

cooling system solutions for **Mid-East**



EUROKLIMAT
Cooling System Solutions

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 focused on working on a piece of equipment, possibly a refrigeration unit, using a red-handled tool. The background shows a window with horizontal blinds. A semi-transparent grey box with white text is overlaid on the left side of the image.

“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 are in pursuit of much more: maximum efficiency,
energy conservation and sustainability have become key
objectives of our everyday work.

With sophisticated technology, constant innovation and flexible
market approach, we were pioneers in developing the widest
range of chillers with natural gas, R290.

We aim to become the market leader in the development of R290
chillers in the near future.

Michele Bedin
CEO EUROKLIMAT



Our plants and quality management

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

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): in doing this, we contribute to the industry become more efficient, sustainable and eco-friendly.

Organization in Italy

At our Italian plant spread over an area of 9,000 square metres, with a work force of 100 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.

Uncompromising Quality

Euroklimat firmly believes that Customer Satisfaction is an indispensable factor for success. In striving to reach this goal we are committed to the constant improvement of our project range, services and innovative production processes. The company's resources are utilized to the maximum with planned, systematic activities which guarantee Quality. For this reason, our system complies with the international standard UNI EN ISO 9001:2015.

Organization in China

Our plant covers approximately 70,000 square metres, with over 750 employees. It 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.



EK



Siziano - Italy
Siziano - PV



Siziano - Italy
Siziano - PV



Factory China
Huangjiang, Dongguan, Guangdong



The product ranges and applications



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 energysaving and limited noise emissions.



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.



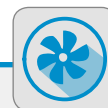
Natural Cooling

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) and on a low level (-25 °C).



Fan Coil Units

Ceiling concealed ducted A series Fan Coil Units are developed by Euroklimat as the solution for Horizontal Basic Ceiling Recessed type installation specifically with attention to meet the intense requirements as applicable to this high segment. Based on accomplished know-how the product has been advanced with much attention to conform to applications of both High delta temperature (such as district cooling or heating) and Standard delta temperature.



Air Handling Units

The EKDM Air Handling Units have cutting-edge manufacturing techniques with design & production forbearance. The series comprises advanced Units & offers commercial & industrial designers, installers & end-users maximum flexibility of choice with the right configuration that satisfies specific needs & applications



