

cooling system solutions

products portfolio




EUROKLIMAT

A close-up photograph of a male technician with a beard and safety glasses, wearing a blue t-shirt with the 'EUROKLIMAT' logo. He is wearing green gloves and using a red-handled tool to work on a mechanical component, likely part of a cooling system. The background shows blue horizontal blinds.

“Some things can’t be
mass-produced.”

EUROKLIMAT®
Cooling system Solutions



We believe in a job well done

When Euroklimat was founded in 1963, our mission was simple:
to make the best air-conditioners in the world.

Today we have added more: efficiency maximization, energy
saving and respect for the surrounding environment have become
constant objectives of our everyday work.

With our sophisticated technology, constant innovation and
flexible market approach, we were the first to develop the widest
range of chillers with natural gas, R290.

Our mission for the future is to become a market leader in the
construction of R290 chillers.

Michele Bedin
CEO EUROKLIMAT



Our plants and quality management

Over 50 years of business

Since we set up business in 1963, the company's head offices have always been in Italy, near Milan. Today, our aim is to be a market leader in chillers with natural refrigerant (propane): by doing this, we are helping the industry to become more efficient, preserving natural resources and protecting the environment.

Organization in Italy

At our Italian plant spread over an area of 6,000 square metres, with a work force of 60 people, Euroklimat designs and produces refrigeration units, heat pumps and precision air conditioners that can be used both in industrial processes and traditional comfort applications.

Infinite quality

Euroklimat firmly believes that Customer Satisfaction is an indispensable factor for success. A priority objective to achieve this result is the constant improvement of our products, services and the relative production processes.

This objective means involving all of the company's resources with planned, systematic activities for Quality; for this reason, our system complies with the international standard UNI EN ISO 9001:2015.

Organization in China

Our plant covers a surface of approximately 100,000 square metres, with over 1,000 people and includes a large test chamber and a sophisticated R&D laboratory, in addition to real production departments, where the performance of the units is measured before being placed on the market.



**COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =**



Factory Italy • Sizzano



Factory China • Huangjiang, Dongguan, Guangdong







The product ranges and applications



Natural Cooling R290

Cooling units designed especially for all activities in which it is important to keep distribution products at a controlled temperature, such as storage areas or refrigerated goods in supermarkets. Euroklimat's machines are able to guarantee an extremely high level of reliability and can reach negative temperatures on a medium level (-8 °C).



Precision Air Conditioning

Equipment particularly suited to "controlling" civil and/or technological environments. From air purity to internal thermo-hygrometric conditions, the different needs are treated specifically and overcome with flexible, easy-to-apply solutions, always using environmentally-friendly components.



Process Cooling

Machines for cooling or heating fluids designed with the skill and experience of those who have spent years working in close contact with operational problems. The "process" workings, in their most diverse forms of application, find the perfect solution to all problems in this section.



Comfort Cooling

Refrigeration units and heat pumps designed specifically for the sector of air conditioning. The vast number of configurations, set ups and accessories enable this product range to be able to satisfy all users' needs, with particular focus on energy-saving and limited noise emissions.



Market leader in R290 chillers

Here's why



It is natural

Propane is an aliphatic hydrocarbon that belongs to the series of paraffins. It is obtained by fractional distillation from oil and natural gas.

At ambient pressure and temperature, it is a colourless, odourless gas that is nonetheless easy to liquefy; it is used as fuel for cars, as well as for domestic and industrial purposes, besides supplying camping lamps and stoves.



It is ecological

Global Warming Potential (GWP) = 3



It is efficient

EER: + 12%

compared to an equivalent R410A machine.

Wide range of uses:

- HVAC
- Process Cooling
- Medium Temperature



It is safe

The technical measures Euroklimat adopts for its chillers, in keeping with current regulations and directives, together with its ZERO LEAKS policy, mean it is possible to obtain extremely high levels of safety and guarantee maximum reliability in all working conditions.



Quality, performance and reliability second to none

ATEX Compressors



Guarantee maximum safety
in all working conditions.

ZERO LEAK Design

A careful study of the
joints and pipes makes
it possible to eliminate
the risk of refrigerant
leaks and guarantees the
highest level of safety.



Insulated electric panel

The special construction of the casing and electric wiring
developed taking the appropriate measures mean the unit is
fully protected in the event of a refrigerant leak.

EcoDesign READY

The performance of each unit complies with
the European Directive 2009/125/EU, the
Commission Regulation (EU) 2016/2281 and
with the Harmonized Directives.

