

Flow rate range : from 6 to 190 m³/h
Power from 20 à 2 000 kW

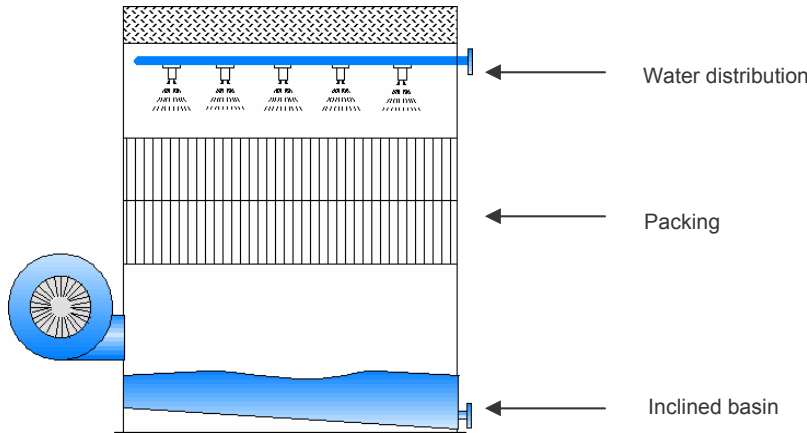
S series

Single fan open circuit cooling towers

Single fan open circuit cooling tower : S Series

Principle of operation

An open circuit cooling tower is a counterflow heat exchanger cooling the water by direct contact with the air, and above all by the evaporation of a negligible quantity of water. This is the solution makes it possible to reach the lowest temperature by contact with ambient air.



Advantages of JACIR - AIR TRAITEMENT system

- Performances are guaranteed by tests carried out at CETIAT, an independent laboratory confirmed by more than 25 year-experience.
- Optimised solution, adapted to customer's specific needs thanks to a very large range of models and options.
- Very low noise level: the large diameter of aspiration of our fans allows slower rotation speeds, so a low electrical consumption and very low sound level.

Fans

The fans manufactured by **JACIR - AIR TRAITEMENT** have been continuously perfected over the years. The double inlet cones in polyester are over sized to allow low total pressures and slow rotation speeds with very low sound levels.

These fans located in the dry airflow and outside the tower's basin are protected from corrosion by a thick rubber based coating (350 to 400 microns on each face) with attractive acoustic characteristics

Maintenance

- Very easy thanks to the location of the fan: at man's height.
- Fan wheels may be stripped with access through the polyester inlet cones (sparkling proof construction)
- Large access doors.

Options

Automated inductive Deconcentration, 2 speed motors, support beams, electric level control with electro-valve, anti-deflagration, air dumper, high temperature packing, assembly on site, etc...

Environment protection

- Three sound attenuations :
 - standard : IB,
 - complete (with/ without double casing), ICV/ ICVK.
 - NR 30 to 10 m : 35 dB(A) at 10 m.

- Plumless system: **Jacir - Air Traitement** design.

(Option: See Hybrid tower : SIM)

- Plume reducing system,
- Plume suppression system,
- 30% to 50% water savings per year.

Casing

All the panels of the tower casing are folded twice at the 4 sides.

The advantage of this desing is the production of extremely rigid pannels, which once assembled, offer an unequalled solidity of our towers.

Anti-corrosion protection- 2 possibilities:

- 275 gr. per m² galvanised sheets coated outside with a zinc-enriched paint. All the sheets are folded outwards so that the inside surface is completely protected by the zinc coating.
- Stainless steel sheets (304 L or 316 L)

Note: Possibility of a protection with a polyester powder baked before assembly of the tower (for all sheets not in contact with water.



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