E-solutions

THE COOLEST
SOLUTIONS YOU NEED

EURO CHILLER®
INTERNATIONAL COOLING

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THE IMPORTANCE OF COOLING IN PLASTICS PROCESSES

The design of the cooling system is very important in plastics processes. Since the cooling time accounts for about **40% ~ 60% of the whole molding cycle,** the design of a **good cooling system** can greatly:

SHORTEN
THE MOLDING CYCLE TIME

INCREASE
THE PRODUCTION RATE

REDUCE
COSTS

THE FUNDAMENTALS
TO DETERMINE THE BEST COOLING SYSTEM TO YOUR NEEDS

1. **Know the PROCESS:** Knowledge is the base, as **every process has its own needs.** If you know the process, you cool it and get the best from your production.

2. **Know the APPLICATION: Pressures, volumes, ambient conditions, processed materials.** These factors vary according to the process and to the installation site and are **fundamental to select the proper cooling solution.**

3. **A KLIMA CHILLER is not an INDUSTRIAL PROCESS CHILLER:** There's a great difference between an industrial process chiller and a klima chiller applied to process. **A process chiller is expected to work every day, round the clock at the conditions required by your line.** A klima chiller is born to work at conditions which are not those of process and it is expected to perform its top actions for 3 – 4 months per year. Components, surfaces of exchange, resistance to heavy climates, real working conditions make the difference. **Bear this in mind: an INDUSTRIAL PROCESS CHILLER can safely work as a KLIMA one, but the opposite is not so obvious.**

4. **Price is important but PRODUCTION is more:** Chiller is a small but indispensable part of your line. Think of it: save money and invest in a cooling system which is unable to stand your production is a risk you may accept? **If a chiller stops, production stops and downtime costs raise.**

5. **Think today for TOMORROW:** The supply of **a cooling system must refer to the customer's needs** and take into consideration his future expansion, allowing the customer to build his system by steps.

6. **Save MONEY, reduce ENERGY COSTS, respect the ENVIRONMENT:** As the cost of energy is becoming worldwide more and more significant, it is important to **invest in energy-saving systems** reducing their impact on the ambient and granting to the end-user a considerable reduction on his energy bills.

THE BENEFITS OF AN EFFICIENT COOLING

Significant
increase of production

Significant
improvement in quality

Significant
reduction of scraps

Significant
reduction of energy costs

1

Injection Moulding

The injection molding of thermoplastic materials is the most widely used technology in plastics processing.

2

Blow moulding and PET

The blowing of hollow bodies (blow molding) is an important method of polymers processing, used for the production of hollow products.

3

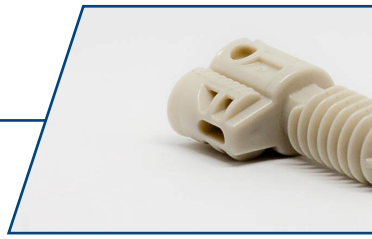
Packaging

Plastics and packaging are an integral part of everyday life. The production of these materials depends on reliable processes and accurate measurement.

4

Technical Parts

The process focuses on mass-producing plastic parts. Shorter cycle times are a must as they mean higher productivity and lower cost per part.



5

Thermoforming

An efficient thermo-cooling control is an essential condition to improve both quality and aesthetics of the thermoformed part as well as to shorten the production cycles.

6

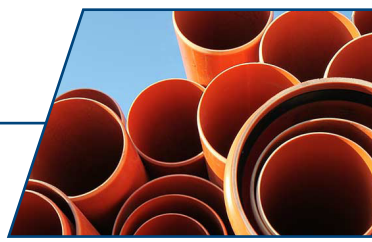
Blown Film

The blown film production covers a wide and varied range of applications: each of them has its specific needs, that's why the choice of the right cooling system is fundamental to get a top-quality and brilliant product.

7

Extrusion of pipes and profiles

The extrusion of pipes and profiles is a high-volume manufacturing process requiring an efficient cooling system to safeguard the technical performances and the reliability of extruded parts.



