

# S

## Open Circuit Cooling Tower



Water flow range from 11 to 190 m<sup>3</sup>/h

Capacity 20 to 4440 kW

- Silence
- Performance

## Low noise open cooling tower: S range

### Casing

All the galvanized steel cooling tower panels casing have been twice or 4 times folded over the 4 sides, also proposed in **X-STEEL** stainless-steel as an option (corrosion resistance higher than 316L). The water tightness between the panels is ensured by a special designed high covering seal and stainless-steel rivets. The JACIR design gives extremely rigid panels once assembled, ensuring unique **strength** and **waterproof** cooling towers.

### Basin

The basin has been thought to take into account the needs and inertia of the installation. In order to reduce bacteria growth, panel's assembly has been realized without any bolt or screw for the parts in contact with water. The sloped and flat basin is equipped with a drain and a **POWER FLOW** access, both located under the lower level of the basin, enabling a **quick and complete drain** of the sludge or other accumulated parts during cleaning maintenance. The basin is also equipped with integrated access door (540 x 390mm) to ease maintenance.

### Water distribution

Water distribution is made with several PVC pipes which feed polypropylene nozzles and distribute water in the form of a full jet cone. These nozzles are screwed to the distribution pipes (stainless-steel screws and bolts), for an **easy maintenance** and a **strong mechanical resistance**, equipped with an internal turbulator so that a uniform water distribution reaches the exchange surface.

### Exchange surface

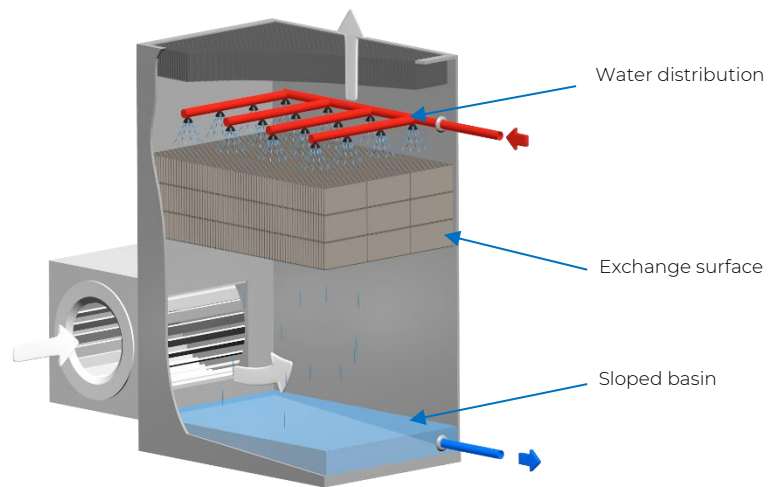
Made of highly resistant polypropylene sheets, the **EFFI-PACK** infill is not subject to crumbling and UV proof.

It provides a maximum exchange with free surface, avoiding fouling risks.

### Accessibility

As a standard, a large access door made of the same material than the tower allows an easy removal and cleaning of the drift eliminators, sprayers, heat exchange surface and water distribution.

The « **POWER FLOW** » trapdoor, located under the low level of the slope basin makes the water drain and cleaning easy.



### Motor fan set

The fans especially 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. All maintenance points, including the copper offset grease line, are placed in the dry airflow, out of the basin and at ground level for quick and easy access. The impeller is **protected from corrosion** by a baked epoxy coating. The elliptical scroll is made of **X-STEEL** stainless steel.

### Silence

- ∞ **IB** sound attenuation without increase power consumption,
- ∞ **ICV/ICVK** or **special\*** sound attenuation levels.

\*Sound attenuation models are not ECC certified.

### Options

#### Plume suppression coil\*:

JACIR **patent** (hybrid **SIM\*** series) plume suppression system: 30% to 50% water savings per year.

Automatic Inductive Blow down (Dai), frequency drive device, two speed motors, electro valve driven by level switch, all accessories in **X-STEEL** stainless-steel, on site erection and/or supervision, etc.