

ATM-ATIM

Open cooling tower
Hybrid open circuit cooling tower

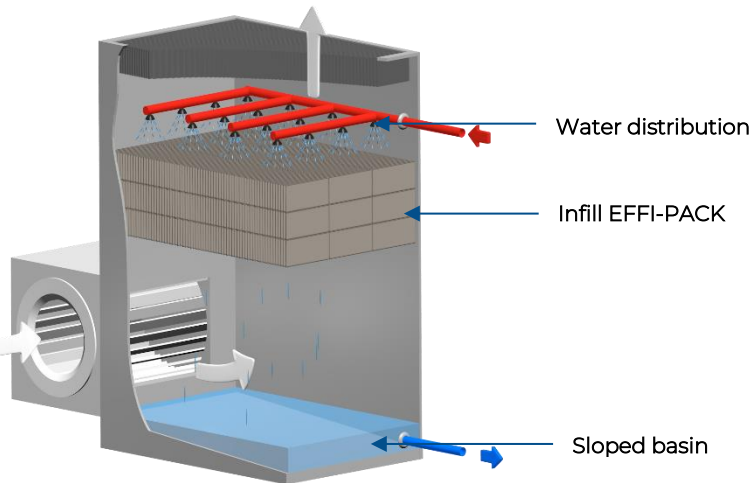


Water flow from 60 to 295m³/h
Power from 300 to 3 000kW

- *Modular conception*
- *Multi ventilation*

COMMERCIAL DOCUMENTATION

Open silent centrifugal cooling tower: ATM series



Casing structure

In standard, self-supporting rigid panels are in galvanised steel ZENDZIMIR process gr/m² 275 (galvanised plates are protected by the zinc oxidation on the surface). 2 or 4 folds on the four sides of the casing, plates are assembled with waterproof stainless-steel rivets (uniform, high-density locking), and without welding or screwing for the parts in contact with water. Once assembled, panels give our towers **solidity and incomparable tightness**.

In option, X-STEEL stainless-steel is available (corrosion resistance higher than L316)

Basin

The **inclined and plane basin** is equipped with a drain connection and a **POWER FLOW** hatch below the low level of the basin to boost an **easy and quick evacuation** of any impurities during the cleaning.

A large access door (mm 540 x mm 390) is integrated in order to ease the **accessibility** to the basin.

It has been integrated to the tower (L 490 x L 610 per module) and has been designed to answer the response time of the setting-up. Finally, panels have all servitudes (overflow, drain, water make-up, antifreeze resistance, ...)

Water distribution

Water distribution is made of PVC pipes equipped with polypropylene nozzles. Especially designed to achieve **optimal water distribution at a very low height**, nozzles distribute water in form of a cone of a full jet cone in order to obtain an even distribution over the entire exchange surface. Screwed to the pipes, they allow an **easy disassembly** while ensuring a **good mechanical strength**.

Exchange surface: EFFI-PACK

EFFI-PACK exchange surface is made of PP sheet, UV and crumbling resistant. Its design offers an **important free surface** within the exchange surface, which is limiting risks of clogging. High resistance to chemicals and impacts, it has an excellent temperature resistance.

Modular conception

The **ATM** series is available with 4 to 5 modules, one fan per module and a single motor driving a maximum of two fans. If the motor drives three fans, the connection would be ensured by a flexible coupling between the shaft carrying two fans and the shaft carrying the third fan.

Unique height of the **ATM** series without option: 2.42m.

Fans

The centrifugal fans are especially designed and manufactured by Jacir, and upgraded throughout years. The impeller is a double side air inlet and the air inlet ducts, made of polyester, allow a total pressure and a low rotation speed resulting in a **very quiet and a low power consumption** operation. These fans, placed in the airflow inlet, out of the basin, and at human height in order to ease maintenance.

Silence

Level of acoustic protection proposed as an option:

- ∞ IB standard sound attenuation,
- ∞ ICV complete sound attenuation,
- ∞ ICVK complete sound attenuation with double casing.

Options

Plume suppression coil (**ATIM** hybrid series), two-speed-motor, beams, electrical level control with electro valve, electro valve guided by level contractors, electrical cabinet, speed variator, **EFFI-SILENT** basin sound attenuation, assembly on site,