



Industrial Frigo

The original Frigo

Products Guide



COOLING UNITS

Industrial Frigo cooling systems are monoblock units fitted with a pump and a tank. They have been designed so as to gain maximum efficiency, thanks to their low energy consumption given in working conditions (COP 6). They are built so as to allow for adding new units of a similar or different cooling capacity at a later time. Many models are built with a frame in galvanized sheet iron that makes them suitable for outdoor fitting.

Cooling units are divided into 11 main groups:



RANGE	VERSION	GAS	COOLING	CAPACITY
GRA	Water cooling units by air condensation, modular and tropical version	R407C (ecological)	19,9 - 832 kW	17.100 - 715.000 kcal/h
GR1A	Water cooling units by air condensation, modular version	R407C (ecological)	28 - 1.500 kW	24.000 - 1.290.000 kcal/h
GR2A	Water cooling units by air condensation	R407C (ecological)	2,2 - 118 kW	1.800 - 101.000 kcal/h
IFGA	Water cooling units by air condensation - modular version with screw compressors	R134A (ecological)	228 - 1.120 kW	196.100 - 963.200 kcal/h
GRW	Water cooling units by water condensation - modular version	R407C (ecological)	7,2 - 832 kW	6.200 - 715.000 kcal/h
GRWI - GRAI	Air cooling units with air or water condensation	R407C (ecological)	13,0 - 124 kW	11.200 - 107.000 kcal/h
GTA	Water cooling units by air condensation with temperature control function	R407C (ecological)	7,2 - 51 kW	6.200 - 43.900 kcal/h
GTW	Water cooling systems by water condensation with temperature control function	R407C (ecological)	7,2 - 51 kW	6.200 - 43.900 kcal/h
GFA	Air cooling units by air condensation - modular version for over tropicalised climates	R134A (ecological)	30 - 970 kW	25.800 - 834.000 kcal/h
GF1A	Water cooling units by air condensation, modular version	R134A (ecological)	30 - 960 kW	25.800 - 826.000 kcal/h
GXA	Water cooling units by air condensation	XP40 (ecological) R449A	2 - 20 kW	1.720 - 17.200 kcal/h

AIR BLAST COOLERS - ADIABATIC & ENTHALPIC SYSTEM

It was designed for get the maximun energy saving using the ambient air. These are compacts units made up of an air blast cooler fitted with a pump, fans and control board. The cooling capacity of these systems is increased by adding two or more modules together, which may have a similar or different cooling capacity.

The modules may be combined at different times. All models are galvanised and thus suitable even for an external fitting.

Air blast coolers are divided into 6 main groups:



RANGE	VERSION	COOLING	CAPACITY
BRW/HP ENTALPIC	Air-water and glycol in closed circuit	22 - 1.000 kW*	19.000 - 860.000 kcal/h
BRW/A ADIABATIC	Air-water and glycol in closed circuit	90 - 1.000 kW*	77.400 - 860.000 kcal/h
BRW/CA ADIABATIC	Air-water and glycol in closed circuit	90 - 740 kW*	77.400 - 636.000 kcal/h
BRG/HP ENTALPIC	Air-Water in open circuit (gravitational dumping)	80 - 900 kW*	68.000 - 774.000 kcal/h
BRG/A ADIABATIC	Air-Water in open circuit (gravitational dumping)	90 - 900 kW*	77.400 - 774.000 kcal/h
BRG/CA ADIABATIC	Air-Water in open circuit (gravitational dumping)	90 - 640 kW*	77.400 - 550.000 kcal/h

* DT 5°C

The gravitational discharge version that is being produced since 1997 was designed to avoid addition of anti-freezing fluid to the process fluid, whereas in some production processes it is not usefully.



WATER AND OIL TEMPERATURE CONTROL UNITS

Temperature controllers are compact units including one heating zones (this is either electrically or gas heated) and a cooling zone, they are connected by a hydraulic circuit fitted with a delivery pump. The units are equipped with a sophisticated electronic adjusting system, which allows a precise heating control, the electronic instrument is equipped with a serial interface. Temperature controllers are divided into four main groups:



RANGE	VERSION	HEATING CAPACITY
TW/WTA	Simultaneously in pressure and depression water up to +95 °C	3 - 36 kW *
TWP/WTP	Pressurized water up to +180 °C	9 - 27 kW *
OTA	Diathermic oil up to +350 °C	9 - 36 kW *
TC 500	Water/Air "Hydrofrog" up to +500 °C	36 - 72 kW *

* Bigger capacities by demand

It is important highlight that are the first in the market with the unique and innovative technology such as temperature controllers working with water in pressure and depression simultaneously, that have enable Industrial Frigo to present itself as a pioneer on the market for these units.

