

ILMED IMPIANTI produces the main components of cooling towers: fans, electrical motors and complete fan groups, fillings, drift eliminators, nozzles and distribution systems. When identifying spare parts, special attention is paid to the customer's needs, the type of tower involved and the quality of the materials used.

Ilmed Impianti supplies spare parts for any kind of cooling tower from any manufacturer.

> REVAMPING

IN ADDITION TO THE CONSTRUCTION AND INSTALLATION OF NEW COOLING TOWERS, ILMED IMPIANTI ALSO CARRIES OUT REVAMPING ACTIVITIES OF EXISTING TOWERS, INCLUDING TURNKEY SOLUTIONS, ON ANY TYPE OF EXISTING COOLING TOWER.

Ilmed Impianti can develop:

- ✓ Inspection of the tower
- ✓ Analysis of thermal loads
- ✓ Study and analysis of the characteristics of the original project
- ✓ Study of thermodynamic enhancement and energy saving
- ✓ Revamping design
- ✓ Supply of materials and components
- ✓ Installation and assembly work
- ✓ Start-up and performance tests

> SPARE PARTS AND MAINTENANCE

ILMED IMPIANTI SUPPLIES COMPLETE PROGRAMMED AND PREVENTIVE MAINTENANCE SERVICES TO GUARANTEE OPTIMUM PERFORMANCE DURING THE WHOLE LIFE CYCLE OF THE SYSTEM, BOTH FOR THE TOWERS BUILT BY ILMED AND FOR THE SYSTEMS SUPPLIED BY ITS COMPETITORS.

ILMED IMPIANTI produces and supply every type of spare parts of cooling towers as fans, electrical motors, filling, drift eliminators, nozzles and distribution systems.

When identifying spare parts, special attention is paid to the customer's needs, the type of tower involved and the quality of the materials used.

> RENTAL

THE RENTAL SERVICE OF ILMED IMPIANTI PROVIDES THE TEMPORARY USE OF A SINGLE COOLING TOWER OR A GROUP OF TOWERS, THUS COVERING THERMAL CAPACITIES FROM 2 MW UP TO 20 MW AND MORE FOR SPECIFIC TIME INTERVAL.

The cooling towers, pre-assembled type, are shipped in self-transportable modules, then easily and quickly installed on-site.

- ✓ INCREASE THE COOLING CAPACITY: following production peaks or critical environmental conditions
- ✓ ELIMINATE THE PLANT SHUTDOWN: during maintenance
- ✓ HAVE THE REPLACEMENT TOWER: during a breakdown or revamping of towers
- ✓ MAINTAIN THE OPERATING CONDITIONS REQUIRED BY THE SYSTEM

BEING PART OF ILMED GROUP.



www.ilmed.it

The **Ilmed Group** is capable of producing **ideas, solutions, products and services** through a complete **and integrated development system**, from the feasibility analysis to the realization of a specific project.

The Group is made by **Companies** which work in the **Industrial sector** and in the **Services sector**. Within the Group the skills of personnel specialized in designing, plants, logistics and services for automotive are integrated in the application of technologies and materials which enable the optimization of the final product and service, according to the customer needs.

In a market which awards the suppliers which are able to offer a global service, the **Ilmed Group** is a **partner** which is able to follow each part of the project development and to guarantee results with certified quality.



INDUSTRY DIVISION



SERVICE DIVISION



PARTICIPATE



COOLING WATER Equipments



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UNI EN ISO 14001:2015
UNI ISO 45001:2023

PRODUCTS RANGE

ILMED IMPIANTI - WATER COOLING TOWERS

ILMED IMPIANTI is an Italian company, established in Avigliana, Northern Italy, since 1981.

Along many years of successful results, ILMED IMPIANTI acquired knowledge, experience and innovation skills, to become one of the most qualified and leading player in Water Cooling Towers applications, both in Italy and abroad. During this period our company supplied over 10.000 cooling systems in 90 different countries worldwide.