Natural Cooling references

Pharmaceutical industry



Roche Diagnostic Mannheim | Germany

Regional Hospital St. Pölten | Austria

Danish Technological Institute | Taastrup

Mass retailing



Metro | Padova

Carrefour Galati | Romania

Waitrose | England

Food industry



Nestlé | France

Del Monte Foods | England

The Coca Cola Company | Brazil

Energy Transport



Metro Copenhagen | Denmark

Mekanotjänst Järvsö AB | Sweden

E.ON Kernkraft GmbH | Germany

Cold stores



John Lewis Birmingham | England

Marathon Logistic Kostrzyn | Poland

Carrefour Mega Mall | Bucharest

Natural Cooling - Product range

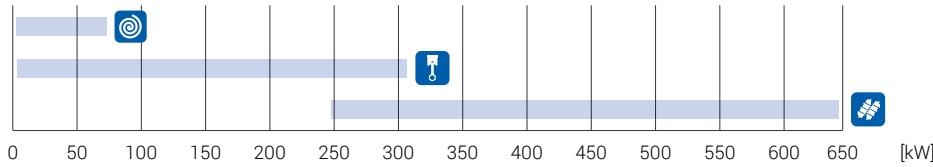


R290 Refrigerant
R290 | GWP=3



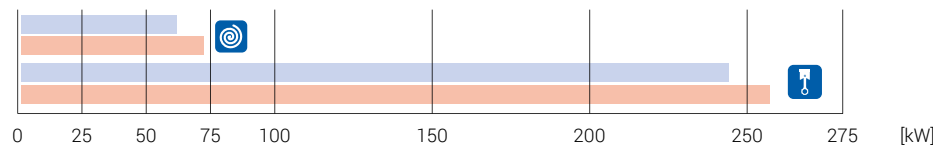
Chillers for COMFORT and PROCESS COOLING application

air / water



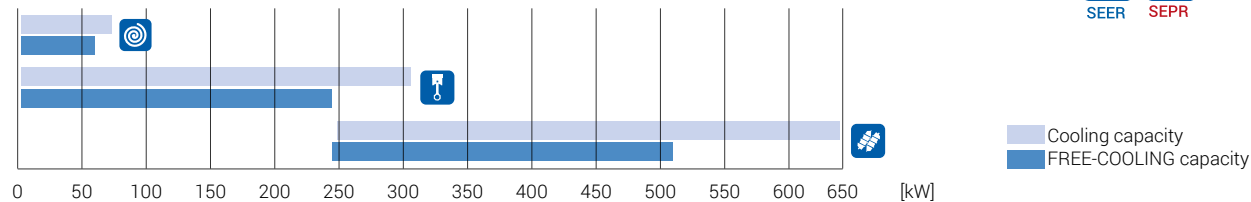
Chillers and Heat pumps

air / water



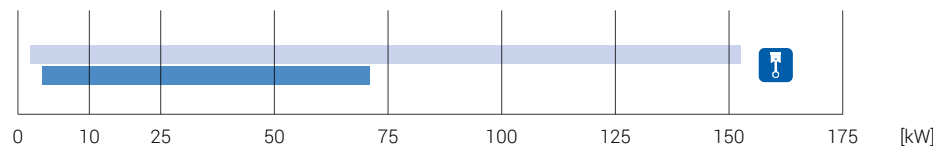
Chillers with FREE-COOLING system

air / water



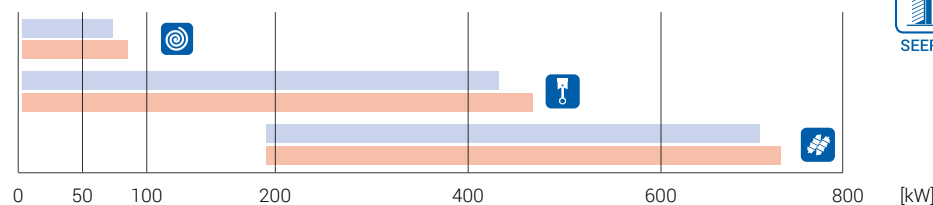
MEDIUM and LOW TEMPERATURE Chillers

air / water



Chillers and Heat pumps

water / water



Euroklimat Process Cooling Chillers



ErP AC/EC FANS

Double configuration available: axial fan or plug fan for internal installation with ducted system.



Multiple configurations

The various configurations and the vast number of available accessories make these units virtually suitable for all applications and every kind of installation.



Integrata (I) Solution

Integrata (I) solution already mounts most of the water circuit components in the unit thus making extremely easy and simple the connection to the user system.

Moreover, the pump control equipment is fitted inside the electrical board of the unit and the microprocessor control manages the pump starting, timing and all the safety devices of the whole system cutting automatically out the refrigerant circuit when necessary.



