



RICA

2000 s.r.l.

INDUSTRIAL - REFRIGERATION - EQUIPMENT - CONSTRUCTION

CHILLER SERIE "ECO-PLUS"



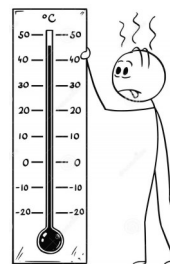
Remote management



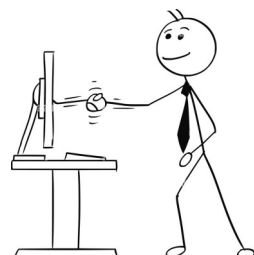
Real-time detection of absorption and yield in kW.



Heat recuperator



Variable power in "automatic" or "manual" mode.



= more savings for new investments



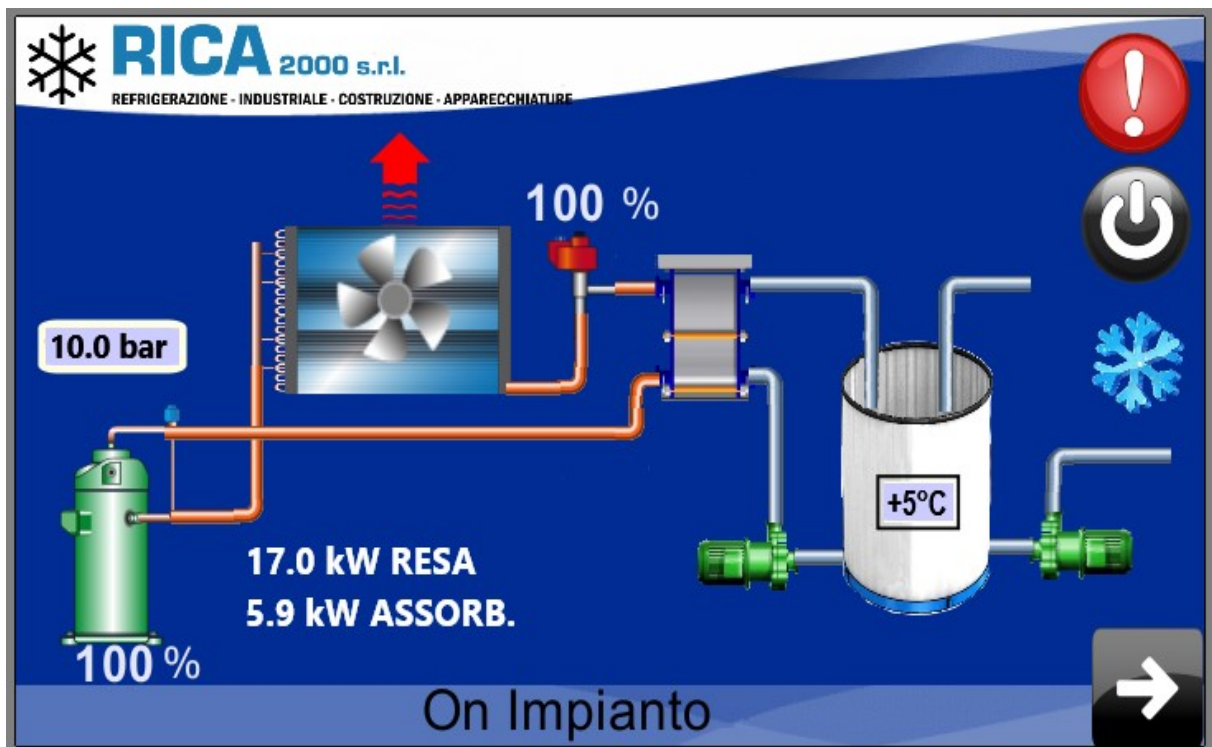
CHILLER series "ECO-PLUS"



Model ECO.Plus 9 B "all stainless"

Mechanical and electrical efficiency = Eco-Plus project.

The **chillers** of this series **optimize** the operation of the refrigeration unit according to the **temperature required** by users. Designed as a **variable power** unit, they are used in industrial and commercial sectors where a high degree of **thermoelectric efficiency** is required.



The chiller provides **two modes** of operation, "**automatic**" with variable **power** from **40% to 100%** depending on the temperature of the glycol solution, "**manual**" with the possibility of setting the **maximum power produced** to optimize the electrical consumption according to the **energy** available by the company.

