



Industrial Frigo®

The original Frigo



ENGLISH



GRW

WATER CHILLER UNITS
WITH WATER CONDENSATION



Industrial Frigo was founded in 1970 in Italy, near Lake Garda, thanks to an idea that came from an engineer with a passion for cooling systems. Strong principles and the goal of offering only high-quality products have allowed the company to establish itself as a leader in the creation, design and construction of advanced refrigeration systems.

Thanks to the support of an exceptionally talented team, Industrial Frigo has experienced exponential growth in recent years, conquering ever-wider world markets worldwide and different production to be able to respond to the specifics that the increasing market requires.

Industrial Frigo continues to be a family-run company but today it includes four foreign branches and a sales and service network in over 120 countries. Continuous research and technological development of environmentally friendly solutions are leading the company towards a new era of ecologically sustainable growth and innovation.



All Industrial Frigo products are compliant with **PED directive 2014/68/EU (ex 97/23/CE)**.



The Industrial Frigo corporate management system is certified by the **UNI EN ISO 9001 standard**.



Certification in compliance with standard **EC 303/2008** for the installation, maintenance and repair of equipment containing F-gas.



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The water chilling units of the **GRW** series are monobloc units with water condensation for dedicated installation.

The **GRW** series is especially designed for cooling moulds of plastic processing machines; they may also be used in other similar industrial processes.

APPLICATION AREAS



PLASTIC



DIE-CASTING



PACKAGING



PHARMACEUTICAL



AUTOMOTIVE



RUBBER



FOUNDRIES



STEEL WORKING

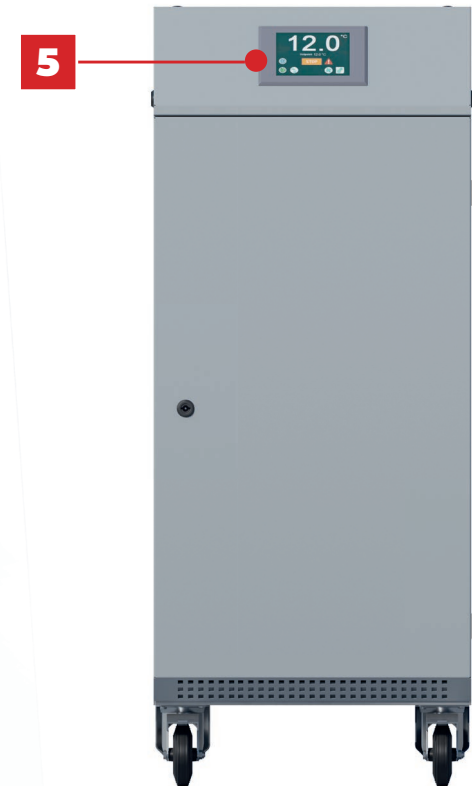
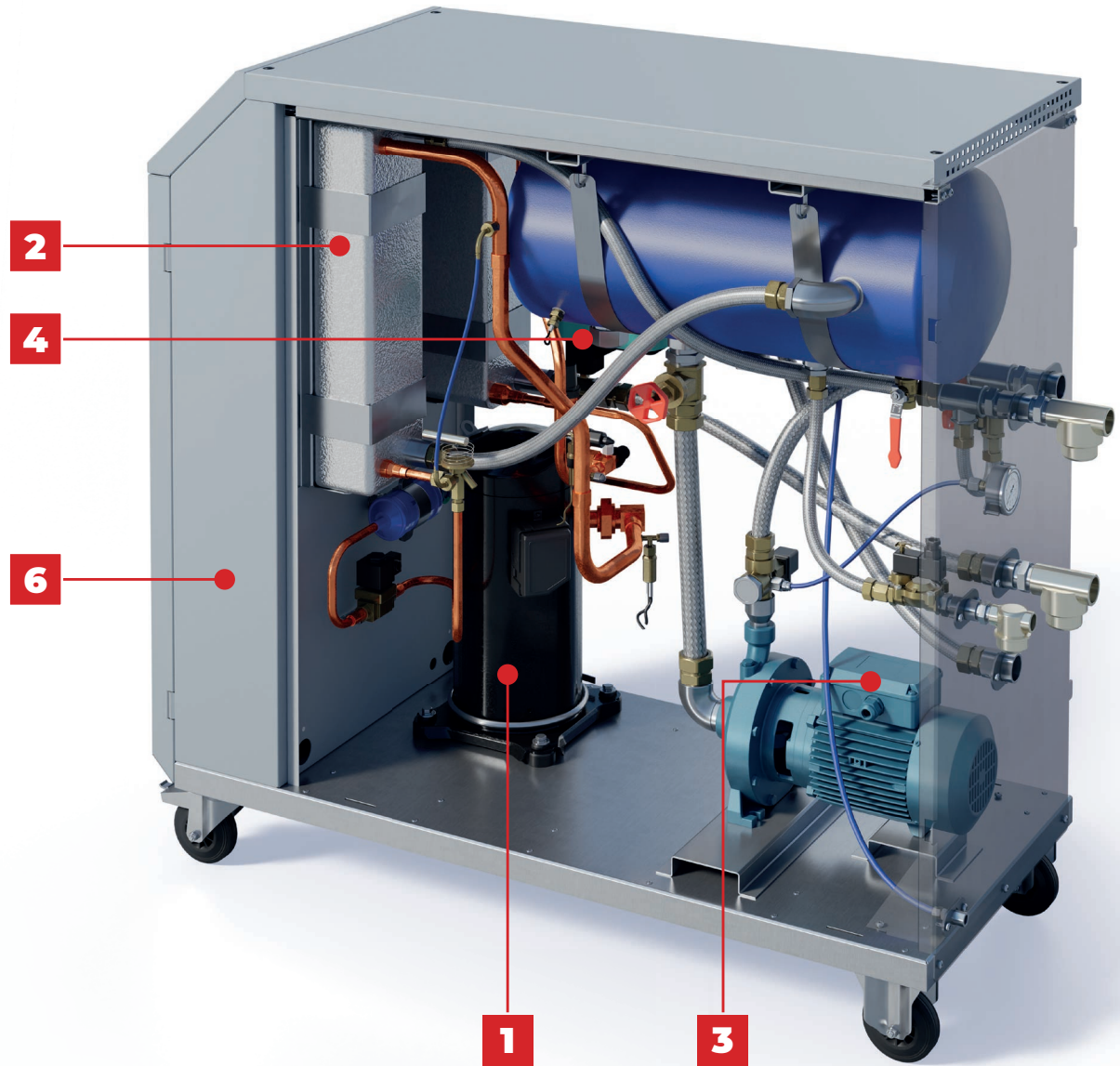