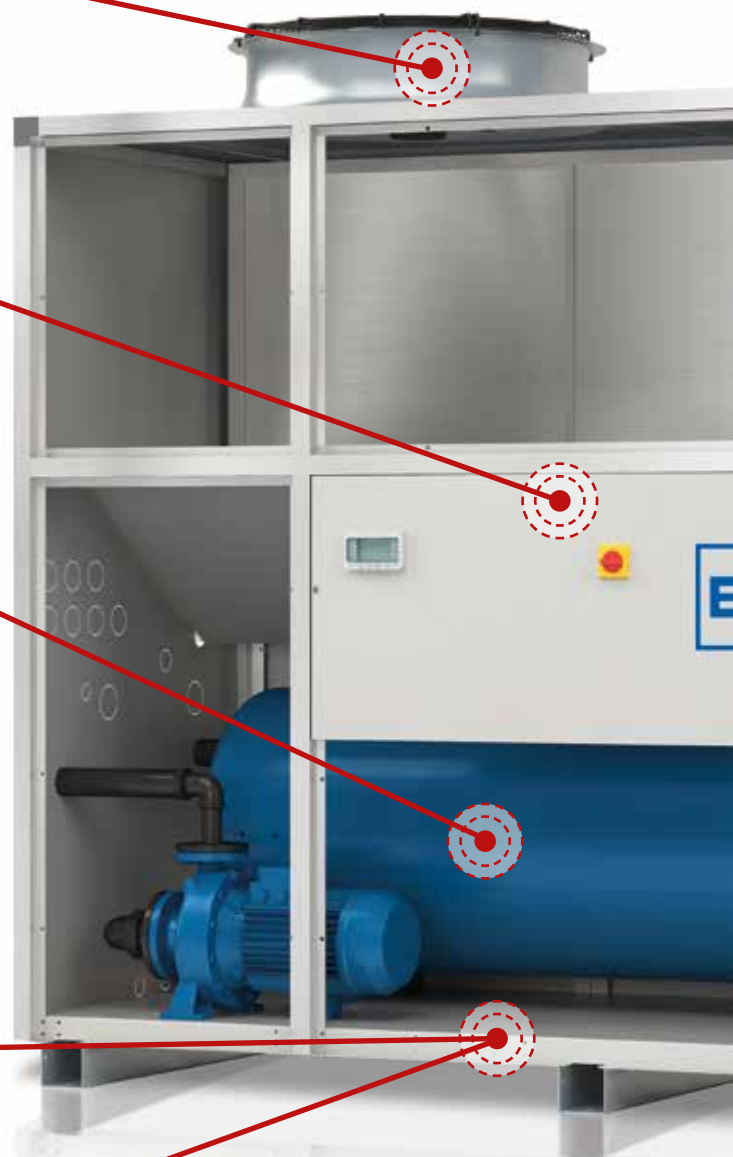
Maintenance simplicity

The arrangement of the components has been studied in detail in order to allow any operation of maintenance in the simplest and safest way.



Compact footprint

The size of the units has been optimized so as to minimize the space occupied, ensuring an easy accessibility to all the components.



Reliable and flexible solutions for the industry of tomorrow



Large surface heat exchangers

Condensers made by finned coil with copper pipes or with Microchannel technology. Protection treatments for heat exchangers available, able to withstand in harsh conditions and in the most aggressive environments.



Free-cooling version available

The use of free-cooling mode provides impressive energy savings and is particularly suitable for industrial processes where the production of chilled water is required all through the year.



Latest generation Compressors for precise control

- Multiple types of compressor available:
- Hermetic scroll (single, tandem and trio solutions)
 - Semi-hermetic piston (also with capacity control head)
 - Step-less compact screw
 - Turbocor: oil free double stage centrifugal compressors.



Solid and resistant structures

Structures specifically designed and built to guarantee total resistance to atmospheric agents and corrosion. Designed specifically for easy handling of the unit that allows a simple and quick installation.