Comfort Cooling references

Offices and business centres



Comune di Milano

Müller | Budapest

Porsche | Salzburg

Cinemas and theatres



The Rimsky-Korsakov | St. Pietroburgo

Kuopio Theatre | Finland

Maly Theatre | Moscow

Shopping centres



Esselunga

Supermercati il Gigante

Adamant Mall | St. Pietroburgo

Hospitals and clinics



Ospedale Maggiore | Milan

Amiralam Hospital | Teheran

SSRN Regional Hospital | Pamplermousses

Hotels



Holiday Inn | Ufa City

Topazz Hotel | Vienna

Hotelli Alavus | Finland



Market demands



Euroklimat's responses

Energy saving

Use of the best technology available

Competitive costs

Precision design and production without waste

Customisation

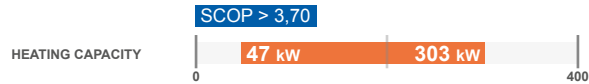
Dedicated systems for each design

RAK.E - RAK.E/PC Chillers and Heat pumps

air / water | axial fans



50C1 ↔ 300C4



1802V ↔ 3202V



3602V ↔ 6002V

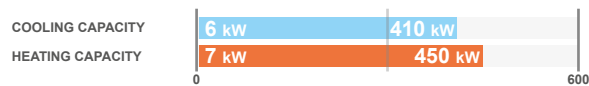


RAK.C - RAK.C/PC Chillers and Heat pumps

air / water | "Plug Fan" EC fans



01C1 ↔ 160C4



RAK.W - RAK.W/PC Chillers and Heat pumps

water / water



01C1 ↔ 240C6

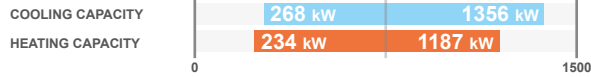


RAK.W - RAK.W/PC Chillers and Heat pumps

water / water



1402V ↔ 5002V

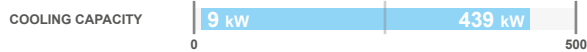


UMK.E Condensing units

axial fans



3C1 ↔ 160C4



CTK.E - CTK.C Air cooler condensers

axial fans and "Plug Fan" EC fans



0040D ↔ 0450D

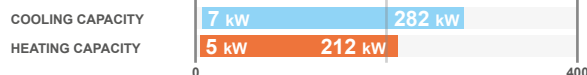


RAK.A - RAK.A/PC Condenserless water chillers

cooling only / heat pump



01C1 ↔ 80C2



1002V ↔ 480 2V



Precision Air Conditioning references

Data Centre



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

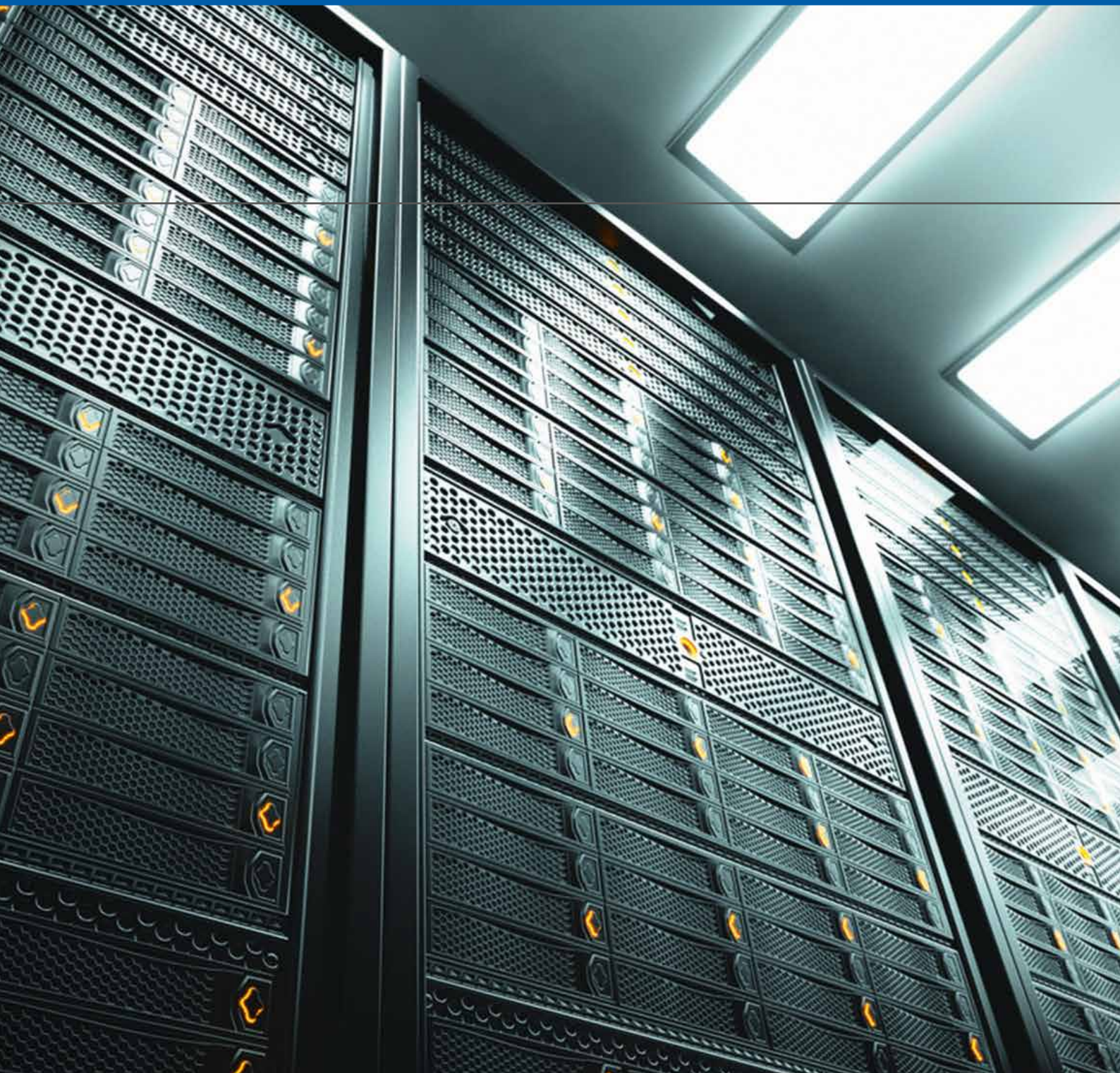
Ambient air-conditioning



