



INCREASED PRODUCTIVITY

up to 50%

Each mold runs with shortest cooling time, consistently producing high quality parts at the highest throughput.





REDUCED OPERATING COSTS

-40%

Energy savings (**up to 30%**), water savings (**up to 95%**) and maintenance costs Savings (**up to 90%**).



TOTAL MODULARITY

100%

Plug & Play Concept. Easily expandable at any time.
Total reliability.



REDUCED "CARBON FOOTPRINT"

-40%

Unbeatable overall efficiency: intelligent use of energy and free-cooling opportunities.



MINIMIZED WATER FOOTPRINT

-95%

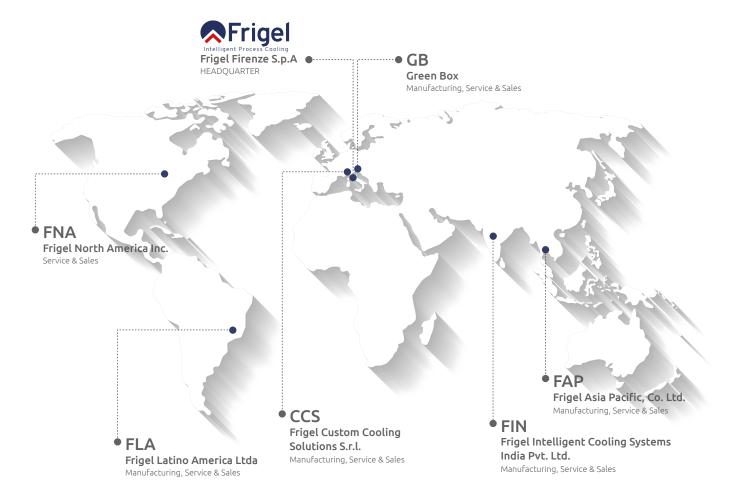
Adiabatic, closed circuit heat rejection technology with no process water evaporation or bleed-off.



REDUCED "RISKS OF EMISSIONS"

-95%

Uses small quantities of innocuous low GWP refrigerant. No disposal of any water treatment chemicals.





THE INNOVATION ECODRY SYSTEM 4.0

PROCESS-SYNCHRONIZED COOLING



A PARADIGM SHIFT IN THE PLASTICS INDUSTRY



THE NEW COOLING SOLUTION **FOR MEDICAL ECODRY SYSTEM 4.0®**

The new approach covers all the variety of applications in medical components molding with unbeatable performance improvements: real cooling cycle time reduction and running costs savings together with outstanding reduction of environmental impact.



Adiabatic Cooling System

Ecodry is a central closed-circuit Adiabatic Cooling System, designed as a replacement of old cooling tower technology. Ecodry is installed outdoors in order to reject to ambient the heat extracted from processes. This system provides direct cooling to all water consuming devices, such as hydraulic heat exchangers, extruder barrels, resin dryers, as well as water cooled air compressors and chillers, etc.

Main Features

- © Cooling capacity: 50 10000 kW (15 3000 tons)
- ① Process flow range: 10 2000 m³/h (50 9000 gpm)
- ① High Efficiency Adiabatic Chamber for air pre-cooling (internationally patented)
- Antifreezing self-draining configuration
- ① Large surface heat exchangers, with copper coils and aluminum fins with hydrophilic protection
- Axial fans with built in brushless EC inverter driven motors individually wired
- Modular design with preassembled stainless steel manifolds for interconnection
- Stainless steel structural frame and aluminum access panels
- Web-monitoring interface