Process Cooling references

Plastic and rubber



SevenUp Bottling Company | Nigeria

Diter Cuautitlàn Izcalli | Mexico

DS Smith Kayzersberg | Austria

Chemical oil & gas



ENI | Divisione Tecnomare

Saint Gobain | Savigliano

Tengizchevroil | Republic of Kazakhstan

Laboratories



Electrolux | Hungary

Glaxo Smith Kline | Verona

Holland Colours | Holland

Beverages



Coca Cola Al Ahlia Uae | Dubai

Pepsico | Vietnam

Danone Hayat | Turkey

Metalworking



Arvid Svenssons Metallåtervinning | Sweden

TyssenKrupp

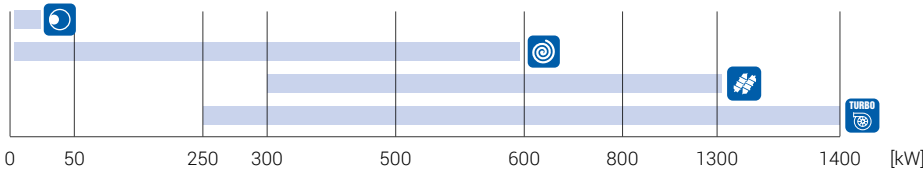
Sarok Italia



R410A R134a R513A HFO 1234ze New low GWP refrigerants

Chillers for PROCESS COOLING application

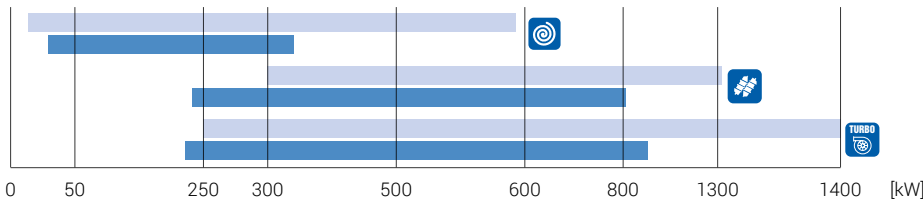
air / water



Cooling capacity

Chillers with FREE-COOLING system

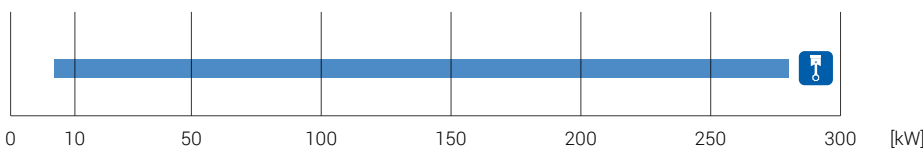
air / water



Cooling capacity
FREE-COOLING capacity

LOW TEMPERATURE Chillers

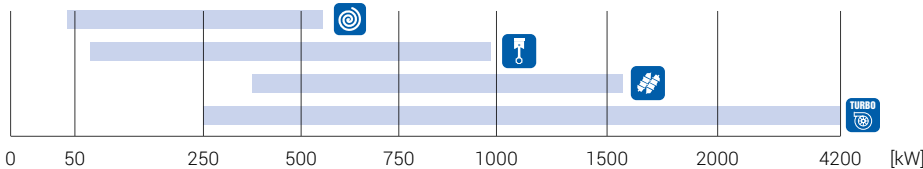
air / water



Cooling capacity LT

Chillers for PROCESS COOLING application

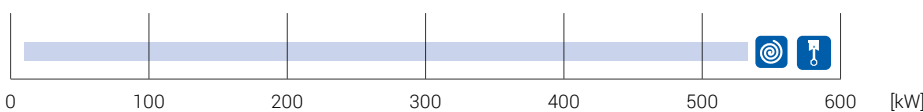
water / water



Cooling capacity

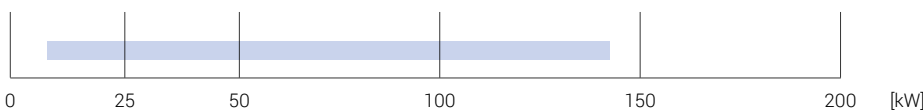
Condenserless water chillers

cooling only



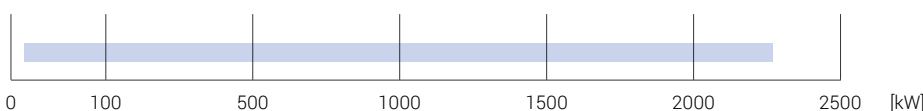
Cooling capacity

Air cooler condensers



Nominal capacity

Dry coolers



Nominal capacity

All the technology available for CRAC and CRAH

EC Fans

Up to **50%** energy saving compared to traditional motors.

Electronic Expansion Valve



The use of electronic valves means optimisation of the cooling circuit in all working conditions and consequently a significant saving in energy.



Modulating humidifiers

Immersed electrode humidifiers with a modulating capacity of the power offer precise humidity control.

Advanced control

Compatible with all major communication protocols for complete interfacing with modern supervision systems.



FREE-COOLING BLDC Compressor

The solutions available for energy saving mean operating costs can be reduced by over **65%** compared to traditional systems.





High precision also in the design

100+ configurations

Versions with air flow upwards and downwards, direct expansion working, water or air condensation and chilled-water battery, in Dual-Cooling or Free-Cooling mode.

Maximum accessibility

All components are positioned rationally: in this way, the units don't require any particular clear spaces. All unit maintenance can be carried out from the front. If necessary, the panels can easily be removed, facilitating interventions by qualified personnel.