> OPEN-TYPE PACKAGE COOLING TOWERS

PRE-ASSEMBLED COOLING TOWERS ARE QUICK AND EASY TO TRANSPORT, INSTALL AND MAINTAIN, WITH A HIGH LEVEL OF FLEXIBILITY IN ALL APPLICATIONS.

PRODUCT RANGE:

- ✓ **T** Induced draft, steel structure and truncated cone fan stack cooling towers
- ✓ **GT** Induced draft, steel structure and flat fan deck cooling towers
- ✓ **NC** Induced draft, steel structure cooling towers for dirty waters application
- ✓ **GTP** Induced draft, frp structure cooling towers
- ✓ **ITC** Forced draft, steel structure cooling towers with centrifugal fans

Open-type package cooling towers can be manufactured in different type of steel (painted, hdgs, stainless steel) or in frp with film, splash or hybrid-type filling.

> CLOSED-TYPE PACKAGE COOLING TOWERS

PREASSEMBLED CLOSED-TYPE COOLING TOWERS ALLOW TO COOL A FLUID INSIDE A TUBE BUNDLE HEAT EXCHANGER (PRIMARY CIRCUIT). WATER (SECONDARY CIRCUIT) IS USED AS COOLING FLUID AND IS SPRAYED DIRECTLY ON THE HEAT EXCHANGER BY MEANS OF A DISTRIBUTION PIPING SYSTEM.

PRODUCT RANGE:

- ✓ **IC³-AR** Induced draft evaporative cooler

The secondary circuit water is cooled by its own evaporation, fostered by a constant air flow. Depending on the environmental conditions, it is also possible to only use air as secondary (cooling) fluid, with corresponding water and energy savings. Closed-type package cooling towers are supplied pre-assembled with dimensions compatible for truck or container transport.

> EVAPORATIVE CONDENSERS

PREASSEMBLED EVAPORATIVE CONDENSERS ALLOW TO CONDENSATE A GAS INSIDE A TUBE BUNDLE HEAT EXCHANGER (PRIMARY CIRCUIT). WATER (SECONDARY CIRCUIT) IS USED AS COOLING FLUID AND IS SPRAYED DIRECTLY ON THE HEAT EXCHANGER BY MEANS OF A DISTRIBUTION PIPING SYSTEM.

PRODUCT RANGE:

- ✓ **IC³-AC** Induced draft evaporative condenser

The secondary circuit water is cooled by its own evaporation, fostered by a constant air flow. Depending on the environmental conditions, it is also possible to only use air as secondary (cooling) fluid, with corresponding water and energy savings. Evaporative condenser are supplied pre-assembled with dimensions compatible for truck or container transport.

ILMED IMPIANTI can be considered a reliable consulting partner, able to deal together with the client in the evaluation and best solution identification for every water cooling problem. Our company can provide the whole range of product, services, turnkey project, and covers the most different needs of power and performances, being the best partner for water cooling application. ILMED IMPIANTI has always been attentive to the environmental impact and health issues and has developed its systems reducing the energetic consumptions.

> MODULAR COOLING TOWERS

MODULAR COOLING TOWERS ARE COMPOSED BY TWO OR MORE SEPARATE MODULES EQUIPPED WITH A COMMON FAN SECTION. THEY ARE THE IDEAL SOLUTION FOR MEDIUM SIZE APPLICATIONS AND REPRESENT THE MIDDLE WAY BETWEEN PACKAGE AND FIELD-ERECTED COOLING TOWERS.

PRODUCT RANGE:

- ✓ **TK** Induced draft, steel structure cooling towers, modular type

They are supplied in pre-assembled modules, with compatible dimensions for transport by truck or container. Thanks to the high degree of prefabrication, on-site erection times are significantly reduced compared to those required by a field-erected cooling tower.

