



 Make your cool choice

Evaporative Condensers

Our Company

TECHNOLOGY, SUSTAINABILITY AND PERFORMANCE FOR YOUR SYSTEM

Evaporative condensers are the ideal solution for dissipating large thermal powers with minimal water consumption. **W-tech** condensers are all **PED certified** and they are the only ones made entirely of **Magnelis®**, an environmentally sustainable alloy made up of 93.5% zinc, 3.5% aluminium and 3% magnesium. The percentage of magnesium allows the self-repair process after cutting operations and protects deformed surfaces. Moreover, the corrosion resistance is very high even in chlorine and ammonia rich environments.

Choose the right condenser for you

- **CAA axial fans evaporative condensers**, externally similar to evaporative towers, actually have a reinforced structure to support the weight of the coils and the recirculation pump.



- **CAP axial forced evaporative condensers** are a viable alternative to the suction version thanks to easier installation and maintenance of individual units due to the positioning of the motor and fan.

- **CAPX evaporative condensers with preassembled axial EC fans.** Here the ventilation system is based on the independent operation of 2 banks of fans equipped with EC motors, controlled by an electronic board, which are self-regulating according to the outdoor temperature.

- **CC centrifugal fans evaporative condensers**, are a classic solution for systems located in areas where a defined noise level must be met and that use refrigerants such as ammonia and freon gas. Inlet and outlet silencers can be installed upon request, further lowering the sound emission of the unit.



- **CCR low-profile centrifugal evaporative condensers** are the best solution in cases of limited space, especially in height. It is common to make them with vertical air intake when the installation is well.

Features and benefits

TECHNICAL FEATURES

The standard unit is constructed of **Magnelis®** ZM310 panels for maximum surface protection. All machine connections are galvanized steel (AISI 304L upon request).

The **air intake grilles** are PVC with a dual flow-change geometry so as to limit both the passage of sunlight into the basin and the passage of any debris or accidental spillage of water.

The **basin section** is constructed with a thick structure and is equipped with a removable AISI 304L anti-cavitation type filter and water make-up valve, with brass/stainless steel body and stainless steel or polypropylene floating ball.

The basin surface is sloped to allow complete drainage and emptying in case of maintenance, preventing water stagnation and bacteriological development.

The standard **heat exchange coil** is made of smooth tubes (finned optionally) of carbon steel (AISI 304L on request), bent following our proprietary geometry. It is hot-dip galvanized in accordance with UNI EN ISO 1461:2009 to ensure a perfect seal against corrosion. Finally, the coil is tested in accordance with the PED-CE standard.

Water is uniformly distributed by a **pipng system** inside the machine, made of PVC with a **Magnelis®** sheet metal distribution box. The spray nozzles are non-clogging type, medium and large diameter, made of ABS and easily replaced in case of maintenance.

The **drop separators** are made of PVC (PP on request) divided into several pieces to facilitate their removal in case of replacement or inspection. The separators used to allow passage of 0.001% of the droplets present at the inlet eliminating further water loss and possible accumulation of aerosols containing Legionella.

All components are supplied assembled. Each unit, prior to delivery, undergoes **hydrostatic testing** to ensure that there are no water leaks in the tank, and electrical testing to verify that the electric motors have absorption in line with the nameplate data.

Main benefits

REDUCED ENERGY CONSUMPTION, FROM 20% UP TO 80%, COMPARED TO AIR COOLING



MORE THAN 95% WATER RECIRCULATED



LOWER INITIAL INVESTMENT, COMPARED TO OTHER COOLING SYSTEMS



LOWER ENVIRONMENTAL IMPACT, DUE TO LOWER ENERGY CONSUMPTION



LESS SPACE REQUIRED, COMPARED TO AIR-COOLED MACHINES



WATER TREATMENT

To effectively prevent fouling or bacterial contamination, **W-tech** has developed **W-CARE**: a broad-spectrum treatment system that acts both as an antiscaling, anti-algae and antibacterial biocide.

Proper water treatment extends the life of the system and the tower itself while minimising consumption.

INNOVATIVE MATERIALS

We invest in the future through a research and development plan. This allows us to optimize processes and introduce the most innovative materials on the market in the construction of our products

CUSTOMIZATION

Each of our solutions can be customized based on the customer's needs, to offer the state of the art of heat dissipation.

WHY CHOOSE W-TECH?

CERTIFICATIONS

With a view to continuous quality improvement, our company is part of some of the most important world bodies and certification institutes.



CUSTOMER SUPPORT

We provide our experience to provide pre/post sales advice. We are able to provide solutions very quickly.

w.tech[®]

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