50+ accessories and flexibility

The long list of accessories available covers all market needs, so you can always find the most appropriate solution for your application. Euroklimat's design flexibility also means it is possible to satisfy the most particular needs, such as supplies in assembly kits for the smallest of spaces.

Reduced Footprint

The design of the new Data Centers requires a reduction in the spaces for the conditioning units. This is why Euroklimat has dedicated particular attention to the design of the structure and the layout of the internal components, with the aim of reducing the unit's footprint as much as possible, thus offering a particularly interesting kW/m² ratio.

Precision Air Conditioning references

Data Center



German Space Operations Center | Germany

IBM | Austria

DHL | Milan

**Medium & Low
density servers**



Parlament | Austria

Finnish Army | Finland

Business Center Preo8 | Russia

Laboratories



Danish Technological Institute | Denmark

Angelantoni Group - Div. ATT & ALS | Italy

Kenosistec | Milan

Metrology labs



Fca | Cassino

BMW | Munich

PSA Peugeot Citroën | France

**Ambient
air-conditioning**



Intesa San Paolo | Milan

Aspesi | Milan

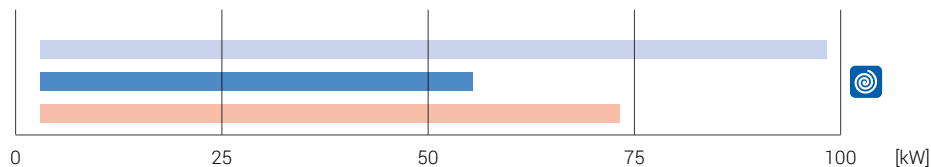
Unicredit Bank | Milan




Precision Air Conditioning - Product range



Direct expansion/remote condenser

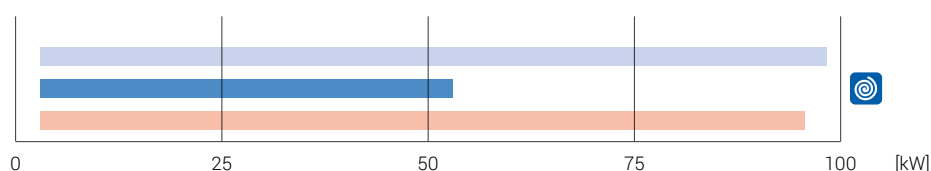
Upflow / Downflow






 Cooling capacity
 DUAL-COOLING capacity
 Heating capacity

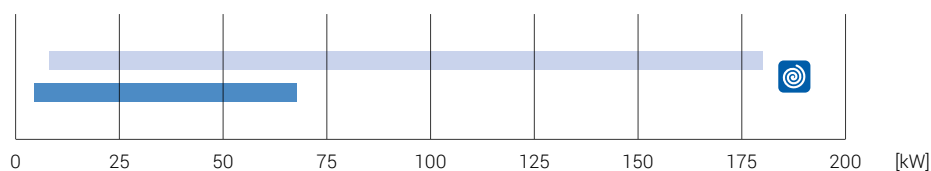
Direct expansion/water condenser



Upflow / Downflow



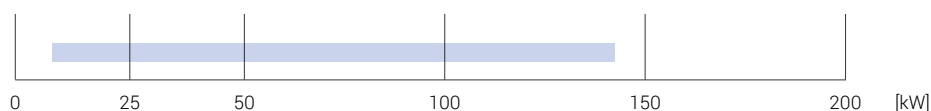
 Cooling capacity
 FREE-COOLING capacity
 Heating capacity


Chilled water units



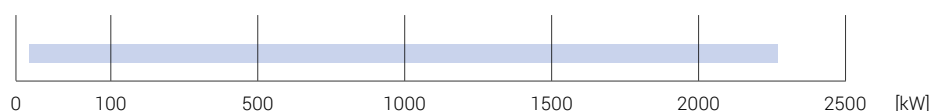
 Cooling capacity
 DUAL-POWER capacity


Air cooler condensers



 Nominal capacity

Dry coolers



 Nominal capacity

Euroklimat

Chillers and heat pumps



ErP AC/EC FANS

Double configuration available: axial fan or plug fan for internal installation with ducted system.



LN - Low Noise version

The LN version allows to reduce the noise produced by the unit, in order to meet the noise requirements related to the place of installation.



Integrata (I) Solution

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Moreover, the pump control equipment is fitted inside the electrical board of the unit and the microprocessor control manages the pump starting, timing and all the safety devices of the whole system cutting automatically out the refrigerant circuit when necessary.