Intesa San Paolo | Milan

Aspesi | Milan

Unicredit Bank | Milan



Market demands



Euroklimat's responses

Elevated performance

Latest-generation technology

Reduced space

Optimised design

Precision control

Advanced electronics

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.



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.

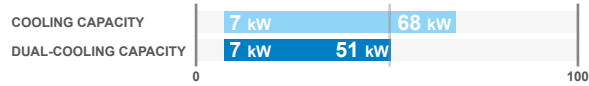
50+ accessories and flexibility

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.

BXK - T/EC Direct expansion/remote condenser



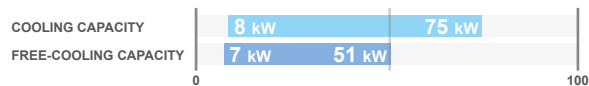
As08 ↔ F061 2E



AXK - T/EC Direct expansion/water condenser



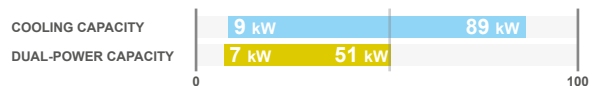
As07 ↔ F069 2E



CWK - T/EC Chilled water units



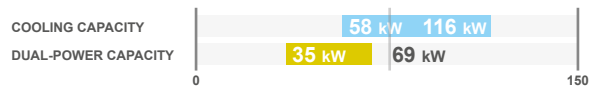
As09 1W ↔ F090 1W



XWK - T/EC Chilled water units



C058 1W ↔ F0116 1W

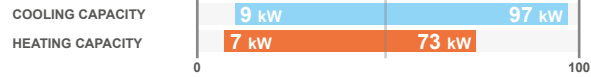


COMFORT | COOLING ONLY | HEAT PUMP solution

BXK - K Direct expansion/remote condenser



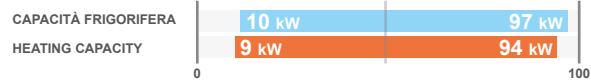
As08 1E ↔ F061 2E



AXK - K Direct expansion/water condenser



As09 1E ↔ F096 2E



CWK - K Chilled water units



As09 1W ↔ F090 1W



CTK.E - CTK.C Air cooler condensers

axial fans and "Plug Fan" EC fans



0040D ↔ 0450D



Process Cooling references

Plastic and rubber



SevenUp Bottling Company | Nigeria

Diter Cuautitlàn Izcalli | Mexico

DS Smith Kaysersberg | 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



Market demands

Elevated reliability

Easy maintenance

Systems able to offer an advantage in terms of productivity



Euroklimat's responses

Quality assembly and components

Simplified design

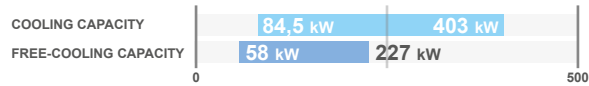
Machines dedicated to the specific application

