall be as detailed by the unit manufacturer and as detailed in the ventilation equipment schedule.

The unit shall have low energy, high efficiency d.c. fan/motor assemblies with sealed for life bearings.

The depth of the low profile unit shall not be greater than 185mm and shall incorporate a low profile single point mounting bracket, with a pre-stressed synthetic anti vibration strip.

The unit shall be constructed with two removable panels allowing full maintenance access to all components.

To facilitate the interconnection of branch ducts the unit shall have multiple spigot connections with integrated balancing dampers. Spigot connections provided.

#### OPUSXBOX control options

All versions shall have the following functions integrally mounted within the fan unit on a purpose made PCB, all such components pre-wired and factory fitted by the manufacturer: -

- Integral speed control on supply and extract.
- Integral background ventilation control/set point.
- Integral boost ventilation control/set point.
- Integral run on timer.
- Integral S/L terminal for boost from remote switch, e.g. lightswitch.

The fan unit will have a 5 year warranty.

Units shall be the opusXbox as manufactured by Nuaire.