Maintenance simplicity

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Maximum energy savings for air conditioning systems



Large surface heat exchangers

Condensers made by finned coil with copper pipes or with Microchannel technology. Protection treatments for heat exchangers available, able to withstand in harsh conditions and in the most aggressive environments.

Free-cooling version available

The use of free-cooling mode provides impressive energy savings and is particularly suitable for industrial processes where the production of chilled water is required all through the year.

Latest generation Compressors for precise control

Multiple types of compressor available:

- Hermetic scroll (single, tandem and trio solutions)
- Semi-hermetic piston (also with capacity control head)
- Step-less compact screw
- Turbocor: oil free double stage centrifugal compressors.

Solid and resistant structures

Structures specifically designed and built to guarantee total resistance to atmospheric agents and corrosion. Designed specifically for easy handling of the unit that allows a simple and quick installation.



Comfort Cooling references

Offices and business centres



Comune di Milano

Müller | Budapest

Porsche | Salzburg

Cinemas and theatres



The Rimsky-Korsakov | St. Petersburg

Kuopio Theatre | Finland

Maly Theatre | Moscow

Shopping centres



Esselunga

Supermercati il Gigante

Adamant Mall | St. Petersburg

Hospitals and clinics



Ospedale Maggiore | Milan

Amiralam Hospital | Teheran

SSRN Regional Hospital | Pamplermousses

Hotels



Holiday Inn | Ufa City

Topazz Hotel | Vienna

Hotelli Alavus | Finland

Comfort Cooling - Product range

R410A

R134a

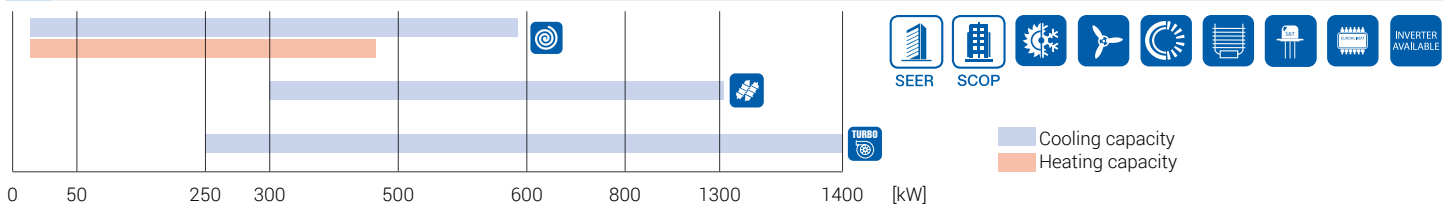
R513A

HFO 1234ze

New low GWP refrigerants

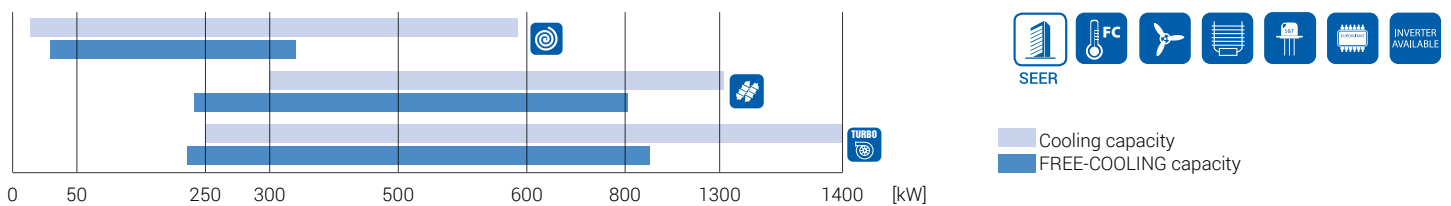
Chillers and Heat pumps

air / water



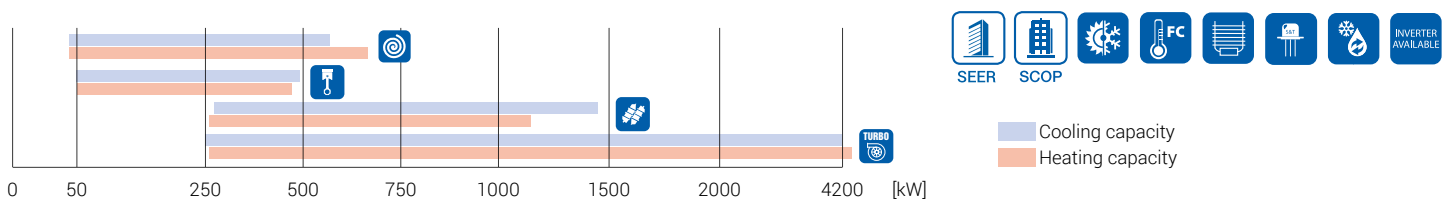
Chillers with FREE-COOLING system

air / water



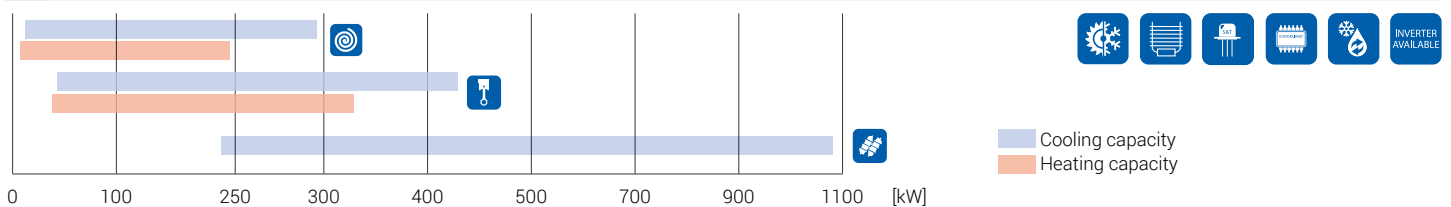
Chillers and Heat pumps

water / water

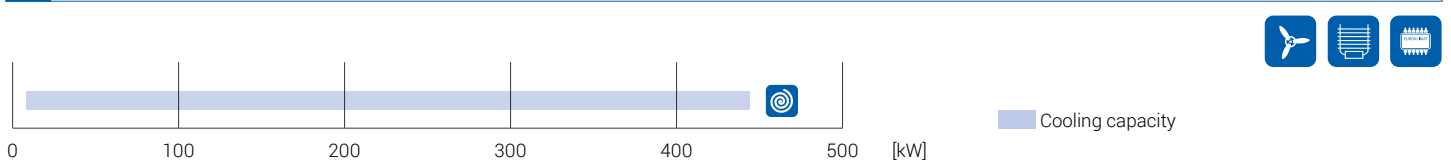


Condenserless water chillers

cooling only / heat pump



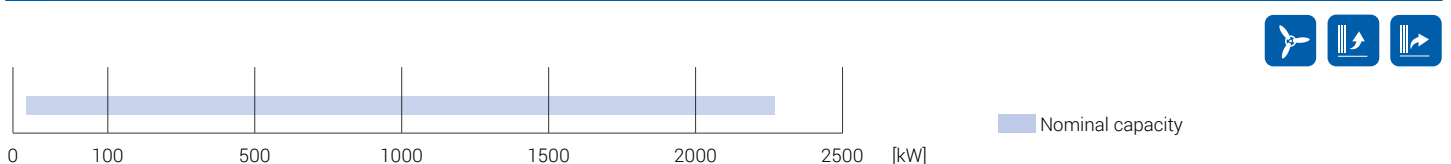
