

CONSULTANTS SPECIFICATION

CLASSAIRE

OPERATION

The Classaire ventilation unit is mounted within a ceiling void above a classroom. Fresh air is ducted from outside directly to the unit and into the classroom. A heating coil is provided to raise the incoming air temperature to the required room temperature.

In order to reduce energy consumption and assist in pre-heating the room a damper arrangement is provided in the base of the unit that will re-circulate tempered air from the classroom into the system.

When the classroom is occupied and when dictated by the CO₂ sensors the dampers revert to full fresh air mode.

This operation can also be programmed to 'top up' the heat in the classroom during periods when it is unoccupied and can be used intermittently during periods of occupation but should be overridden by the CO₂ sensor to ensure that fresh air requirements are maintained.

The operation of the unit shall generally be in accordance with BB93 and BB101.

The unit shall be Classaire as manufactured by Nuaire.

CLASSAIRE - UNIT SPECIFICATION

The unit is rectangular in section and have rectangular, flanged connections at the inlet and outlet ends and at the lower face for a recirculation connection.

The unit shall be manufactured from self finish galvanised steel.

The units shall not have a depth greater than 260mm.

The ventilation unit, shall all be manufactured utilising the latest specialist acoustic treatment to ensure that the noise impact on the classroom occupants is minimal and shall be in accordance with the specification and government guidelines. The entire assembly shall be mounted in accordance with the manufacturers installation & maintenance recommendation.

The unit shall have low energy, high efficiency EC fan/motor assemblies with sealed for life bearings with an anticipated working life of 70,000hours (L10).

The Classaire unit shall comprise the following:-

A two position damper, a set of panel filters, 4 fan modules (operating simultaneously) and a LPHW coil.

Access to the unit is achieved via full size panels at the lower face of the unit to the filter section, which allows for regular maintenance.

The removable panels shall provide access to the following:-

- EC fan module.
- Filters.
- LPHW coil.
- Damper actuator.

The unit shall be the Classaire as manufactured by Nuaire.

CONTROL

Unit control is by others, unless otherwise specified by Nuaire.