EKE/FC Chillers with FREE-COOLING system

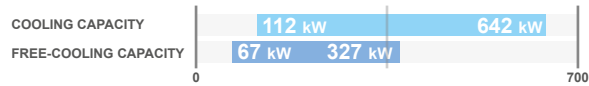
air / water | axial fans



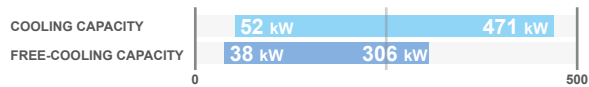
302S ↔ 1602S



802V ↔ 2802V



172C2 ↔ 160C4



EKW/FC Chillers with FREE-COOLING system

water / water



05C1 ↔ 160C4



EKE/LT LOW TEMPERATURE Chillers

air / water | axial fans



20 ↔ 1602

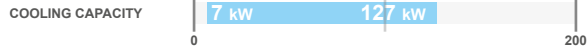


EKC/LT LOW TEMPERATURE Chillers

air / water | "Plug Fan" EC fans



20 ↔ 702



EKW/LT LOW TEMPERATURE Chillers

water / water



20 ↔ 702

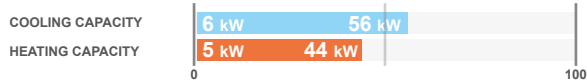


EKE - EKE/PC Chillers and Heat pumps

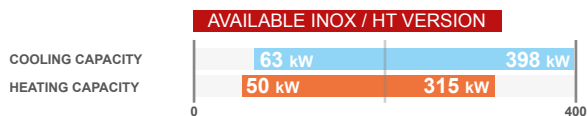
air / water | axial fans



10 ↔ 201



251 ↔ 1402



EKC - EKC/PC Chillers and Heat pumps

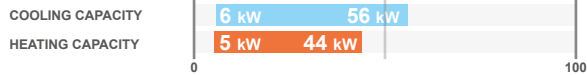
air / water | "Plug Fan" EC fans



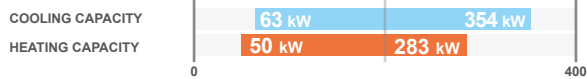
10 ↔ 201



AVAILABLE INOX / HT VERSION



251 ↔ 1402

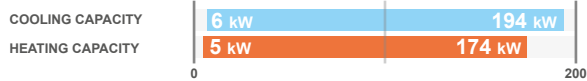


EKW - EKW/PC Chillers and Heat pumps

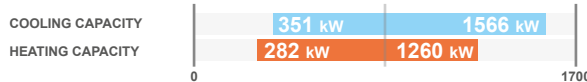
water / water



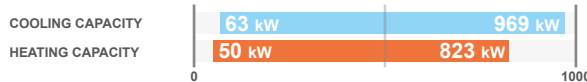
