

COOLANIS TECHNOLOGY

BARREL HEATING SYSTEMS

2024

TECHNICAL INFORMATION AND SPECIFICATIONS



Coolanis
Technology

Creative Solutions

WHO WE ARE

COOLANIS TECHNOLOGY is an organization with approximately 14 years of experience and expertise in the industrial manufacturing sector. We specialize in producing a wide range of standard and custom-designed industrial ovens for industrial processes. Our aim is to provide functionality, reliability, and convenience in industrial facilities.

PRINCIPLES OF ACTION

Customer-centric approach,

Efforts for global recognition,

Commitment to leadership and efficiency principles,

Readiness for change,

Compliance and agility.

OUR VALUES

Communication and Trust: We engage in interactive communication to provide stakeholders with the information they need and ensure they understand our plans. Mutual understanding and communication that transcends boundaries of relationship level and cultural differences build trust.

Innovation: We aim for a sustainable life with continuously renewed technologies to adapt to changing economic, social, and environmental conditions.

Cultural Adaptation: Wherever we operate globally and locally, we respect national, cultural, and corporate values and adapt to the cultural diversity of our internal and external stakeholders.

Determination: When faced with challenging and new tasks, we overcome them with confidence and courage. We work with enthusiasm and passion, and we work steadfastly for success.

Our Drum Heating Cabinets - Electric

Technical Specifications

Precision Digital Temperature Control: Thanks to Siemens PLC integration, the temperature control of our drum heating cabinets is provided with extremely high precision.

Zero-Floor Mounting: Our cabinets can be mounted at zero floor level as needed, providing flexibility in installation.

Warranty: Each of our cabinets is under manufacturer's warranty, providing reliability and performance for 2 years.

Capacity: Our models with different capacities offer solutions tailored to your industrial production needs. (Capacity is added as specified)

Construction Materials: All-steel construction, reinforced with 1.2 mm inner walls and 1.4 mm outer walls. Optionally, the use of 304 stainless steel is possible.

Insulation: 5cm thick mineral wool insulation minimizes heat loss and ensures energy efficiency.

Heating Source: Our electrically operated cabinets provide powerful performance. (Power and voltage are specified according to the specified capacity) Gefran proportional driver ensures precise temperature control.

Independent Operation Options: Our models with different capacities offer various combinations of independent operation, with 4+4 drums or 1 IBC tank with 1 IBC tank according to the specified capacity, providing production flexibility and enabling simultaneous processing of different products.

Operating Temperature: With a working temperature range between room temperature and 180°C, it offers a wide range of uses.

Appearance: External and internal surfaces are coated with durable oven paint. Optionally, stainless steel cladding is available.

Installation: Our cabinets, which are sent fully assembled, are ready for use immediately after on-site electrical connection.

Engineering: Our cabinets, designed in accordance with technical specifications, have a flexible structure with control and safety systems. They offer optional interchangeable features.

Air Circulation: Air circulation fans provide homogeneous temperature distribution and ensure uniform heating of products.

Please Note: Should not be used for flammable materials. Electric models are not suitable for use in explosive environments. Cabinet manufacturing suitable for explosive environments is available.



CE-4. 4 Drum (200lt) or 1 IBC Heating Cabinet - Electric



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	17kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	1x16
*Depth net [mm]	1460
*Height net [mm]	1700
*Width net [mm]	1460
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350
*Width [mm]	1380
Measurements	
*Internal Volume [m3]	2570
*200lt Drum Capacity	4
*1000lt IBC Tank Capacity	1
*120x120 Pallet Capacity	1
*Permitted load [kg]	1000

CE-8. 8 Drum (200lt) or 2 IBC Heating Cabinet - Electric



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	34 kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	2x16
*Depth net [mm]	1460
*Height net [mm]	
*Width net [mm]	1460
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350
*Width [mm]	1380
Measurements	
*Internal Volume [m3]	2570
*200lt Drum Capacity	8
*1000lt IBC Tank Capacity	2
*120x120 Pallet Capacity	2
*Permitted load [kg]	2200

