SPECIFICATIONS EUWIND WBKA 1275

(Version with double ventilation column)

- **VERTICAL JET AIR BARRIER WITH MOTOR POWER 15.0 kW**

  Vertical jet (from bottom to top) air barrier for the blockage of industrial doorways with maximum height 5.00 meter and variable width from 4.00 to 5.00 meters, complete of:

  SELF-BEARING FLOOR CHANNEL for doorways with width up to 5.00 meters, made in steel sheet; plates and profiles made in steel, so to support heavy loads and properly shaped for the outgoing of the air through an ejector with variable width of 25 to 40 mm. The floor channel must be provided of clamps with suitable thickness, positioned to be totally buried in the concrete and then to give robustness to the Floor channel - Floor assembly; the channel parts on surface must be provided of special holes to allow the air discharge from the filling concrete.

  90° ELBOW of diameter 500 mm, with function of connection between the distribution channel and the ventilation tower, it must be made in galvanized steel sheet with minimum thickness of 10/10, complete of flange at one end to allow the coupling with the ventilation column.

  SILENCER of internal diameter 500 mm and external diameter 800 mm, having a minimum height in the sound-absorbent part of 1000 mm. It must be made of a galvanized steel sheet with thickness 10/10 in the external part and of a grid with minimum thickness 15/10 in the internal part. Between the two walls, it must be inserted a sound-absorbent panel in mineral fibre of ab. 150 mm. All must be complete of flanges at both ends to allow the coupling with the other elements of the ventilation column.

  AXIAL VENTILATOR with adjustable blades when off, of diameter 560 mm with steel containment case, treated against corrosion by means of a hot-dip galvanization process complete of flange at one end to allow the coupling with the other elements composing the ventilation column. The wing-profile impeller must be made in die-cast aluminium alloy with steel hub, it must be balanced according to the ISO1940 norm, to reduce noisiness and avoid vibrations. The 2-poles motor, with power 2x(4,0+4,0) kW must have an electrical 3-phase supply (400V-50Hz) with protection degree IP44 in F class; the ventilator must be suitable both for horizontal and vertical installation.

  PIPING of diameter 500mm, with function of elevating the level of air intake, all made in galvanized Fe steel sheet with thickness 10/10 and complete of side flanges to allow the coupling to the other elements of the ventilation column.

  REDUCTION 560/500 realized in galvanized steel, to connects the motor of diameter 560 mm, with the ventilation tower of diameter 500 mm. The reduction is complete of flanged ends to allow the matching with the other components of the ventilation tower.

  MOUTH of diameter 500 mm, with function of internal air intake, it must be supplied complete of protection grid to avoid the entrance of bodies from outside and be complete of side flanges to allow the coupling with the ventilation column.

  FIXING STRAP of diameter 500 mm, with function of fixing the ventilation tower to the wall. It must be made in Fe steel sheet with minimum thickness 5 mm.

- **ELECTRICAL CONTROL PANEL FOR DOUBLE VENTILATION COLUMN**
  Electrical control panel for double ventilation column with function of control of the Air Barrier. It must be composed of:

  PROOF BOX with protection level IP55.

  DOOR STOP SWITCH for the supply of the control panel.

  THREE-POSITIONS SWITCH: Automatic - 0 – Manual.

  SIGNALLING BULBS:
  - Thermic running motor signalling "1";
  - Thermic running motor signalling "2";
  - Running motor signalling.

  EMERGENCY STOP BUTTON.

  PREARRANGEMENT for the emergency remote connection.

  ELECTRICAL PROTECTION for the auxiliary circuit with magneto-thermic button and No. 4 electrical protections for power circuit with thermic relay for the motors.

  N°2 Telestarter Delta-Star, chosen on the basis of the type of motor used in the ventilation tower, complete of timer and thermic relay, properly sized.

  START BUTTON in Manual operation.

  STOP BUTTON in Manual operation.

- **SOUND-PROOFING COVERING**
  Soundproof shield for axial fan, composed of two half-shells realized in galvanized steel sheet, with thickness 10/10, which are connected together by means of latches with hook clamp, to simplify assembly and disassembly operations. Into the coverings, it must be positioned a sound-absorbent material composed of flexible polyurethane foam, self-extinguishable at open cells, with density of 25-30 Kg/m^3 and thickness of 50 mm.

- **SOUND-PROOFING CAP**
  Sound-proofing cap made in galvanized steel sheet of thickness 10/10, in it must be positioned a sound-absorbent material composed of flexible polyurethane foam, self-extinguishable at open cells, with density of 25-30 Kg/m^3 and thickness of 50 mm. It must be placed in intake of the ventilation tower, to hit the propagations of the noise towards up.