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- 1 Motor fan directly coupled to the drive shaft: low installed powers, **low noise levels**
- 2 Shell (casing, top and optional basin) made entirely of **fibreglass. NON CORRODING**
- 3 Water distribution system in PVC, **anti occlusion** spray nozzles for a full cone spurt
- 4 Fill pack (or heat exchange surface) **channel size of 20 mm**, suitable for industrial waters
- 5 Inspection hatch
- 6 Screen grille, nuts and bolts **in stainless steel AISI 304.**

The models of the "PMS" series, designed for the evaporative cooling of clean water of normal physical and chemical composition, with a temperature no greater than 55°C, consist of:

SHELL (casing, top and optional basin) made entirely of fibreglass reinforced polyester resin, structurally self-supporting and of exclusive design, with gel coat external finish as UV-protection.

LOUVERS in polyester resin reinforced with fibreglass (only in the version with incorporated basin).

INSPECTION HATCH with body in polyamide and polycarbonate window, easy to open for visual inspection inside the tower.

FILL PACK (or heat exchange surface) type k19, consisting of self-extinguishing and non-rotting PVC sheets, thermoformed under vacuum and subsequently glued together to obtain blocks.

The fill module thus fabricated has a shape, for industrial water.

DROPLETS ELIMINATOR consisting of sheets in self-extinguishing and non-rotting PVC, thermoformed under vacuum and subsequently glued one to the other to obtain panels of such shape and size as to guarantee maximum efficiency of droplet separation from the airflow produced by the fan.

SUPPORTS for the fill pack and droplet eliminators (if previewed) in hot-dip galvanized steel.

WATER DISTRIBUTION SYSTEM made from UNI-PN 10 pipes and connectors in PVC, consisting of a **main header** and one or more **threaded connectors** to which the spray nozzles are fixed. Water inlet connection is flanged PN 10.

The system has been designed in such a way as to ensure uniform and homogeneous distribution of water to be cooled over the fill pack.

SPRAY NOZZLES are in isotactic polypropylene, of static type, with wide flow-passage and self-cleaning. Of exclusive MITA design, the 120° spray angle and the full-cone guarantee perfect spraying over the fill pack.

MANOMETER SET consisting of **three-way connector**, **hydrometer in glycerine** with body in AISI 304 for measuring the incoming pressure of the water in the tower and a bleed-off tap for controlling water hardness.

HYDRAULIC CONNECTIONS, threaded: **cooled water outlet**, **overflow**, **make-up valve with float** and **bottom drain** in the water collecting basin (if supplied).

AXIAL FAN SYSTEM, direct drive type, consisting of:

- **fan support ring**, complete with protection guard, in steel galvanized after fabrication
- **electric motor** in sealed execution (protection IP 55), constructional form V5, class F insulation, tropicalized winding, multi-voltage (V 220/240 – 380/415, Hz 50/60), maintenance free
- **axial fan**, directly coupled to the electric motor shaft
- **screen grille** in stainless steel AISI 304.

NUTS AND BOLTS in stainless steel AISI 304.

Supply of the tower is limited to the parts listed above. So building and electrical works, pumps, collectors external to the tower, valves, hoisting gear and any scaffolding and labour are therefore excluded.

Any accessories and/or constructional variants are available on request.

NOTE: M.I.T.A. S.r.l. may carry out constructional improvements without notice.

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