

Flow rates : from 70 to 570 m<sup>3</sup>/ h  
Cooling capacity : from 1100 to 3 300 kW

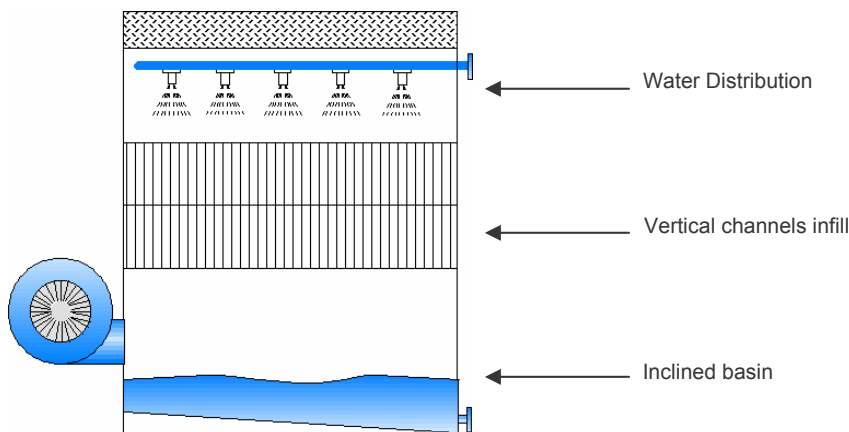
## KS Series

Open circuit Cooling Towers  
Centrifugal fan  
FREEFILM

# Forced draft cooling tower : **KS** Series

## Sound and energy savings

The fans, designed and made by Jacir, have been continuously improved. The 2 air inlets are oversized for low pressure and low speed operation : very low sound level. So the power consumption is very low. The fans are located in the dry air flow, out of the basin, and are protected by thick latex based paint : 350 to 400 microns on each side).



## Infill : FREEFILM

It is made of PVC sheets, up to 55 °C as standard ; in PP or in ABS up to 80 °C. Assembled, it shows large vertical channels of 12 or 20 mm. This technology offers an extended exchange surface, a very efficient fouling resistance, and low pressure drop thanks to the vertical channels.

## Water distribution

Water is distributed by polypropylene pipes, and by nozzles especially designed to achieve an optimal distribution through the whole air section. So the complete surface of the infill is watered. 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.

## Tower casing

All the panels are folded twice or 4 times at the 4 sides of the panels.

This design secures extremely rigid sheets which, once assembled, provide an unequalled sturdiness and tightness to our towers.

## Large capacity basin

The basin incorporated to the tower has been designed for long thermal inertia in the case of installation thermal fluctuations. The basin is inclined to secure a complete and clean drain. Large access doors are provided : 540 X 540 mm. Finally, all the connections are located on the same panel (overflow, drain, make up water supply, electrical heater ...).

To avoid bacteriological growth, the assembly of the panels is made without any welds and without screws on the parts in contact with water.

## Environment protection

Two levels of sound attenuation :

- ✓ **IB** sound attenuation, without absorbed power increase.
- ✓ **Special** sound attenuation : casing with baffles at both air inlet and outlet, with tower casing attenuation, according to sound level to reach.

**Plumeless system: JACIR – AIR TRAITEMENT** system  
(Option : see open circuit hybrid towers series **KSIM**)

- ✓ Plume reduction system,
- ✓ Plume suppression system,
- ✓ 30% to 50% water savings.

## Anti-corrosion protection - 3 options :

- 275 gr / m<sup>2</sup> galvanized sheets coated outside with zinc paint. All the sheets are folded onto the outside of the tower in order to ensure that the inside of the tower is completely protected by the zinc coating.

- Stainless steel sheets (304 L or 316 L).

- Option for protection with a polyester powder baked before assembly of the tower (for all sheets not in direct contact with water).

## Options

Automatic Deconcentration by Induction (Dai), frequency converter, support beams, level switch with electro valve, control panel, explosion proof motors, site erection...



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