10 ↔ 201



1002V ↔ 4802V



0151S ↔ 2804S

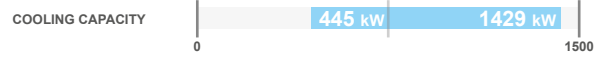


EKE Chillers

air / water | axial fans



1802V ↔ 6002V

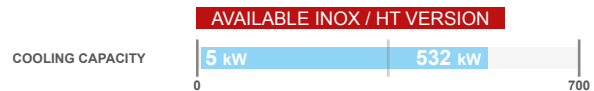


EKA Condenserless water chillers

cooling only



10 ↔ 1602



CTK.E - CTK.C Air cooler condensers

axial fans and "Plug Fan" EC fans



0040 D ↔ 0450 D



WTK.E Dry coolers

axial fans



20 ↔ 1602



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

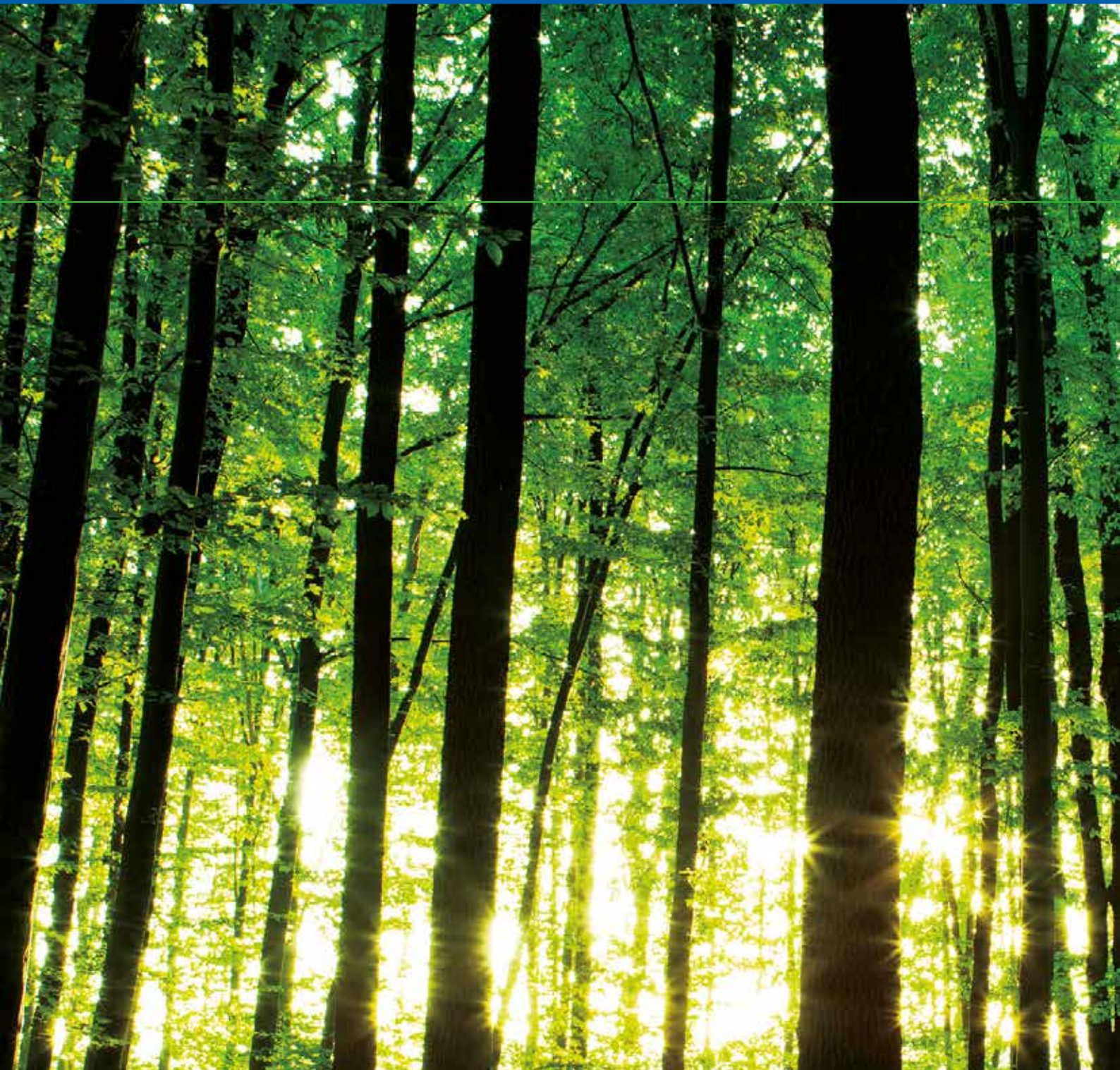
Cold stores




John Lewis Birmingham | England

Marathon Logistic Kostrzyn | Poland

Carrefour Mega Mall | Bucharest



 Market demands

 Euroklimat's responses

Safety

DNV certification

Energy efficiency

Optimisation in the choice of components

100% environmentally-friendly

Machines with natural refrigerant

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
- Low 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 EU 2015/1095 READY

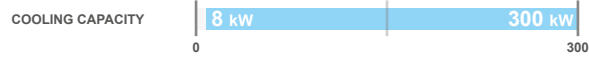
The performance of each unit
complies with the European Directive
"EcoDesign" – EU 2015/1095.

