

## SUNWARM TILE

### Consultants Specification

#### System description

The Nuair Sunwarm Tile system provides all year round temperature controlled whole home ventilation and shall be intelligent to take multiple inputs from under the tiles, the loft and the outside as required by the user, as expressed through the user control.

The system shall use DC powered fans and low noise low wattage dampers. The electronic controls must be easy to use and not require programming and must include automated and integrated approach to provide hot air as well as fresh filtered air cooling. Remote data logging capability must be built in or optionally available for performance verification.

The unit casing shall be manufactured from thermally lined galvanised steel and shall incorporate 4 no. suspension eyelets to aid installation.

The casing shall have an easily removable panel to allow access for maintenance. The unit shall incorporate filters of G4 grade with an area of approximately 0.47m<sup>2</sup>.

The unit shall incorporate a forward curved centrifugal impeller and high efficiency brushless DC motor fitted with sealed for life, self lubricating bearings and locked rotor protection.

The unit shall incorporate 3 no. air inlet spigots, each with an integral damper, to allow air to be drawn into the unit from any one or two positions within the roof space.

The unit shall be supplied with a purpose designed polymer diffuser for efficient, directable air input using side blanking pieces supplied. The diffuser design shall minimise the accumulation of any condensate run off that may occur in the event of power to the unit being switched off. The diffuser shall have been independently assessed for behaviour in relation to fire and adjacent smoke detectors.

The ducting between the unit and the diffuser and the various roof inlet positions shall be supplied by the installer and shall be insulated. Any materials required to create a plenum or plenums under a tiled or slated roof shall also be supplied by the installer.

The unit shall be supplied with all the necessary temperature sensors and interconnecting cables. The unit shall incorporate 6 volume control settings for maximum flexibility and occupant comfort.

The unit shall be supplied with a user control panel and interconnecting cable. The user control shall allow selection of: on/off, auto/boost and target temperature. The control shall also provide unit/filter status indication.

An internal monitor shall record the unit's operational time.

The unit shall be offered with a 5 year warranty.

For information on reducing radon egress, it is suggested that the details given in Positive pressurisation: a guide to radon remedial measures in existing dwellings may be considered.