REQUIREMENTS:
- Reliability
- All-in solution
- Save energy and respect the environment

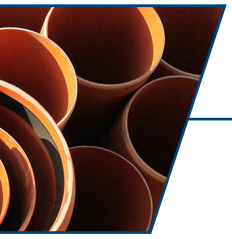
REQUIREMENTS:
- Accurate temperature control
- Shorten the cycle time
- High pressures and raised flow rates
- Control temperature of moulds using different types of material
- Save energy and respect the environment

REQUIREMENTS:
- Large cooling capacities
- Control separately the moulds and the oil temperatures
- Glycol-free operation
- Save energy and respect the environment

REQUIREMENTS:
- Accurate temperature control
- Combined cooling/heating function
- High pressures and raised flow rates
- Beside the machine unit

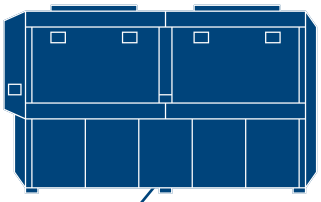
REQUIREMENTS:
- Use of high pressure pumps
- Accurate temperature control
- Efficient thermal exchange during the cooling phase

REQUIREMENTS:
- Get the right solution according to the process requirements
- Cool separately the RING and the IBC
- Accurate temperature control
- Reduce energy consumption

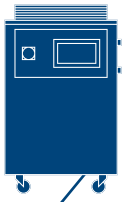


REQUIREMENTS:
- Large cooling requirements
- Glycol-free operation
- Large water flow rates
- Save energy and respect the environment

ADXevo-ADXevo FC



GC



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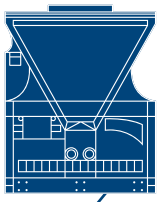

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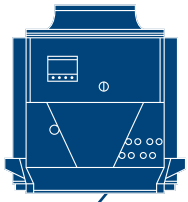

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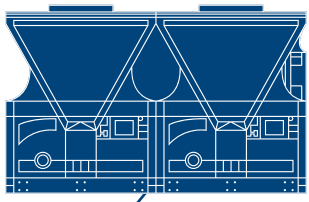
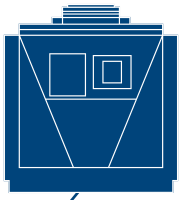
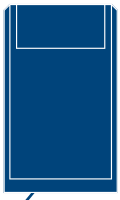


ICEtemp

ADcooler

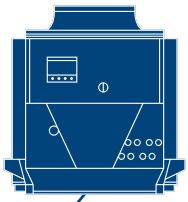


3Flex Hiper

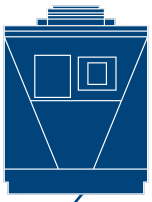


EU-DRYmould

ADY-NAX



Dcooler



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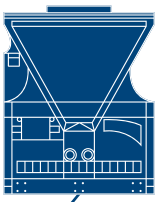

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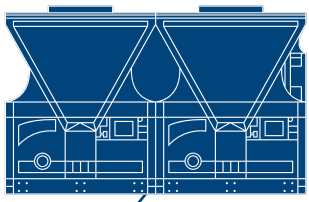
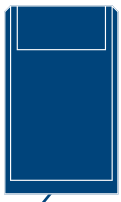


ICEtemp

Rossoblu

3Flex



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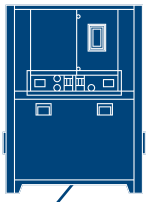
ABFevo



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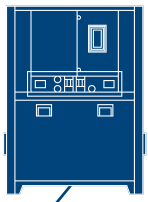
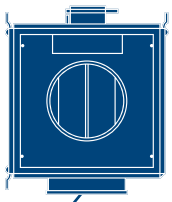
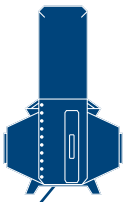


AIR MIX KIT



AIR +



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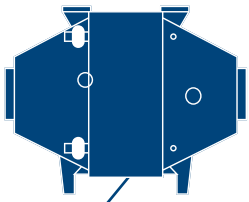

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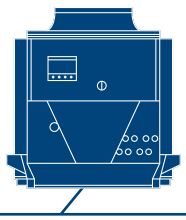

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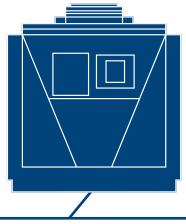

