



Flow rates : from 250 to 2 000 m³/ h/cell

KBH Series

CONCRETE COOLING TOWERS
Forced draft axial fan
Infill : FREEFILM

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Know how and innovative technology:

The KBH series combine both high efficiency of the exchange surface and water spray system with extreme simplicity for the construction and the maintenance by complete extraction of all the internals.



Water distribution channels

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The exchange surface, or infill is made of vacuum pressed PVC sheets.

This material is non-putrescible, long lasting, also offers the following benefits :

- has a very low pressure drop, so low power consumption thanks to the vertical channels,
- has a high thermal efficiency,
- is highly resistant to fouling thanks to large size channels : 12 or 20 mm,
- can be used up to 55°C as standard, and up to 80°C as option with PP or ABS material,
- is resistant to chemicals.

Water distribution

The water is distributed by polypropylene pipes, and by polyamide 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 (0.8 mCE), 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

It is in concrete. From the fan arrangement, it results very simple and low cost civil works: the casing consists in four smooth walls with a square opening for the fan connection. The forced draft design does not require any louvers, has no light entering in the basin and no water lost in windy conditions. The design of the infill secures very short time for installation and for cleaning by simple IN/ OUT lifting.

Environment protection

Sound attenuation :

The KBH cooling towers are initially low sound. In addition, their design makes it possible to select the right fan orientation towards the most favourable direction. To improve even more the sound performances, we can offer additional sound attenuation, adjustable according to the sound level to reach : fan speed reduction, low sound fans, sound attenuators in the basin, fan housing, air outlet cone with sound attenuating material.

Sound and energy savings

The forced draft axial fans are particularly efficient, with a very low absorbed power. In addition, the coupling by gear box makes it easy to select the best ratio efficiency/ sound power level and mechanical resistance. At man chest, those fans are located in the dry air flow, and out of the basin and are inserted in a stainless steel fan stack with inclined bottom. They are provided with fan guards.

Options

Frequency converter, two speed motor, Automatic Deconcentration by Induction (Dai), explosion proof motors, site erection, plume suppression coil, etc...



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