



Mecalor

Products  
**Overview**

Plastic  
Transformation



### MCA MiniChiller

3,000 to 9,000 kcal/h

- Easy-to-operate micro-processed control;
- Economic and easy installation;
- Scroll compressor.



### Compact Chiller MSA/W

5,000 to 100,000 kcal/h

- PLC with touch screen and complete diagnosis of failures;
- Double refrigeration circuit from 30,000 kcal/h;
- Scroll compressor.



### Industrial Chiller RLA/W

130,000 to 850,000 kcal/h

- Adjustable chilled water temperature from 5 to 25°C;
- Integrated stainless steel tank and pump;
- Maximum power efficiency;
- Scroll and screw compressors.



### Oil-free Smartt Chiller

120,000 to 1,500,000 kcal/h

- Low noise level;
- Excellent partial load efficiencies
- Maximum power efficiency;
- Magnetic bearing compressor.



\* For water condensation, consult engineering.

# Chillers Oil-Free

# SMARTD

## Advantages

- Integrated redundancy- several compressors per Chiller;
- Ecological Refrigerant HFC R-134a or R-1234ze;
- Magnetic bearings eliminate friction losses;
- High rotation speed (up to 50,000 rpm);
- Very low initial current < 2 amperes;
- Low maintenance costs;
- Silent, light and compact;
- 100% oil-free;
- Long service life.



We serve all of Latin  
America!



Learn more!



# AluDry<sup>®</sup> Drycooler

# ALU DRY



## AluDry<sup>®</sup> is the ecofriendly substitute of the conventional cooling towers.

- Lowest payback on the market, quick return on investment
- 98% reduction in water consumption and treatment
- High cooling capacity, 66% higher than other technologies
- Lower operating costs, fewer fans, lower energy consumption
- High humidification efficiency, evaporative panels, no sprinklers
- Zero waste, continuous recovery of humidification water
- Sustainable, no harm to the environment

### Use





# Thermo Regulator

- Direct or indirect cooling
- Stainless steel electric resistance
- Precise control with stability of  $\pm 0,5^{\circ}\text{C}$
- Hydraulic pump and circuit in stainless steel
- Water or oil heating with power of 9 to 50 kW



PLC with touchscreen  
Communication with  
the injector or blower



- Adjustable water temperature up to  $90^{\circ}\text{C}$
- Highly reliable two-way proportional valve



## Thermo-5



## Hb-Therm

Swiss company, world leader in the manufacture of high-performance thermoregulators.

### Advantages

- Lower energy use in heating and cooling
- Fully automatic process monitoring
- Shorter heating and cooling times
- High-precision temperature control
- Energy efficiency
- Easy operation

HB-Therm  
Discover the 5 series



# ThermoChiller DUO



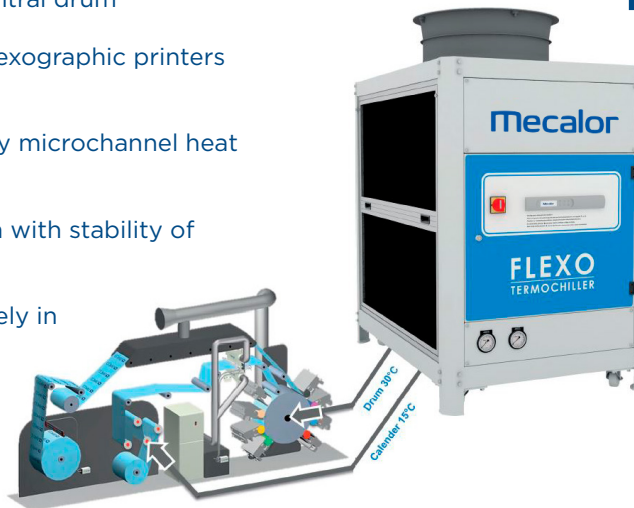
- Water condensation with plate heat exchanger
- Water filter for evaporator and condenser
- High water flow and pressure for injection and blow
- Integrated stainless steel tank and pump
- Low ( $\Delta T$ ) for higher precision of the items produced
- Temperature control in two zones, from 10 to 90°C
- Water refrigeration and heating
- R-410A ecological refrigerant

PLC with touchscreen  
Communication with  
the injector or blower



# ThermoChiller FLEXO

- Adjustable temperature from 5 to 20°C for the calenders and 25 to 50°C for the central drum
- Single model of 20,000 kcal/h for flexographic printers of 4 to 12 colors
- Air condensation with high efficiency microchannel heat exchangers
- Accurate control of the central drum with stability of  $\pm 0.5^\circ\text{C}$
- Hydraulic pump and circuit completely in stainless steel
- Temperature control in two independent zones



Optimized flow to ensure  
printing quality and  
speed



# Dry Air Unit (DAU)



- 40 to 50% higher energy efficiency compared to the use of a dissecting (chemical) rotor
- Allows cold water up to  $-5^{\circ}\text{C}$  in the injection and blow molds without generating condensation in the cavities
- It can be an individual unit per mold or a dry air central unit for one line of machines
- Dehumidification technology by refrigeration with dew point of up to  $4^{\circ}\text{C}$
- Increases productivity and eliminates stains on the injected or blown items
- Regeneration (reheating of dry air) through the condenser itself
- Specially developed for injection and blow molds

