

## RC

Open circuit cooling tower  
Centrifugal fan



Water flow range from 15 to 310m<sup>3</sup>/h

- *X-STREAM for heavy duty waters*

COMMERCIAL DOCUMENTATION

# Heavy duty open cooling tower: RC series

## Casing structure

The self-supporting panels made of galvanized steel as a standard have been twice or 4 times folded over the 4 sides (JACIR design) allowing sound attenuation casing with very low sound levels, also proposed in **SILVER STEEL** or **X-STEEL** stainless steel in option. The water tightness between the panels is ensured by a special designed high covering seal and stainless-steel rivets. This JACIR design gives extremely rigid panels once assembled, ensure **unique strength and waterproof** cooling towers.

As a standard, a large door (1290 x 640 mm) in the same material as the cooling tower is provided to allow quickly access or removal of the drift eliminators, nozzles, exchange surface and water distribution pipes.

## Basin

The basin has been designed to consider the needs and inertia of the installation. In order to reduce bacteria growth, panel's assembly has been realised without any bolts or screws for the parts in contact with water. The sloped and flat basin is equipped with a drain and a **POWER FLOW** hatch, both located under the lower level of the basin, enabling a **quick and complete drain** of all sludge or other accumulated parts during cleaning maintenance. The basin is also equipped with integrated access door (540 x 990 mm) to ease maintenance.

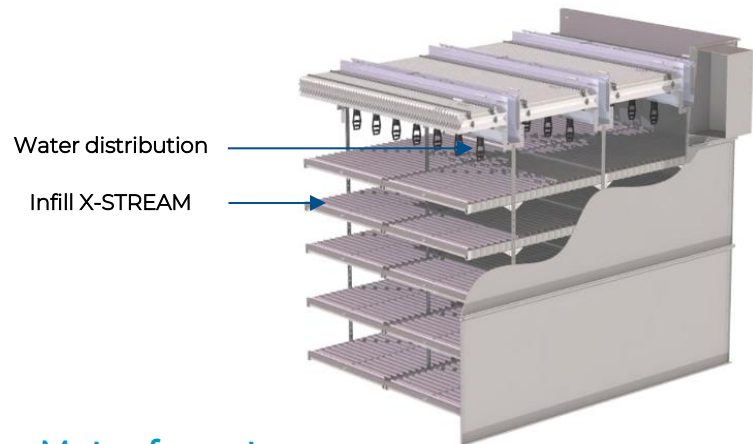
## Water distribution

Water is distributed by PP pipes or by steel open air channels. They are installed with PP nozzles especially designed to achieve an optimal distribution through the whole air section, and with large water nozzles to avoid clogging even in the case of high suspended solids content. These nozzles operate under low pressure, in order to low pumping head and to distribute large size drops, which prevents the drift from getting out of the cooling tower.

## Exchange surface

The infill is made of PP blades. They equally spread the water along the blades, into drops down to the lower blades' layers.

The cooling occurs during the drops fall between the blades' layers; therefore, this exchange surface is highly resistant to clogging. It can be used for water with solids content up to 400 ppm. By thermal expansion, the **X-STREAM** is self-cleaning in the case of water with high salts content.



## Motor fan set

The centrifugal fans specially designed and manufactured by **JACIR**, have continuously been perfected over the years. The impeller is a double side air inlet type. Polyester air inlet ducts are profiled to optimise air suction and allow impeller removal. Located in the dry air flow and outside the tower basin, motor fan set is **protected from corrosion** by a baked epoxy coating. The elliptical scroll is made of **X-STEEL** stainless steel.

## Options

- ∞ **IB sound attenuation** without increase power consumption,
- ∞ **ICV / ICVK** or **special** sound attenuation levels
- ∞ **X-TRACT system** **JACIR** innovative patent specifically designed to facilitate installation and maintenance operations: infill, water distribution, drift eliminators and outlet cone are completely removed in one unique craning, allowing then easy cleaning at ground level and a free access to cooling tower internals.

## Other options

Internal ladders, two speed motors, electro valve driven by level switch, automatic inductive blow down, frequency drive device, fan regulation thermostat, safety water level, all accessories in **X-Steel** stainless-steel, on-site erection and / or supervision etc.