RKO.E Chillers for COMFORT APPLICATION

air / water | axial fans



21S ↔ 1602S



1402V ↔ 4203V



EKO.E Chillers for PROCESS COOLING APPLICATION

air / water | axial fans



21S ↔ 1602S



1402V ↔ 4203V

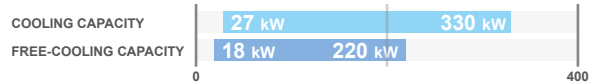


RKO.E/FC Chillers with FREE-COOLING system

air / water | axial fans



121S ↔ 1602S

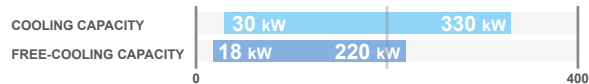


EKO.E/FC Chillers with FREE-COOLING system

air / water | axial fans



121S ↔ 1602S

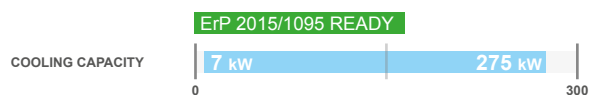


EKO.E/MT MEDIUM TEMPERATURE Chillers

air / water | axial fans



20S ↔ 1602S

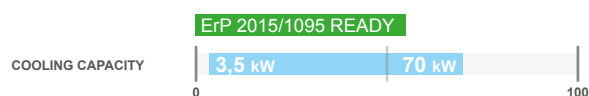


EKO.E/LT LOW TEMPERATURE Chillers


air / water | EC axial fans



20S ↔ 1602S





 **Market demands**

 **Euroklimat's responses**

Energy saving

Use of the best technology available

Competitive costs

Precision design and production without waste

Customisation

Dedicated systems for each design

EKCW - DA

1802V ↔ 6002V



EKCW-W High Wall Cabinet

1802V ↔ 6002V



EKCW-DH Double Skin

10 ↔ 1602



EKCW - E Ceiling Mounted

10 ↔ 1602



EKSW High Static

0040 D ↔ 0450 D



EKCW-KM Chilled Water Cassette

0040 D ↔ 0450 D


























EKCW-DC High-efficiency EC Motor

20 ↔ 1602



ICONS LEGEND

 Refrigerant R290 GWP=3	 Refrigerant R407C GWP=1.774	 Refrigerant R134a GWP=1.430	 Refrigerant R410A GWP=2.088	 Refrigerant R404A GWP=3.922	
 Semi-hermetic piston compressor	 FREE-COOLING	 Axial fan	 Scroll compressor	 Medium temperature (-8°C)	 Low temperature (-25°C)
 Plug-Fan	 Heat pump version	 Screw compressor	 Water reversible heat pump	 Inverter available	 Brazed plate heat exchanger
 NoFrost evaporator	 Shell&Tube exchanger	 Vertical airflow	 Horizontal airflow	 "Tecno" solutions	 "Comfort" Solution



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

Webservice – web portal 24/7

Planned and designed for the specific competences, “web-service” 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.

Eurokey – Product selection software

In Euroklimat’s vast product range, this programme can search for, select and offer the appliance required to satisfy all needs.

The endless options are extremely flexible: from silenced machines to heat recovery, from the simplest calculation with nominal conditions to more complex dimensioning ascribing the specific values of use, one click is all it takes to access clear, analytical answers.