Condensing units



Air cooler condensers



Dry coolers





The information obtained from the international market is sent to the head office, and constitutes the basis for the product and organisation's constant growth and improvement.



Organisation and experience

Marketing

Since the company was set up in 1963, Euroklimat has been searching for new products using the latest technology, with maximum focus on the market demands and requests, aimed at user satisfaction.

Sales network

Besides guaranteeing a well-established presence in several countries, internal market representatives and distributors or branches abroad collect market feedback and send it to the company; this lies at the root of the product or organisation's constant growth and improvement.

Precision design

All parts of the equipment are designed internally, guaranteeing the necessary competence in terms of both refrigeration-mechanics and electrics-electronics, while respecting the applicable regulations in the various countries of destination.

A scrupulous, sophisticated quality procedure controls the conformity of the design with the purchased components and product development.

Support and assistance



Webservice² - web portal 24/7

Planned and designed for the specific competences, “webservice” is a web portal that enables customers or support centres to access the detailed documentation for each single machine: the construction drawing, electric diagram, list of spare parts, order confirmation, instructions manual, declaration of conformity and much more.

The information is consequently always available and up-to-date, also when you are physically at the site of installation.

Thanks to the new features of WebService², it is now possible to check in real time the availability of spare parts for each serial number, simply by accessing the service with your own web credentials.



wEKool - Product selection software

The new wEKool selection software is able to search and select, within the wide range of Propane machines produced by Euroklimat, the most suitable solution to meet the specific request.

For more information visit our website www.euroklimat.it.