Hermetic scroll **variable power** compressor with rotation speed managed by dedicated **inverter**. The panel displays data in **kW of electrical absorption** and **cooling power** delivered by the unit at any time.

Man-machine interface with **7"** operator **panel**.

Automatic management of the **heat** recovery unit with touch-screen **panel temperature** setting.

Storage and pumping station **integrated** in the chiller with stainless steel tank and **double pump**, primary and uses.

Cooling fan variable speed unit depending on the outside temperature, so as to ensure low noise.



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Mechanical equipment:

N° 1 R448 gas compressor with inverter.

N° 1 Finned condensing pack suitable to dispose of the calories generated by the compressor

N° 1 Axial fans diameter 500 mm.

N° 1 Plate evaporator suitable for the cooling of glycol water at the desired temperature.

N° 1 Sensor for reading glycol temperature in the inlet to the evaporator

N° 1 Glycol temperature reading probe coming out of the evaporator

N° 1 Electronic thermostatic valve.

N° 1 Flow meter for glycol flow reading

N° 1 Internal hydroglycolic mixture storage tank made of AISI 304 stainless steel, complete with external insulation in expanded elastomer plate, lid with handle and connections for glycol circuit and temperature control probe. Capacity 160 lt.

N° 1 Electric pump for recirculation of glycolate cooling water between the storage tank and the evaporator of the refrigeration unit. Assembly inside the group

N° 1 Electric pump for recirculation of glycol cooling water between storage tank and utilities. Assembly inside the group

N° 1 Electric panel for glycol temperature control and refrigeration unit operation management, built according to current regulations, with PLC and 4" touch panel.

At the service of the PLC we find N°1 module energy meter, N° 1 high pressure transducer and N° 1 low pressure transducer.

On the touch you can see on the first page the set point temperature, the working temperature (glycol output), the compressor status, the current absorbed and any alarms.

On the second page the working pressures of the plant and other parameters.

Compressor Data

Cooling capacity glycol a +5°C

Yeld Min. 7,50 kW— Max. 16,95 kW

Abs. Min. 2,60 kW— Max. 5,87 kW

Cooling capacity glycol -8°C

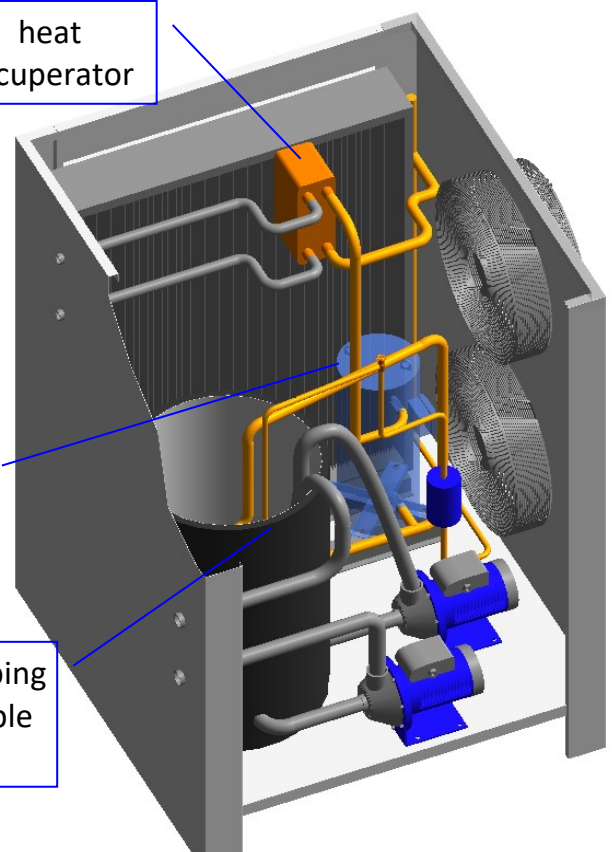
Yeld Min. 4,85 kW— Max. 10,90 kW

Abs Min. 1,84 kW— Max. 5,38 kW

heat
recuperator

Scroll
compressor
with inverter

Storage and pumping
station with double
pump



CHILLER series "ECO-PLUS"