SAVING INTEGRATED SYSTEMS

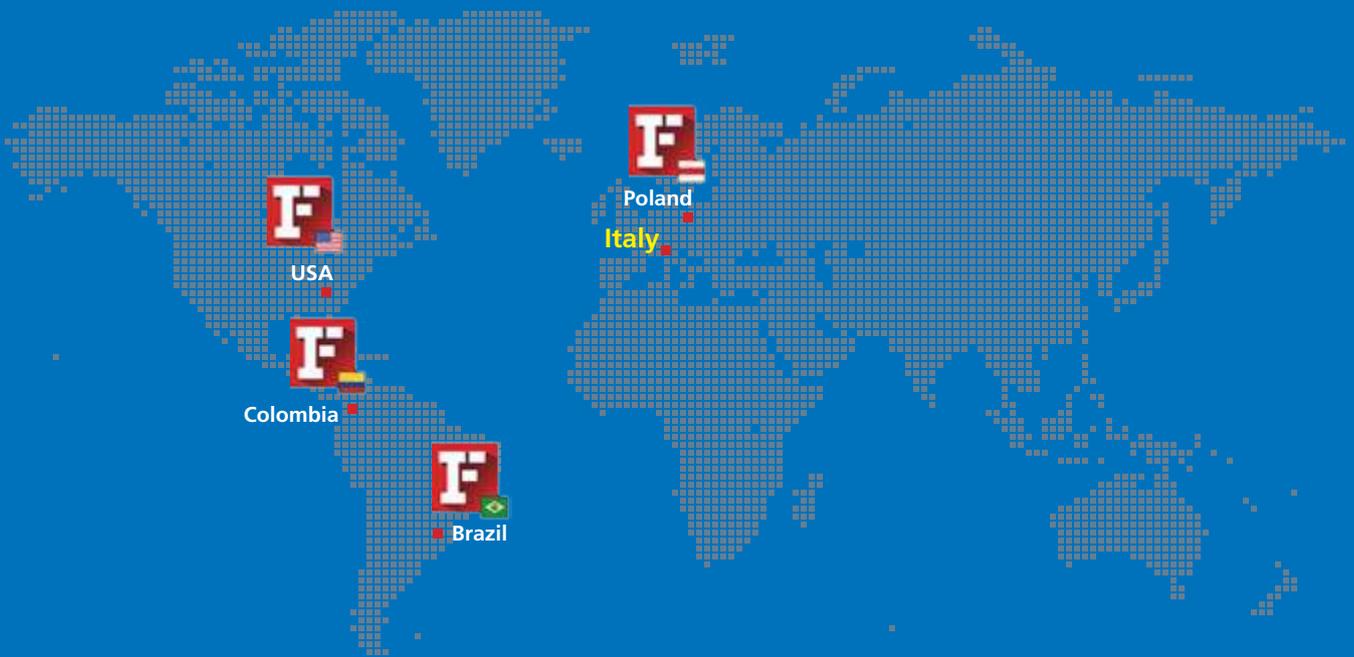
Industrial Frigo long experience has allowed us to design a range of economising integrated systems that helps reduce energy consumption with considerable saving. These systems are fitted with high efficiency cooling units, sophisticated temperature control units, and special air/water air blast coolers.

These systems, using ambient air it can, cool down complete industrial plants fully or partially replacing traditional cooling units.

There are several customized versions suitable to satisfy the most peculiar requests. Technical-sales staff are available to evaluate and offer the best possible solution for your needs.



RANGE	VERSION	N° OF HYDRAULIC CIRCUIT	N° OF OUTLET TEMPERATURE
RB	Air condensed cooling unit and air blast cooler	1	1
RBW	Water condensed cooling unit and air blast cooler	1	1
BR	Air blast cooler and air condensed cooling unit	2	1
RBB	Air condensed cooling unit and double air blast cooler	2	2
RBBW	Water condensed cooling unit and double air blast cooler	2	2
BTR	Air blast cooler and thermo-cooling water condensed unit	1	Several
STR	Sire 1 + thermo-cooling water condensed unit	1	Several
SIRE-1	Compact air blast cooler fitted with a water cooled chiller	1	1
SIREG	Compact air blast cooler fitted with a water cooled chiller	1	1



INDUSTRIAL FRIGO s.r.l.

25011 CALCINATO (BRESCIA) • ITALY • Via Maestri, 49
Tel. +39 030 963160 r.a. • Fax uff. comm.le +39 030 9980775
www.industrialfrigo.com • i.f@industrialfrigo.com

Sede legale: Brescia - Via C. Zima, 5 - Cap. Soc. 416.000,00 i.v.
Codice Fiscale e Partita IVA n. 03375000175 - RI - BS - REA N.366634

INDUSTRIAL FRIGO s.r.l. reserves the right to modify any technical or functional feature without any previous notice.



Rev. 2.00

