

- b. Automatic switched off by the fire alarm system where required as per specifications under fire alarm and fire protection system and by Civil Defence Authority.
- c. Manual switched off/on by the fireman switch via an override panel installed closed to the central fire alarm panel where required as per specifications under fire alarm and fire protection system and by Civil Defence Authority.

#### **1.2.22.2 Air Handling Units**

- A. All air handling units shall be suitable for outdoor installation, protected against corrosion caused by sewage fumes, and shall consist of:
  - a. Housing constructed of framed modules with common base frame designed for mounting on concrete foundation stripes and prepared for weather proof flashing, made from galvanized steel sheets and profiles, in double skin design with internal thermal and acoustical mineral wool insulation, outside coated with three coats of baked enamel paint. Access doors, with lockable quick release door links, shall be foreseen for easy maintenance and repair.
  - b. Fans shall be centrifugal type double suction fan with backward curved aerofoil wheel, statically and dynamically balanced complete with shaft, self aligning bearings lubricated for life, multi v-belt drive pulley with variable motor pulley for fine adjustment on site, anti vibration devices spring loaded, non combustible flexible connection between fan and housing and between housing and supply air duct, all metal parts made from galvanized steel, shaft made from stainless steel.
  - c. The electrical Motors shall be the totally enclosed fan cooled type (TEFC) motor, IP 55, insulation class F, 3 phase, terminal arranged for Star /Delta or DOL start, as specified under section 3 electrical specifications, foot mounted (B3), 4 poles / 8 poles as per type of starter, mounted on rigid adjustable base plate.
  - d. Air Filters shall be the throw-away type air filter, 2" thick with supporting wire mesh and frame plastic coated, installed in "V" banks for side removal, with gaskets around to avoid air-leakages by-passing the filter.
  - e. Opposed inlet air damper made from galvanized steel, with motorized actuator and actuator link mechanism.