



Air Handling Units SAM

Quality standards

VES is a British Standards Institution registered company operating a quality system to BS ISO 9001, certificate number Q 5375. All units are tested to BS 848 part 1.

Case

The SAM unit casings are rigidly constructed using galvanised sheet steel, single skinned or double skinned with an infill of mineral fibre slab or plasterboard. The units can be powder coat paint finished externally if required in Signal grey to RAL7004. All components are easily removed from the SAM Unit, with the fan, heater and panel filter mounted in channels to enable them to be side withdrawn. Sufficient room should be allowed adjacent to the unit for maintenance access. Should the unit be required for vertical mounting this should be stated on the order or specification. The unit is suitable for fitting directly to 25mm proprietary flange duct connections.

Fans

Forward curved centrifugal fans, multi-vane, double inlet double width, direct driven by hub mounted motors. All motors are fitted with high temperature automatic cut-out protection.

Heater - Electric

Electric heater batteries consist of sheathed elements mounted on removable terminal plates and fitted into galvanised mild steel cases. For control purposes they are split into any number of required stages. Safety cut-outs are fitted. Fan over-run timers should always be incorporated into the control system where electric heaters are used. We also recommend the fitting of an airflow pressure switch.

Heater - Hot Water

The standard low pressure hot water heating coils consist of two rows of copper tubes mechanically expanded into plate type aluminium fins. The headers and return bends are also copper and the connections are standard BSP fittings. Frost coils have one row of copper tubes with fins spaced at 6mm.

All coils are subjected to an air under water test of 250PSI. Neither a coil drain nor an air vent is fitted and should be installed on the adjacent connecting pipework.

Filters

The standard filter panel is a continuously spun glass fibre filament, non hydroscopic and flame retardant, with a dust arresstance of 84% to EU3 at a velocity of 1.5m/sec. The standard panel filters and EU4 bag filters are fitted into slide-in channels. EU5 bag filters and above are front mounting and clipped onto the bulkhead.

Download specification from www.ves.co.uk/information-centre