Open circuit cooling towers
for medium-large installations
The PME K19 series cooling towers are manufactured with a high thickness (3-5 mm) steel bearing frame, which is hot-dip galvanized after all works and with fibreglass sandwich panels of 22 mm thickness. This kind of panel is made by a double laminated layer with supporting expanded material in between. This construction grants, also on large surfaces, a great mechanical strength and a good dropping water noise absorption. The surface of the fibreglass, moreover, is protected by a gel-coat that is resistant to UV rays, hot and cold water and abrasion due to weather and chemicals. The filling material is made of self-extinguishing PVC with 19 mm flute (for industrial waters). The multi-blade axial fan grants high performances with low electrical power input. The basin has a sloping bottom with rounded off corners, to enable an easy emptying to simplify its cleaning.

The PME K19 series includes 26 models, all available with or without water basin. This series covers a capacity range (approximate cooling capacity referred to temperatures conditions 40°C in, 30°C out, 24°C wet bulb) between 580 and 3.600 kW.

The following accessories and/or construction variants are available for all models on request:
- three-phase heating element with control thermostat
- minimum level cut-out switch
- control panel
- stainless steel metal parts (instead of hot-dip galvanized steel)
- manholes / removable side-walls to allow inspection, easy cleaning and maintenance to the internal components of the cooling tower.

The PME K19 series is also available in other versions:
- Silent, to reduce the noise emissions (measured and calculated in compliance with ISO 3744 and EN 13487)
- Container, for an easy transportation optimising despatch volumes and reducing costs
- CW, for clean water
- NVP, for water containing moderate quantities of suspended solids
- GS, for water containing high quantities of suspended solids
- ATT, for high temperature water
- PME-E K12, Eurovent/CTI certification
1. Structure and casing
   Material:
   - bearing frame in hot-dip galvanized steel after all works, fibreglass sandwich panels, thickness 22 mm.

2. Water basin (optional) and top cap
   Material:
   - orthophthalic polyester resin, reinforced with several layers of glass fibre matting.

3. Filling material (or heat exchange surface)
   Material:
   - PVC autoestinguente.

4. Multi-blade axial fan
   Material:
   - Motor support: hot dip galvanized steel (after all works), fan blades: plastic material reinforced with glass fibre, or aluminium, fan screening grid: stainless steel.

5. Hot water distribution system
   Material:
   - PN 10 unified PVC pipes, polypropylene nozzles.

6. Anti-splash louvers on air intake openings
   Material:
   - fibreglass louvers (on request: PP panels in a suitable galvanized steel frame).

7. Manhole or totally removable side wall (optional)
   Material:
   - fibreglass sandwich panel, thickness 22 mm, in a suitable hot dip galvanized steel frame.

8. Junction box
   Material:
   - technopolymer.

9. Bolts, nuts and washers
   Material:
   - acciaio inossidabile 304 (nessun utilizzo di bulloni autofiletant).
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For data concerning other versions, please write to export@mitac.it