- Remote air condenser option (split type)  
Independent units for air ring and IBC
- Water condensation with plate heat exchanger
- It can be installed on the structure of the extruder
- Air temperature control with precision of  $\pm 0.5^{\circ}\text{C}$
- Serves one layer extruder or COEX extruder up to 7 layers
- Air temperature from  $5$  to  $25^{\circ}\text{C}$  to ensure yield
- Bubble extruders with production up to 1000 kg/h of PEAD/PEBD

Maximum energy efficiency without the use of external chilled water



# Cold Air Unit UAF

Heat Exchanger TC



# Our Customers

## Plastic Industry



## Automotive Industry



## Electric Appliances



## Mechanical and Metallurgical Industries



## Hospital Market



## Pharmaceutical Industry



## Food Industry



## Others



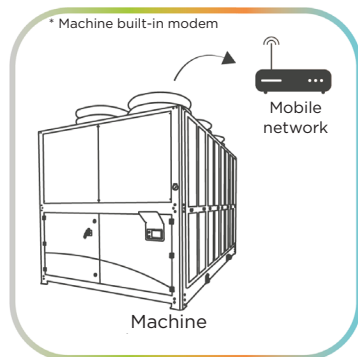




# Are you READY 4.0?

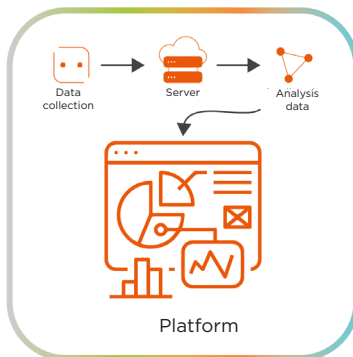
## Mecalor is ready for Industry 4.0

### Intelligent remote monitoring



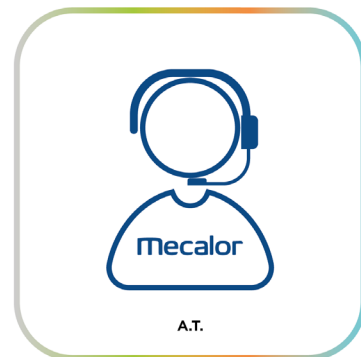
Customer

Os dados de operação da máquina são transmitidos para a plataforma.



NEO Platform

With the report, we have access to the operating information of your equipment in real time.



Technical Support services

We monitor the equipment to check for possible faults and guarantee greater machine Uptime.

## Advantages

- Advanced start-up support;
- Fast troubleshooting;
- Reliable fault diagnosis;
- Prepared to measure energy consumption;
- Trend analysis through operating history.

**For customers with a contract starting with the Plus Plan!**

**Active Support:**

- Performance reports;
- Proactive service;
- Change of parts.



\* Contracts already available for the RL and SMARTD Turbocor line.

# Services Post-sale



**Free, Lifetime Support**  
Zero cost for solving problems over the phone



**Prices**  
Best cost-benefit in the market



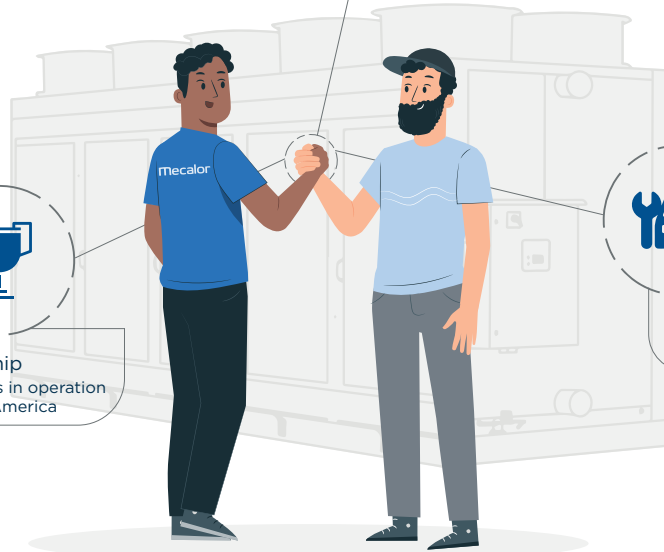
**Customer Satisfaction**  
The average grade of 9.1 has been granted to us in the last few months



**Market Leadership**  
Over 23.000 chillers in operation in Brazil and Latin America



**Experienced Professionals**  
Qualified technicians with more than 15 years of experience



**Workshop car**  
Equipped with high technology parts and tools

## Mecalor Plans

	Basic Plan	Plus Plan!	Total Plan	Critical Mission
Service Hotline	Unlimited	Unlimited	Unlimited	Unlimited
Preventive Visits	Yes	Yes	Yes	Yes
Corrective Visits		3	Unlimited	Unlimited
Spare Parts		10% of the contract	Unlimited	Unlimited
Service Time (SLA)		24 Hours	12 Hours	6 Hours
Active Support		NEW	NEW	NEW

Preventive and Corrective Maintenance Services.

**Mecalor**  
reforma

Your equipment reformed and with warranty

**BEFORE**



**AFTER**





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