CE-12. 12 Drum (200lt) or 3 IBC Heating Cabinet - Electric



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	51kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	3x16
*Depth net [mm]	1460
*Height net [mm]	1570
*Width net [mm]	4500
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350
*Width [mm]	4140
Measurements	
*Internal Volume [m3]	
*200lt Drum Capacity	12
*1000lt IBC Tank Capacity	3
*120x120 Pallet Capacity	3
*Permitted load [kg]	3000

CE-16. 16 Drum (200lt) or 4 IBC Heating Cabinet - Electric



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	68kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	4x16
*Depth net [mm]	1460
*Height net [mm]	1570/2980
*Width net [mm]	3060/5940
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350/2700
*Width [mm]	5520/2760
Measurements	
*Internal Volume [m3]	
*200lt Drum Capacity	16
*1000lt IBC Tank Capacity	4
*120x120 Pallet Capacity	4
*Permitted load [kg]	4000

CE-20. 20 Drum (200lt) or 5 IBC Heating Cabinet - Electric



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	150° C
*Power [kW]	85kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	5x16
*Depth net [mm]	1460
*Height net [mm]	1700
*Width net [mm]	7500
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350
*Width [mm]	7450
Measurements	
*Internal Volume [m3]	
*200lt Drum Capacity	20
*1000lt IBC Tank Capacity	5
*120x120 Pallet Capacity	5
*Permitted load [kg]	5000

CE-24. 24 Drum (200lt) or 6 IBC Heating Cabinet - Electric



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	102 kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	3x16
*Depth net [mm]	1460
*Height net [mm]	2980
*Width net [mm]	4500
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	2700
*Width [mm]	4500
Measurements	
*Internal Volume [m3]	2570
*200lt Drum Capacity	24
*1000lt IBC Tank Capacity	6
*120x120 Pallet Capacity	6
*Permitted load [kg]	6000

Drum Heating Cabinet Steam

Technical Specifications

Precise Digital Temperature Control: With Siemens PLC integration, our steam drum heating cabinets ensure precise temperature control.

Warranty: Each of our cabinets is backed by a manufacturer's warranty, providing reliability and performance for 2 years.

Capacity: Our models come in various capacities, offering solutions tailored to industrial production needs. (Capacity will be specified accordingly)

Construction Materials: All-steel construction, reinforced with 1.2mm internal walls and 1.4mm external walls. Optional use of 304 stainless steel is available.

Insulation: 5cm thick mineral wool insulation minimizes heat loss and ensures energy efficiency.

Heating Source: Our steam-operated cabinets deliver powerful performance. (Power will be specified according to capacity) The Gefran proportional drive ensures precise temperature control.

Independent Operation Options: Depending on the specified capacity, our cabinets provide independent operation options for 4+4 drums or 1 IBC + 1 IBC tank.

Operating Temperature: With a wide operating temperature range from room temperature to 180°C, it caters to various applications.

Appearance: Outer and inner surfaces are coated with durable oven paint.

Installation: Our cabinets are shipped fully assembled and are ready for immediate use after on-site electrical and steam connection.

Engineering: Designed to meet technical specifications, our cabinets feature flexible structures with control and safety systems. Optional interchangeable features are available.

Air Circulation: Air circulation fans ensure homogeneous temperature distribution, enabling even heating of products.

Please Note: Not suitable for use with flammable substances. Steam models are not suitable for use in explosive environments. Cabinets suitable for explosive environments are available.

BE-4 Drum (200lt) or 1 IBC Heating Cabinet - STEAM



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	14kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	1x16
*Depth net [mm]	1460
*Height net [mm]	1700
*Width net [mm]	1460
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350
*Width [mm]	1380
Measurements	
*Internal Volume [m3]	2570
*200lt Drum Capacity	4
*1000lt IBC Tank Capacity	1
*120x120 Pallet Capacity	1
*Permitted load [kg]	1000

