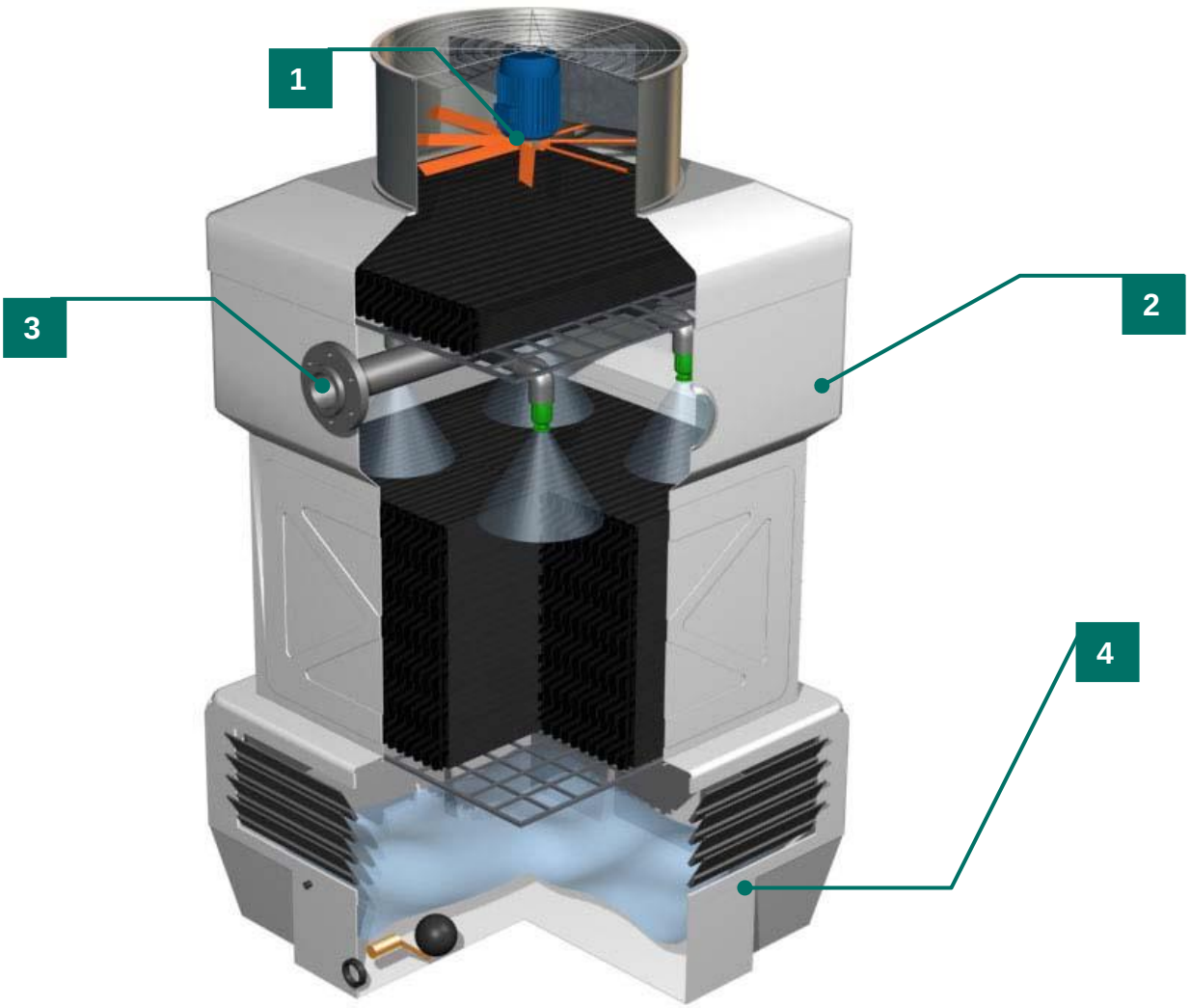

Induced Draft Axial Fan Counterflow Cooling Tower	
Factory Assembled - Modular Compact Design	
1	**IP56** Motor(s) **directly coupled** to low energy and high efficient fan(s)
2	Shell (casing, top and optional basin) **entirely made** of fibreglass reinforced polyester (FRP)
3	Water distribution system with **non-clogging** tangential Polypropylene (PP) nozzles for a full cone water distribution. Flanged water inlet connection(s)
4	Fibreglass reinforced polyester (FRP) water collection basin with sloping base and smooth internal finish with rounded corners for easy cleaning. Flanged water outlet connection(s)

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STRUCTURE AND CASING

SHELL (casing, top and optional basin)
made entirely of fibreglass reinforced polyester resin, structurally self-supporting and of exclusive MITA design, with gel coat external finish as UV-protection. For the version with basin: the water collection basin is totally in fibreglass with sloping base and smooth internal finish with rounded corners for easy cleaning.
Flanged water outlet connection(s).