FOOD



GLASS

TECHNICAL FEATURES



1 HIGH EFFICIENCY SCROLL COMPRESSOR

The use of compressors with orbiting Scroll technology ensures total reliability together with high efficiency levels.



2 PLATE EVAPORATORS AND CONDENSERS

Brazed stainless steel plate evaporators and condensers, characterized by maximum reliability and heat exchange efficiency. These heat exchangers ensure great compactness and versatility of use.



3 HIGH EFFICIENCY PUMP

Close-coupled centrifugal pump with wide operating range, ensures maximum-efficiency cold water flow rates for utilities.



4 AUTOMATIC FREE COOLING KIT

Inside the unit a dedicated free cooling valves allows maximum automatic energy saving.



5 USER FRIENDLY PLC CONTROLLER

Touch Screen PLC for temperature control and automatic zone management, predisposed for serial connections. Featuring an extremely clear and intuitive user interface which allows the user to display the description of functions and alarms.



6 FRAME PAINTED RAL 7001

The unit is supplied in a steel frame painted with thermosetting powder paint based on resins in the color RAL7001. Formulated with pigments and additives specifically chosen for their high resistance to UV rays and atmospheric agents.



MAIN OPTIONALS

CUSTOM WATER PUMP

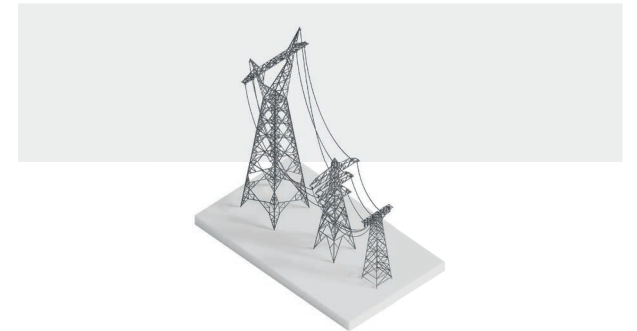
Depending on the flow rate and pressure drop requirements of the system, it is possible to choose the most suitable pump from a wide selection.

AUTOMATIC MOLD DRAIN

An integrated system of valves makes it possible to drain the unit circuit, in order to facilitate the mold-change operation and recover the fluid contained inside.

SPECIAL VOLTAGE OPTIONS

It is possible to choose the most suitable type of unit power supply (voltage and frequency) from a wide range of possibilities.



ACCESSORIES

REMOTE PANEL

One or more refrigeration units can be controlled by using remote panels. These can be interfaced via serial link (CANBUS), with touchscreen panels, or via ethernet connection (via IP addressing) using PCs and mobile devices. For maximum system flexibility, other types of protocols can be used, such as PROFIBUS, PROFINET and MODBUS TCP.



GLYCOL FILLER

The automatic glycol filler enables the correct mixture of water and glycol to be replenished inside the refrigeration plant (chiller, dry coolers). The function of the glycol in the system is to prevent water from freezing in the pipes and in the heat exchangers.



SOFTENERS

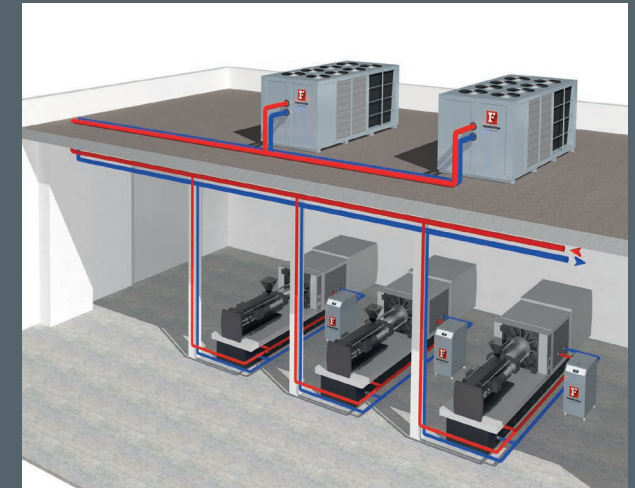
These devices are used to reduce water hardness by using special resins capable of ion exchanging. Salt is used to regenerate these resins.



AUTOMATIC BY PASS

Special device used to control the flow of water inside the circuit. It consists of a two-way motorized valve, a pressure transducer and a control panel.

INSTALLATION





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4 SALES AND AFTER-SALE SERVICES
120 LOCAL SUPPORT POINTS