Qualiterme

ECO LINE

CHILLER AND CHILLED WATER SYSTEM

DISCOVER MORE

CUSTOMIZABLE ITEM

Customization for diverse applications, tailored to fulfill the requirements of any industry or critical environment.

ECO LINE - CHILLER AND CHILLED WATER UNIT

This line accommodates capacities ranging from 3,000 to 450,000 kcal/h, featuring advanced compressors and scroll technology. It boasts a robust structure and microchannel condensers designed for R 410a gas. In units equipped with multiple compressors, the refrigeration and control systems are independent, with one system dedicated to each compressor, thereby offering numerous benefits to users.

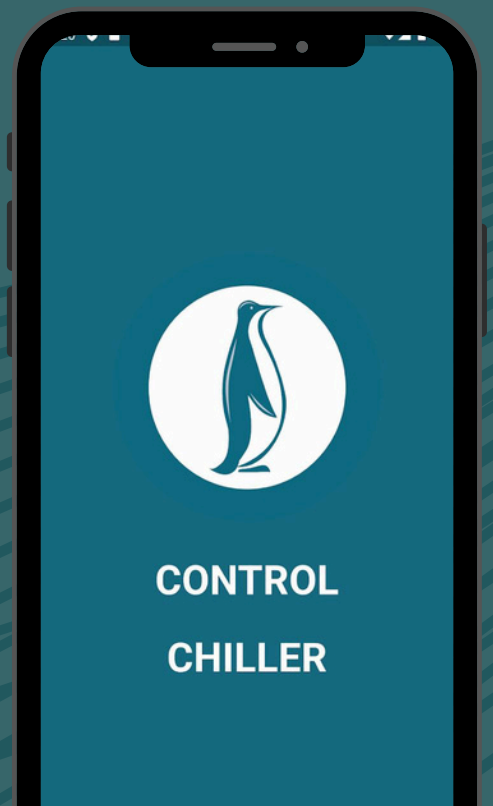
The Eco Line equipment is applicable in the plastics, dairy, brewery, beverage, metalworking, healthcare, supermarket, and various other industries.

EQUIPMENT DISPARITY

- Distinct and autonomous circuits
- Condensers exhibiting superior cooling efficiency
- Plate heat exchanger featuring an expanded surface area for enhanced heat transfer.
- Autonomous controls
- Completely detachable framework, offered in Epoxy, Galvanized, or Stainless Steel.

CONTROLLERS (PLC)

The controllers (PLC) are equipped with analog and digital inputs and outputs, as well as an intuitive touch screen that allows control of essential functions such as the compressor, pump, and fan. They also display temperatures, alarms, and feature an event identifier, as well as activity history storage. All access to settings and data is password-protected, ensuring the security and integrity of the information.



Control Chiller Application

With the Control Chiller app, you can access essential information about the equipment and remotely control functions for production process management.

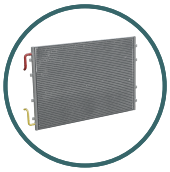
ECO AIR LINE

This cooling system employs forced ventilation to facilitate heat exchange between the condensers (radiators) and the fans. The radiator, constructed from microchannel aluminum, is tasked with condensing the refrigerant gas, thereby delivering high thermal efficiency. To cool the chilled water, the system incorporates a brazed plate heat exchanger, ensuring optimal efficiency in heat transfer.

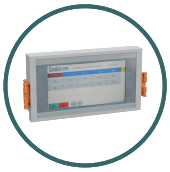
ECO WATER LINE

This cooling system facilitates heat exchange via industrial water, employing either a cooling tower or a shell and tube heat exchanger, thereby ensuring versatility to accommodate diverse cooling requirements. For the purpose of cooling chilled water, the system incorporates a brazed plate heat exchanger, which provides exceptional efficiency in heat transfer.

ITEMS
OF THE EQUIPMENT



CAPACITORS MICROCANAL

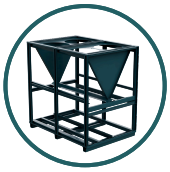


HIM TOUCH

COMPRESSOR SCROLL

MOTOR PUMP

EXCHANGER TO PLATES



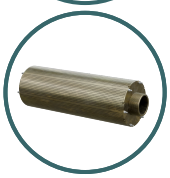
STRUCTURE

PLC CONTROLLER

MOTOR CIRCUIT BREAKERS

CONTACTORAS OF DRIVES

FANS



FILTER

RESERVOIR

TECHNICAL SPECIFICATIONS

SIMPLE ECO AIR LINE WITH 1 COMPRESSOR

Air Condensation — **Calculations performed at working temperature 10°** — **Connections**

Model	Capacity	Three-phase 220V	Three-phase 380V	Three-phase 440V	Single-phase 220V	Compressor Scroll	Water pump	Dimensions Width	Dimensions Length	Dimensions Height	Chilled Water Inlet/Outlet	Abastec.
E001	1000				✓	1xTR	½ CV	450	800	1050	1"	½ "
E002	2000				✓	1X1TR	½ CV	450	800	1050	1"	½ "
E003	3000	✓	✓		✓	1X1TR	½ CV	450	800	1050	1"	½ "
E006	6000	✓	✓	✓	✓	1X2TR	1CV	550	1100	1200	1"	½ "
E009	9000	✓	✓	✓	✓	1X3TR	1CV	850	1200	1200	1"	½ "
E0012	12000	✓	✓	✓		1X4TR	2CV	850	1200	1550	1,½ "	½ "
E0015	15000	✓	✓	✓	✓	1X5TR	2CV	850	1200	1550	1,½ "	½ "
E0022	22000	✓	✓	✓	✓	1X7,5TR	3CV	850	1550	1550	1,½ "	½ "
E0030	30000	✓	✓	✓	✓	1X10TR	3CV	950	1450	1950	1,½ "	½ "
E0045	45000	✓	✓	✓		1X15TR	5CV	950	1600	1950	2"	½ "