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:

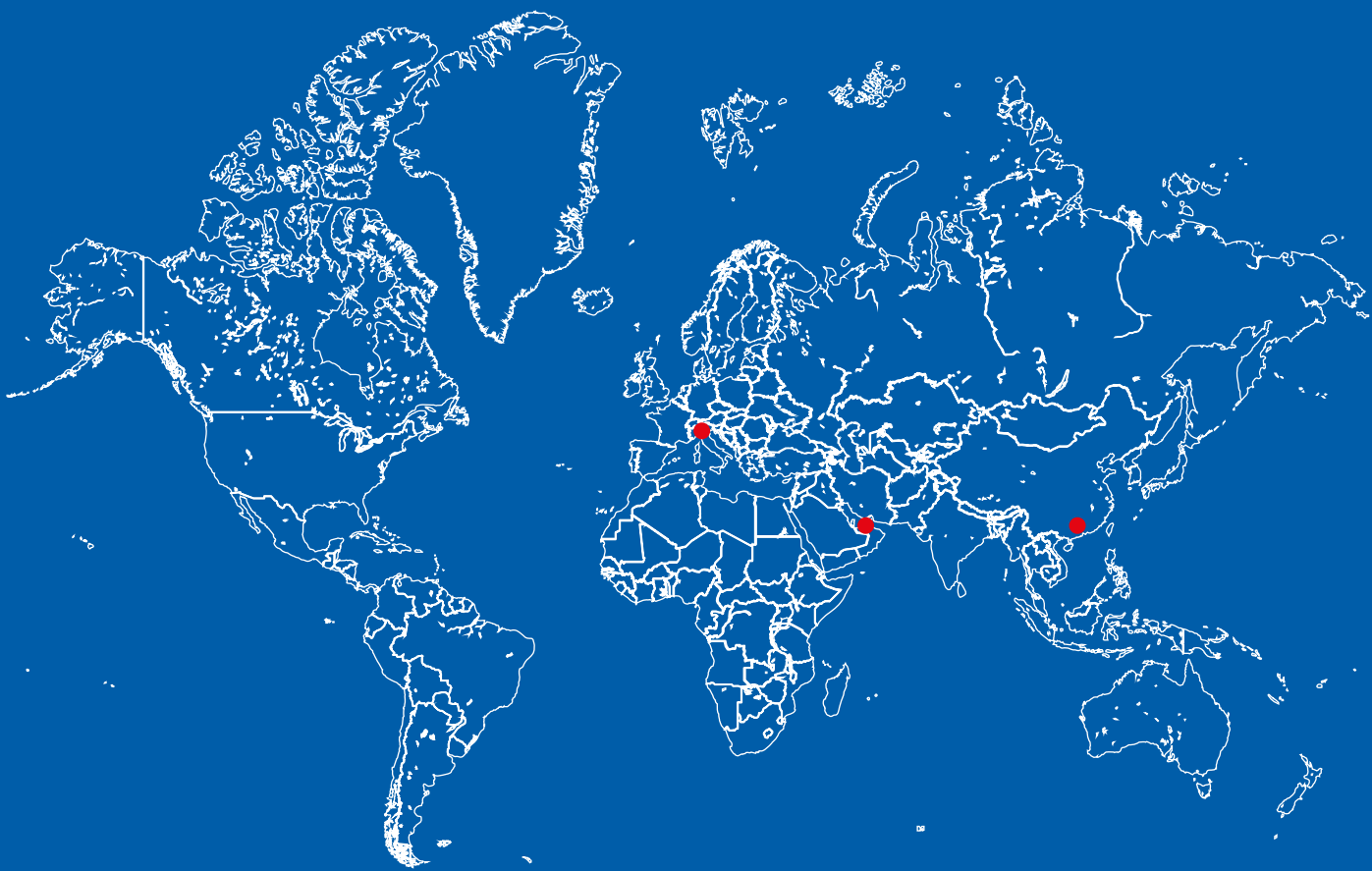
- On-line technical service
- Spare parts service
- Technical intervention in situ
- Scheduled maintenance service
- Customer training courses
- External support centre training courses

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.







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



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