Model ECO.Plus 9 B "all stainless" R448A

TERMS OF USE AND RELATED COOLING YIELDS IN WATT*

OUTSIDE AIR TEMPERATURE	+ 30°C
GLYCOL CONCENTRATION	40% by weight
ANTIFREEZE	PROPYLENE GLYCOL
POWER SUPPLY	400V/3 + n + T / 50 Hz
RATED ABSORBED CURRENT**	17,4 A**
MAX. RATED ABSORBED POWER **	8 Kw**
NOIS EXPRESSED in dB(A) a 1m.	69 dB

COOLING CAPACITY :	7.500 W (40%); 16.950 W (100%)
WITH GLYCOL AT	+5°C
EVAP. TEMPERATURE	0°C
COND. TEMPERATURE.	+45°C

COOLING CAPACITY:	4.850 W (40%) 10.900 W (100%)
WITH GLYCOL AT	-8°C
EVAP. TEMPERATURE	- 14°C
COND. TEMPERATURE	+40°C

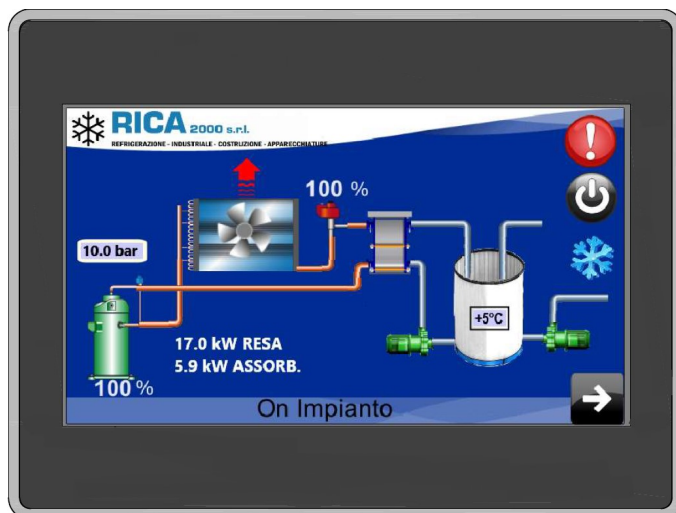
* POWER CONVERSION RENDERED FROM W to KCal x 0.86 ES. 1500 W x 0.86= 12.900 Kcal/h
 ** WITH 2 RESISTENCE FOR HEATING PRODUCTION POWER IS 5 Kw MORE

PRODUCTIVITY:

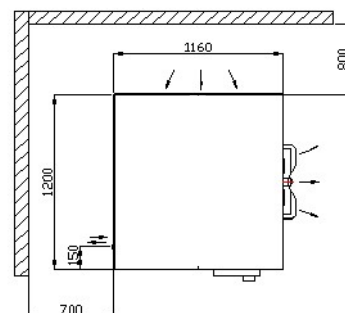
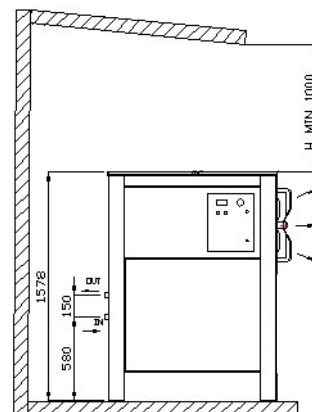
MUSTS CONTROL:	630 HI
WINE STABILIZATION:	75 HI

MAIN COMPONENTS TECHNICAL DATA

COMPONENTS	TECH. DATA	N°
COMPRESSOR	Kw 4	1
FINNED PACKS	900x1260	1
FAN	Ø 500	1
SINGLE CIRCUIT EVAPORATOR	PLATES	1
RICYCLING PUMP	Kw 0,55 + 0,37	2
GLYCOL CONNECTION OUT	Ø 1" 1/4 M	1
GLYCOL CONNECTION IN	Ø 1" 1/4 M	1
INTERNAL STORAGE TANK CAPACITY	LT 160	1
TRANSPORT WEIGHT	220 Kg	-
WORKING WEIGHT	380 Kg	-
SECONDARY PUMP FLOW	7.000LT/H	-
HEAT RECUPERATOR	Kw 3	1



VISUAL EXAMPLE PLC



IN THE EVENT OF "INDOOR" INSTALLATION PLEASE RESPECT THE Minimal h. 1000 mm

The company reserves the right to make changes or modifications to its products without notice and at any time



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