PHS_MEV_P - Mechanical Extract & Ventilation

Consultants Specification:

- 1. EC external rotor motors fitted as standard for energy saving. Provided with integral thermal protection, mounted on sealed for life ball bearings, and anti-vibration supports.
- 2. Forward curved centrifugal impeller which is dynamically balanced and directly driven by the motor to provide a smooth airflow through the unit.
- 3. SAP PCDB tested with 3 pipe type results. With readings up to K+6 capacity (achieving at least 60 litres/second) and meeting the following max K+6 specific fan powers (SFP):
 - ! *K*+6 = 0.30 (*w*/*l*/*s*) for rigid pipe.
 - ! K+6 = 0.30 (w/l/s) 75mm semi-rigid pipe.
 - ! K+6 = 0.29 (w/l/s) 90mm semi-rigid pipe.

The chosen machine must use the same pipe type & manufacturer as tested during the SAP testing process!

- 4. Integral humidity sensor with an adjustable humidity response.
- 5. There must be a minimum of 4nr X 125mm inlets and 1nr outlet with tapered connection points.
- 6. Must facilitate vertical or horizontal installation on ceiling, floor or wall and must have a profile of max 250mm when installed.
- 7. The unit shall be constructed with one removable panel for *full access to the control board the fan*.
- 8. Acoustic foam lining to further suppress any sound.
- 9. Designed and manufactured in accordance with EN60335-2-80 (Low voltage Directive) and the EMC Directive.
- 10. The machine must be supplied with a fault indicator which must indicate a fault when the air flow stops or falls under a certain threshold. The fault indicator must clearly show "Normal" and "fault" statues with green and red LEDs respectively and be located in a common area (Landing or kitchen).
- 11. Controls:
- ! Variable speed with local controller.
- ! Variable speed with a BMS or potentiometer.
- ! 3 speed with 3 speed controller.
- ! Manual boost.