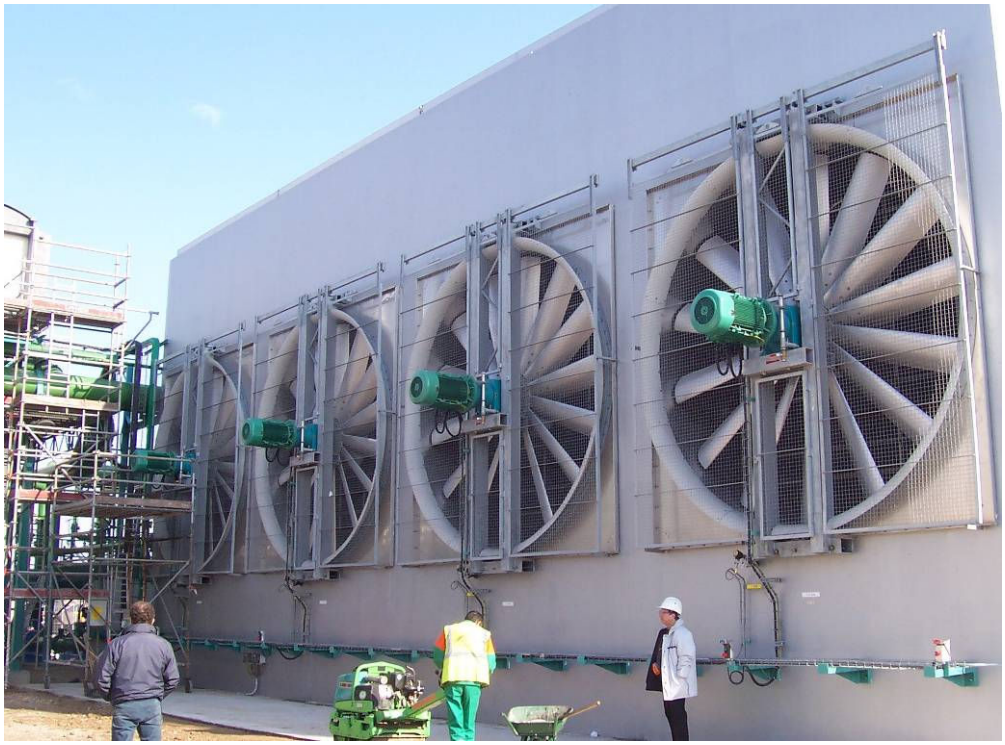
COMMERCIAL DOCUMENTATION

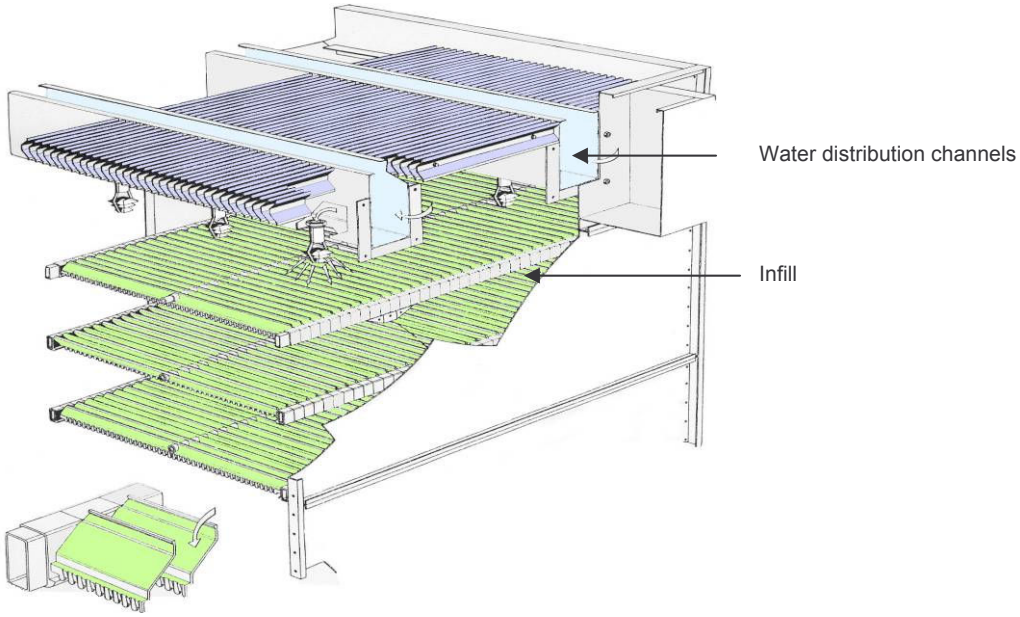


Flow rates : from 350 to 2 000 m3/ h/cell

RBH Series

CONCRETE COOLING TOWERS
Forced draft axial fan
Infill : X–STREAM
For very heavy duty waters

RBH Series



Infill : X - STREAM

It is made of PP toothed 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 waters with high salts content.

Water distribution

Water is distributed by steel open air stainless steel 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 by gravity, 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.

Environment protection

Sound attenuation :

The RBH 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, 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. Placed 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, Automatic Deconcentration by Induction (Dai), frequency converter, support beams, level switch with electro valve, explosion proof motors, fan non freezing device, site erection…

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