DOUBLE ECO AIR LINE WITH 2 COMPRESSORS

Air Condensation — **Calculations performed at working temperature 10°** — **Connections**

Model	Capacity	Three-phase 220V	Three-phase 380V	Three-phase 440V	Single-phase 220V	Compressor Scroll	Water pump	Dimensions Width	Dimensions Length	Dimensions Height	Chilled Water Inlet/Outlet	Abastec.
E030	30000	✓	✓	✓	✓	2X5TR	1X3CV	950	1450	1950	1,½ "	½ "
E045	45000	✓	✓	✓	✓	2X7,5TR	1X5CV	950	1600	1950	2"	½ "
E060	60000	✓	✓	✓	✓	2X10TR	1X5CV	950	1850	1950	2"	½ "
E075	75000	✓	✓	✓		2X11,5TR	7,5CV	950	1850	1950	2"	½ "
E090	90000	✓	✓	✓		2X13TR	1X7,5CV	1300	2400	2300	2,½ "	½ "
E100	100000	✓	✓	✓		2X15TR	1X7,5CV	1300	2400	2300	2,½ "	½ "
E120	120000	✓	✓	✓		2X20TR	1X7,5CV	1500	2550	2300	2,½ "	½ "
E150	150000	✓	✓	✓		2X25TR	1X10CV	1500	2550	2300	2,½ "	½ "

QUADRUPLE ECO AIR LINE WITH 4 COMPRESSORS

Air Condensation — **Calculations performed at working temperature 10°** — **Connections**

Model	Capacity	Three-phase 220V	Three-phase 380V	Three-phase 440V	Single-phase 220V	Compressor Scroll	Water pump	Dimensions Width	Dimensions Length	Dimensions Height	Chilled Water Inlet/Outlet	Abastec.
E120	120000	✓	✓	✓		4X10TR	1X10CV	1500	2800	2250	2,½ "	½ "
E150	150000	✓	✓	✓		4X11,5TR	1X10CV	1500	2800	2250	2,½ "	½ "
E180	180000	✓	✓	✓		4X15TR	1X10CV	2000	2750	2650	2,½ "	½ "
E240	240000	✓	✓	✓		4X20TR	1X15CV	2000	3850	2650	3"	½ "
E300	300000	✓	✓	✓		4X25TR	1X20CV	2000	3850	2650	3"	½ "
E360	360000	✓	✓	✓		4X30TR	1X25CV	2000	4500	2650	4"	½ "
E450	450000	✓	✓	✓		4X40TR	1X30CV	2000	4500	2650	4"	½ "

SIMPLE ECO WATER LINE WITH 1 COMPRESSOR

Water Condensation — **Calculations performed at working temperature 10°** — **Connections**

Model	Capacity	Three-phase 220V	Three-phase 380V	Three-phase 440V	Single-phase 220V	Compressor Scroll	Water pump	Dimensions Width	Dimensions Length	Dimensions Height	Encoder Input/Output	Ice Water	Abastec.
E006	6000	✓	✓	✓		1X2TR	1CV	550	1100	1100	¾"	1"	½"
E009	9000	✓	✓	✓		1X3TR	1CV	550	1100	1100	¾"	1"	½"
E012	12000	✓	✓	✓		1X4TR	2CV	850	1250	1400	1"	1,½"	½"
E015	15000	✓	✓	✓		1X5TR	2CV	850	1250	1400	1"	1,½"	½"
E022	22000	✓	✓	✓		1X7,5TR	3CV	850	1450	1400	1,¼"	1,½"	½"
E030	30000	✓	✓	✓		1X10TR	3CV	950	1500	1750	1,½"	1,½"	½"
E045	45000	✓	✓	✓		1X15TR	5CV	950	1500	1750	2"	2"	½"

DOUBLE ECO WATER LINE WITH 2 COMPRESSORS

Water Condensation — **Calculations performed at working temperature 10°** — **Connections**

Model	Capacity	Three-phase 220V	Three-phase 380V	Three-phase 440V	Single-phase 220V	Compressor Scroll	Water pump	Dimensions Width	Dimensions Length	Dimensions Height	Encoder Input/Output	Ice Water	Abastec.
E030	30000	✓	✓	✓		2X5TR	3CV	950	1450	1750	1"	1,½"	½ "
E045	45000	✓	✓	✓		2X7,5TR	5 CV	950	1500	1750	2"	2"	½ "
E060	60000	✓	✓	✓		2X10TR	5 CV	950	1850	1800	2"	2"	½ "
E075	75000	✓	✓	✓		2X12,5TR	7.5 CV	950	1850	1800	2"	2,½"	½ "
E090	90000	✓	✓	✓		2X15TR	7.5 CV	950	1900	1800	2,½"	2,½"	½ "
E100	100000	✓	✓	✓		2X15TR	7.5 CV	950	1900	1800	2,½"	2,½"	½ "
E120	120000	✓	✓	✓		2X20TR	10CV	1300	2450	2050	2,½"	2,½"	½ "
E150	150000	✓	✓	✓		2X25TR	10CV	1300	2450	2100	2,½"	2,½"	½ "

NOTE: FOR EQUIPMENT ABOVE THESE CAPACITIES, CONSULT THE ENGINEERING DEPARTMENT

We serve Latin and Central America

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RS-239, 500 - São José, Novo Hamburgo - RS/Brazil | www.qualiterme.com.br | (51) 3066.2030 | (51) 99272.8266 | comercial@qualiterme.com.br