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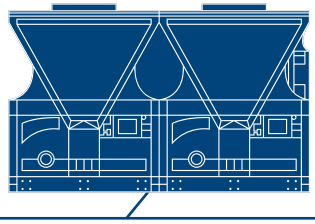
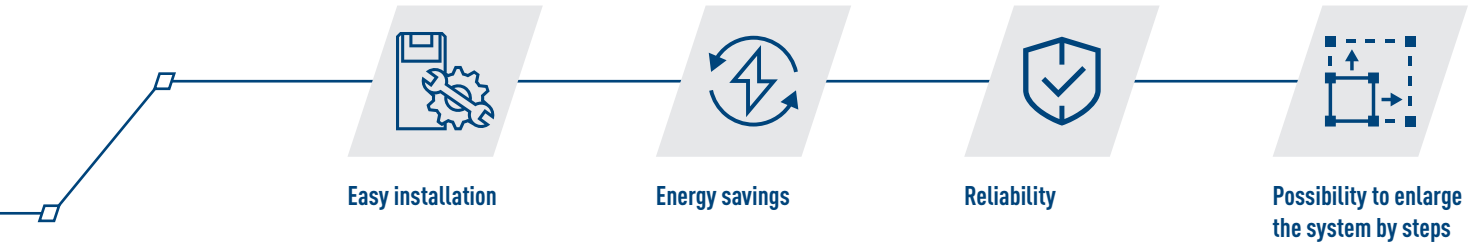
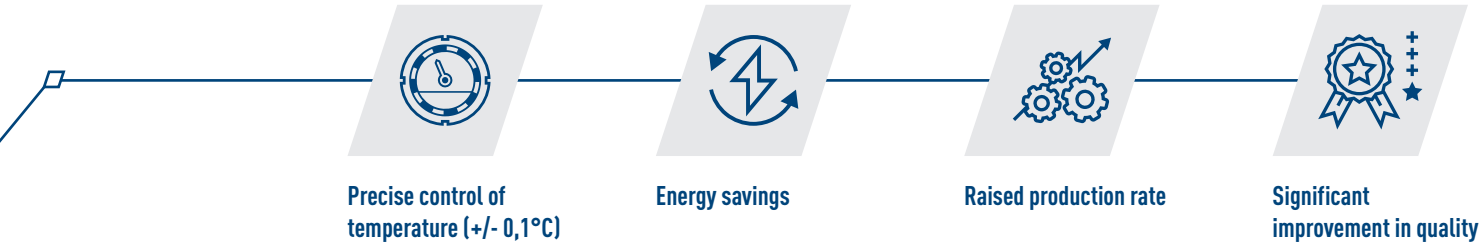
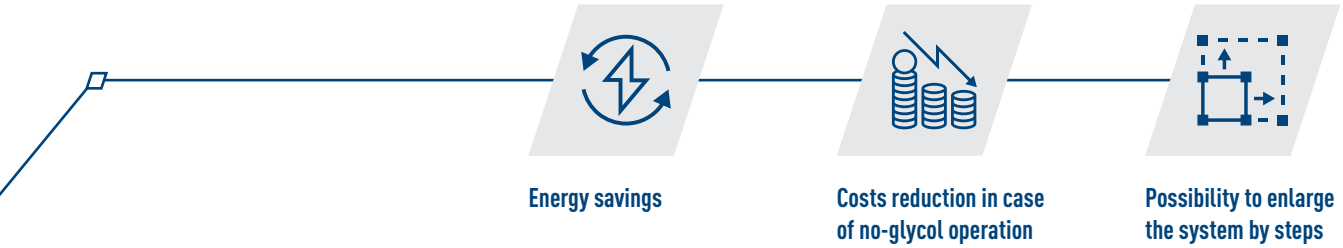
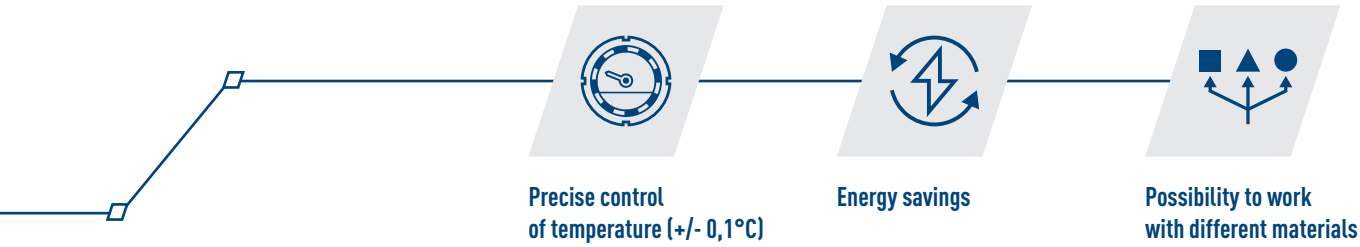
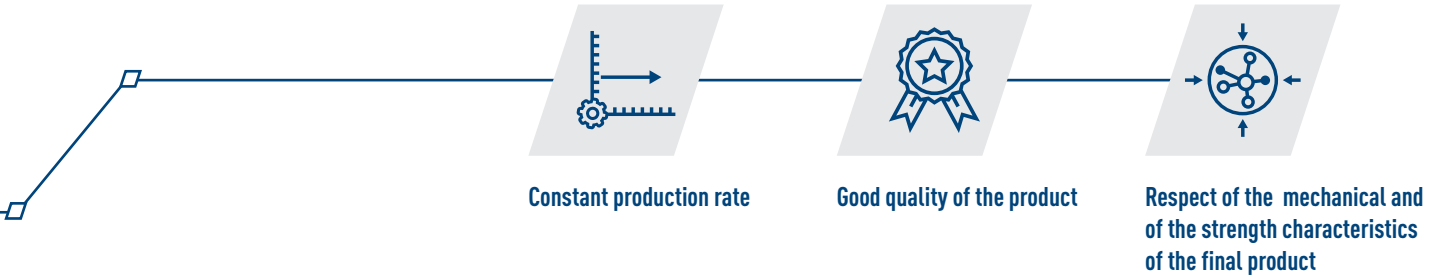