SUPPORTS
for the fill pack (if necessary, depending on the model) and droplet eliminators in hot-dip galvanised steel after fabrication*.

NUTS AND BOLTS
in stainless steel AISI 304.

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MOTOR FAN

UPPER SECTION(S)
smooth faced air entry fan cylinder(s) entirely in fibreglass reinforced polyester (FRP) with gel-coat for UV-protection.

High efficiency directly coupled axial fan motor(s) assembly designed to efficiently convey discharge air.

AXIAL FAN SYSTEM

- hot-dip galvanised steel after fabrication support
- propeller fan in plastic material, with blades connected to central aluminium hub directly coupled to the motor
- **IP56** sealed execution fan motor(s) (special version for MITA cooling towers)
- multi-voltage (230/400/3/50), (50/60 Hertz), Class F insulation
- protection of the motor-fan set(s) is provided by a grid(s) in stainless steel **AISI 304**.
- electric motor(s) suitable for operation with frequency converter.

INSPECTION HATCH

INSPECTION HATCH
In plastic material, easy to open for visual inspection inside the tower.

DRIFT ELIMINATORS

EUROVENT Certified High Efficiency DRIFT ELIMINATORS
consisting of sheets in polypropylene (PP), thermoformed under vacuum and welded together to form panels of such shape and size as to guarantee maximum efficiency of droplet separation from the airflow produced by the fan, reducing substantially the drift water.

WATER DISTRIBUTION SYSTEM

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WATER DISTRIBUTION SYSTEM
made of UNI-EN-PN 10 pipes and connectors in PVC or PP, full cone (non-clogging) polypropylene spray nozzles for even water distribution.

The water distribution system is supplied complete with manometer for regulation of input water pressure and a bleed-off valve.

Flanged water inlet connection(s).

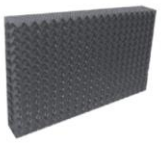
FILL PACK

FILL PACK (or heat exchange surface)
consisting of high efficiency cross-fluted PVC or PP sheets, thermoformed under vacuum welded together into lightweight blocks.

The fill pack type K19 (used as standard) is suitable for industrial clean water and it's resistant to rot, decay and biological attack.

Alternative heat transfer fill packs are available for very clean water ("CW" type) and/or dirty process water ("NVP" vertical film / "GS" grids) and/or high temperature water ("ATT" version) and low ambient temperature ("SNOW" version).

"K" fill pack panel with 19 mm FLUTE (PVC or PP)



"K" fill pack panel with 12 mm FLUTE (in PP)

"NVP" antifouling fill pack panel (in PVC or PP)

"GS" fill panel in PP

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AVAILABLE OPTIONS

MOTOR-FAN PROTECTION

PTC (Positive Temperature Coefficient): overheating motor protection, useful in case of use of motors under inverter (inside the motor).

Anti-condensation heater: to avoid condensation formation inside the motor when not running (inside the motor)

Vibraswitch: detection of anomalous vibration to protect the motor-fan group

MAINTENANCE

Man hole: internal parts inspection hatch.

Materials: metallic parts in stainless steel 304 or 316L.

ANTI-FREEZING ACCESSORIES

Basin electric heater: so to keep basin water temperature between +3°C and +5°C and avoid ice formation in the basin

Minimum level switch: so to avoid electric heater damage in case of water absence in the basin

Electric heater for the fan ring: so to avoid ice formation of between blades and fan ring

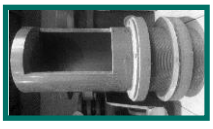
WATER BASIN ACCESSORIES

Filter: water outlet connection filter in stainless steel 304.

Anticavitation connection

Louvers: cellular structure, to reduce sunray water exposure and water leaks of from the basin

Frameworks to avoid the entrance of leafs in basin



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