PME-E K12

Open cooling towers
The PME-E K12 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 12 mm flute. 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-E K12 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 650 and 3.700 kW.

ACCESSORIES AND CONSTRUCTION VARIANTS

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.

Eurovent Certita Certification (ECC) & Cooling Technology Institute (CTI) together provide the international certification of cooling towers.

Performance certification is the basis for end-users, consultants, contractors, manufacturers and government to ensure correct investment in quality products.
1 Structure and casing
Material:
- bearing frame in hot-dip galvanized steel after all works, fibreglass sandwich panels, thickness 22 mm.
Characteristics:
- great mechanical strength
- external fibreglass gel-coat protection resistant to UV rays, hot and cold water and abrasion due to weather and chemicals
- good noise absorption
- non-corroding.

2 Water basin (optional) and top cap
Material:
- orthophthalic polyester resin, reinforced with several layers of glass fibre matting.
Characteristics:
- external fibreglass gel-coat protection resistant to UV rays, hot and cold water and abrasion due to weather and chemicals
- internal waterproof protection thanks to an impermeable, water repellent, paraffin-containing orthophthalic gelcoat
- sloping bottom with rounded off corners, to enable an easy emptying to simplify its cleaning
- light-weight
- non-corroding.

3 Filling material (or heat exchange surface)
Material:
PVC autoestinguente.
Characteristics:
- 12 mm flute (air/water passage)

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.
Characteristics:
- high performance, low electrical power input
- directly coupled to the electric motor
- unalterable safety over time thanks to the fan screening grid
- non-corroding.

5 Hot water distribution system
Material:
- PN 10 unified PVC pipes, polypropylene nozzles.
Characteristics:
- non-corroding
- uniform and total spraying of the heat exchange filling pack
- MITA exclusive nozzles design, with non-clogging wide passages for a full cone spray.

6 Anti-splash louvers on air intake openings
Material:
- fibreglass louvers
-characteristics:
- non-corroding
- easy to remove even after many years of use.

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.
Characteristics:
- easy connection of the electric motor to the stream supply line.

9 Bolts, nuts and washers
Material:
- acciaio inossidabile 304 (nessun utilizzo di bulloni autofiletantì).
Characteristics:
- non-corroding
- easy to remove even after many years of use.
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<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Water connections</th>
<th>Nominal water flow rate*</th>
<th>Total nameplate fan motor power per model*</th>
<th>Total rated fan motor power per model*</th>
<th>Weights</th>
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* Nominal temperature conditions: 40°C in - 30°C out - 24°C wet bulb

For data concerning other versions, please write to export@mitact.it