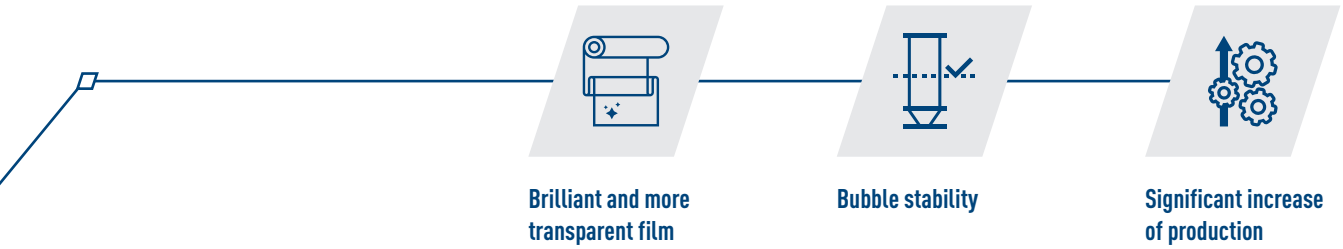

Easy installation
Energy savings
Reliability
Possibility to enlarge the system by steps

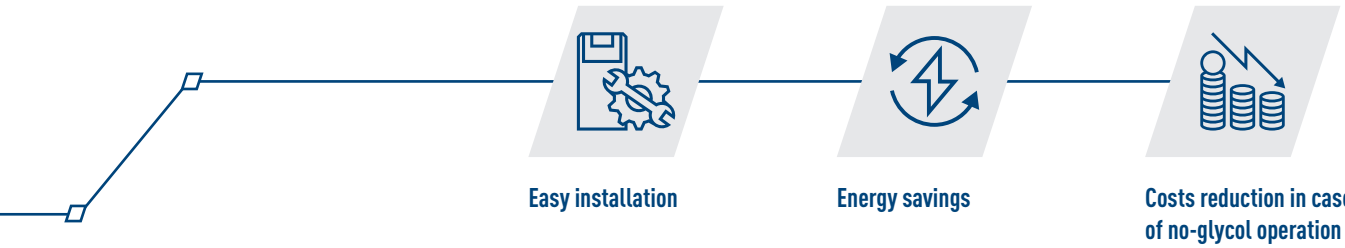

Precise control of temperature (+/- 0,1°C)
Energy savings
Raised production rate
Significant improvement in quality


Energy savings
Costs reduction in case of no-glycol operation
Possibility to enlarge the system by steps


Precise control of temperature (+/- 0,1°C)
Energy savings
Possibility to work with different materials


Constant production rate
Good quality of the product
Respect of the mechanical and of the strength characteristics of the final product


Brilliant and more transparent film
Bubble stability
Significant increase of production


Easy installation
Energy savings
Costs reduction in case of no-glycol operation

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