> FIELD ERECTED COOLING TOWERS

COOLING TOWERS ASSEMBLED DIRECTLY ON SITE, USED IN LARGE INDUSTRIAL PLANTS WITH MEDIUM AND LONG LIFE CYCLE AND WITH HIGH LEVEL OF HEAT DISSIPATION.

PRODUCT RANGE:

- ✓ **IC** Induced draft, concrete structure cooling towers
- ✓ **FC** Forced draft, concrete structure cooling towers
- ✓ **TGK / TRK** Induced draft, steel or frp structure cooling towers

Key features: design criteria, carefully selected, state of the art components and materials to ensure the best long-term result. Field erected towers can be made of concrete, steel and pultruded fibreglass. Field erected towers are designed using sophisticated software with particular regard to international standards & local regulations and are able to operate in extreme weather and high duty conditions, in corrosive or marine environments.

> TURN-KEY PLANTS

ILMED IMPIANTI' S TECHNICAL OFFICE DEVELOPS DESIGNS FROM THE ASSESSMENT OF THE CUSTOMER NEEDS TO STARTING UP THE SYSTEM. ILMED IMPIANTI'S ATTENTION IS FOCUSED ON ENERGY SAVING BY DEVELOPING DIFFERENT DEDICATED SOLUTIONS.

In addition to supplying cooling towers, ILMED IMPIANTI can develop:

- ✓ Detailed Engineering
- ✓ Pumping and distribution systems
- ✓ Water Treatment
- ✓ Filtration systems
- ✓ Supervision and monitoring

The Company has numerous references in the creation of turnkey cooling systems which include the supply of pipes, pumping stations, supervision, water treatment and control systems.

ILMED IMPIANTI can support the customer needs during all the phases of the project:

1. Identification of needs
2. Conceptual design
3. Engineering
4. Purchase and construction
5. Installation and start-up
6. Post-sales service & spare parts

> WET DRY COOLING TOWERS

WET DRY COOLING TOWERS ARE CHARACTERIZED BY FINNED TUBE BUNDLE HEAT EXCHANGER SYSTEMS. THE DRY SECTION ALLOWS THE POST-HEATING OF THE SATURATED STEAM LEAVING THE TOWERS, HENCE THE PLUME IS NOT VISIBLE DURING THE COLD SEASON.

MAIN SCOPE AND CHARACTERISTICS:

- ✓ Low environmental impact application
- ✓ Water saving solution
- ✓ Package and Field Erected Cooling Tower

The Company has developed since beginning 2000 a big number of projects in different kind of applications.

> DRY COOLERS / ADIABATIC DRY COOLERS / FIELD ERECTED DRY COOLERS

PREASSEMBLED COOLERS ALLOW TO COOL A FLUID INSIDE A FINNED HEAT EXCHANGER. THE POWER EXCHANGE TAKES PLACE COMPLETELY IN A DRY MODE OR, IF IMPROVED PERFORMANCES ARE NEEDED, IN AN ADIABATIC MODE.

Fields of application:

- ✓ Air Conditioning / Process Cooling / Automotive / Power Generation

Power range for the single unit (up to 20 fans): 20-2020 kW

The fluid flowing inside the finned heat exchanger is cooled by a constant airflow, ensured by EC fans. These machines can be equipped with an adiabatic system which fosters the heat exchange and increases the performances. Dry coolers and condensers are supplied pre-assembled with dimensions for truck or container transport. Tube bundles can be manufactured in a flat or a V shape.

> WATER TREATMENT AND FILTRATION PLANTS

ILMED IMPIANTI IS A SPECIALIZED AND QUALIFIED SUPPLIER OF A COMPLETE RANGE OF PRODUCTS AND SERVICES FOR THE WATER TREATMENT.

The water treatment and filtration systems are an essential part in the operation of cooling towers. These systems improve the performance of cooling towers and of all the production system.

Our integrated systems can be divided into:

- ✓ Skid for chemical dosing and water control
- ✓ Softening plants
- ✓ Filtration systems

A COMPANY OF 

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