Highlights

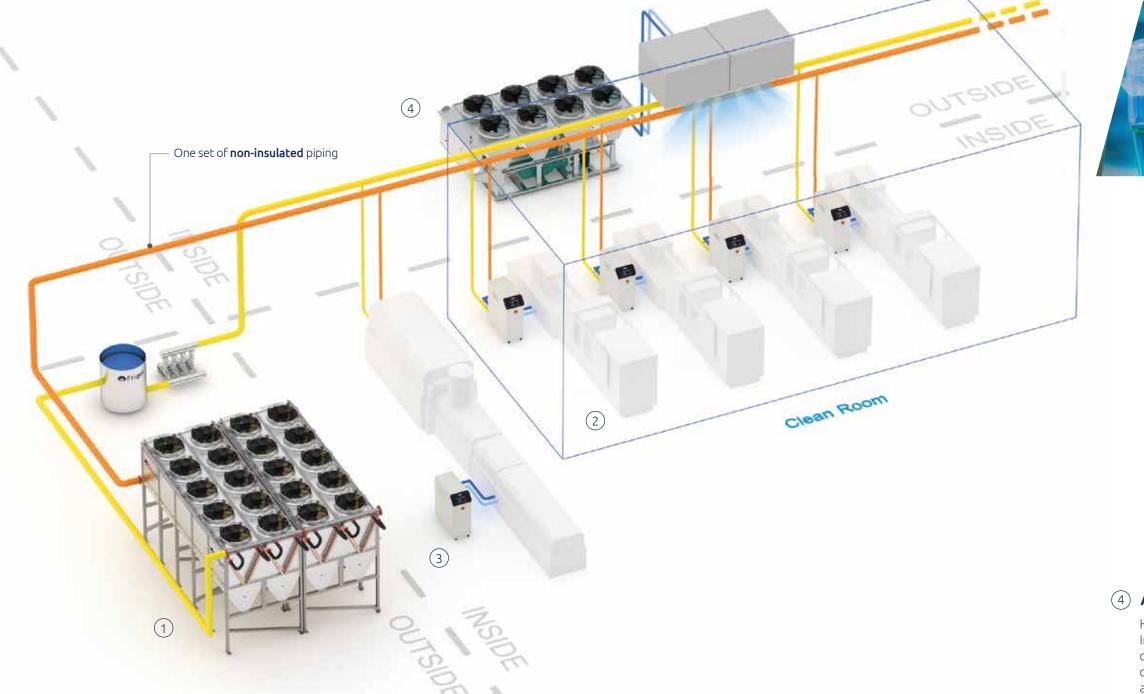
- Guaranteed operation, with minimum water consumption and maintenance also in extreme weather conditions, up to 50°C (120°F) ambient temperature
- ⊗ Safe winter operation without glycol down to -40°C (-40°F) ambient temperature
- High energy savings of fans during partial load operation
- Ocompact design with minimum footprint required between units
- High reliability with electrical redundancy and 100% rust free materials

MICROGEL for Injection Molding

Temperature Control Unit with Chiller & Booster Pumps

Microgel is a super-compact mold cooling unit specifically designed for "cycle cooling time reduction". Combines a water cooled chiller with one or two high flow booster pump temperature controllers with heating elements and a free-cooling valve. Digitally-synchronized with the molding machine, allows for researching and recording the best setting of flow rate and temperature for each zone, optimizing product quality with the minimum cycle cooling time.

- High energy savings with automatic free-cooling
- Automatic mold draining
- Web-monitoring interface





Heavygel is a high efficiency chiller engineered for heavy-duty Industrial applications. The units are equipped with world class components, including high efficiency screw or multi-scroll compressors. The integrated programmable control system assures reliable operation and temperature control under the most demanding conditions and extreme environments.

Main features

- Screw compressor models with capacities of 300 to 1430 kW (85 to 405 tons)
- 15 Scroll compressor models with capacities of 90 to 580 kW
- (25 to 165 tons) temperatures up to 55°C (131°F)
- High-pressure fans available for use with exhaust ductwork
- © Easily expandable for use with Frigel pump sets, reservoirs and filters

Highlights

- High energy efficiency
- High reliability and easy maintenance
- Environmental sustainability
- ⊙ EN 60204/1-compliant safety
- Web-monitoring interface





Temperature Control Unit with Chiller for Extrusion Baths

Microgel for extrusion is a super-compact cooling unit specifically designed for "cooling time reduction" of plastic tubing/profile extrusion lines. Microgel allows total flexibility, thanks to individual temperature control of each cooling bath. Digitally-synchronized with extruder machine, allows for researching and recording the best temperature setting that optimizes product quality with minimum cooling time.

Main features

- Wide temperature range:
- 5 to 90°C \pm 0.2°C (41 to 194°F \pm 0.5°F)
- ⊙ Chiller capacity: from 8 to 100 kW (2.5 to 30 tons)

Highlights

- Process-Synchronized Temperature Control
- Occoping time reduction and increased productivity
- Perfect repeatability

- Web-monitoring interface