After-sales service

Our organisation includes an office dedicated to after-sales technical support that is able to offer a great number of services, such as:

- On-line technical service
- Spare parts service
- Technical intervention in situ
- Scheduled maintenance service
- Customer training courses
- External support centre training courses





















Spare parts warehouse

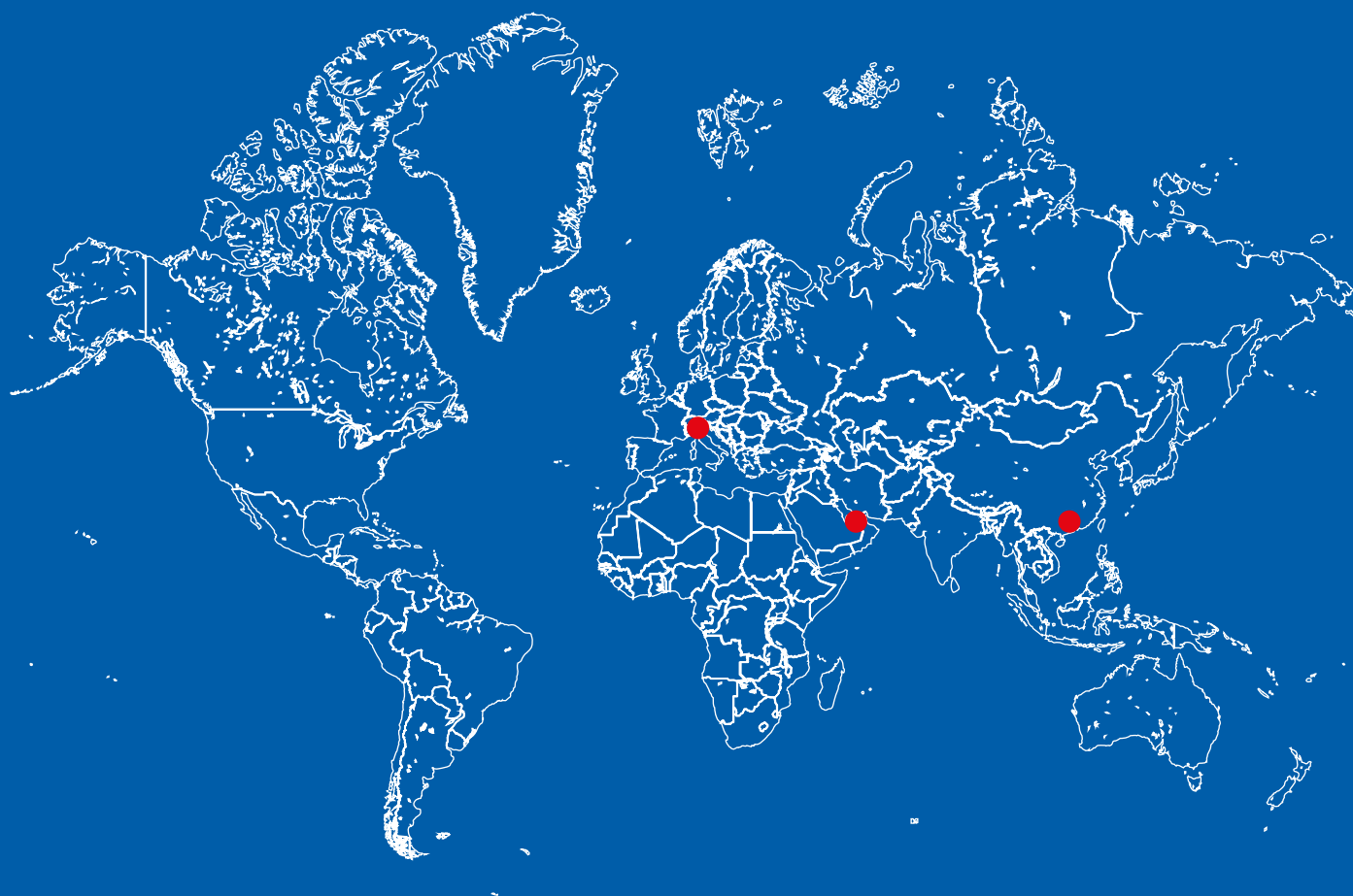
The internal warehouse is divided into a central warehouse, which supplies the assembly lines, and the spare parts warehouse that can guarantee almost immediate availability of all “critical” components.





ICONS LEGEND

	Hermetic rotary compressor		Scroll compressor		Semi-hermetic piston compressor		Screw compressor		Centrifugal compressor Turbocor		Inverter available
	Axial fan		Plug-Fan		Braze plate heat exchanger		Shell&Tube exchanger		NoFrost evaporator		FREE-COOLING
	Heat pump version		Water reversible heat pump		Medium temperature (-8°C)		Low temperature (-25°C)		Vertical airflow		Horizontal airflow
	"Tecno" solutions		"Comfort" Solution								



The data are indicative and not binding. Euroklimat reserves the right to make changes at any time without notice.



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HYDRO
CARBONS 21

green
cooling initiative