BE-8. 8 Drum (200lt) or 2 IBC Heating Cabinet - STEAM



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	34 kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	2x16
*Depth net [mm]	1460
*Height net [mm]	
*Width net [mm]	1460
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350
*Width [mm]	1380
Measurements	
*Internal Volume [m3]	2570
*200lt Drum Capacity	8
*1000lt IBC Tank Capacity	2
*120x120 Pallet Capacity	2
*Permitted load [kg]	2200

BE-12. 12 Drum (200lt) or 3 IBC Heating Cabinet - STEAM



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	51kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	3x16
*Depth net [mm]	1460
*Height net [mm]	1570
*Width net [mm]	4500
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350
*Width [mm]	4140
Measurements	
*Internal Volume [m3]	
*200lt Drum Capacity	12
*1000lt IBC Tank Capacity	3
*120x120 Pallet Capacity	3
*Permitted load [kg]	3000

BE-16. 16 Drum (200lt) or 4 IBC Heating Cabinet - STEAM



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	68kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	4x16
*Depth net [mm]	1460
*Height net [mm]	1570/2980
*Width net [mm]	3060/5940
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350/2700
*Width [mm]	5520/2760
Measurements	
*Internal Volume [m3]	
*200lt Drum Capacity	16
*1000lt IBC Tank Capacity	4
*120x120 Pallet Capacity	4
*Permitted load [kg]	4000

BE-20. 20 Drum (200lt) or 5 IBC Heating Cabinet - STEAM



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	150° C
*Power [kW]	85kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	5x16
*Depth net [mm]	1460
*Height net [mm]	1700
*Width net [mm]	7500
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	1350
*Width [mm]	7450
Measurements	
*Internal Volume [m3]	
*200lt Drum Capacity	20
*1000lt IBC Tank Capacity	5
*120x120 Pallet Capacity	5
*Permitted load [kg]	5000

BE-24. 24 Drum (200lt) or 6 IBC Heating Cabinet - STEAM



*Heating time up to 120°C [min] EMPTY	55'
*Temperature range ambient temperature 5°C to [°C]	120° C
*Power [kW]	102kW
*Phase (voltage)	380v
*Power Frequency [Hz]	50/60
*Voltage [V]	400
*Unit fuse [A]	3x16
*Depth net [mm]	1460
*Height net [mm]	2980
*Width net [mm]	4500
*Internal Dimensions	
*Depth [mm]	1380
*Height [mm]	2700
*Width [mm]	4500
Measurements	
*Internal Volume [m3]	2570
*200lt Drum Capacity	24
*1000lt IBC Tank Capacity	6
*120x120 Pallet Capacity	6
*Permitted load [kg]	6000



Coolanis Technology's industrial drum heating jackets stand at the forefront of the highest quality and purpose-built drum heating solutions in our country, with 15 years of sales experience and numerous satisfied customers. Suitable for 200-220-liter drums, they can also be custom-made according to customer requirements. Drum heating jackets are particularly suitable for melting soaps, solid fats, varnishes, and oil-based products, or for reducing their viscosity.

Product Structure: Drum heating jackets are designed for industrial conditions, the temperature values required by the industry, and especially for long-term durability, and have been continuously improved over the years based on customer feedback. They feature a non-flammable

inner lining and a stain-resistant outer shell. Kevlar stitching and iron clasps, suitable for years of intensive use and assembly, set them apart from their counterparts.

The control equipment developed by Coolanis Technology allows personnel to easily adjust the temperature with simplicity and stability. Mounted onto the jacket with Kevlar stitching, the aluminum-layered, silicone-insulated, fiberglass mesh heating element ensures top-level reliability.

Thanks to the special double-layered carbon insulation, rapid heating is achieved while increasing the safety level. With 1000 Watt and 2000 Watt models, it offers broad solutions to industrial needs.

**Product Dimensions - Barrel – Heating Power –
Product Dimensions – Suitable Diameter Range**

200 liters – 1000 watts – 1950x800 mm – 573 – 621 mm

200 liters – 2000 watts – 1950x800 mm – 573 – 621 mm

Technical Specifications

Max. Jacket Temperature: 90°C

Power Supply: 230 V

Inner Lining: Silicone / Fiberglass

Outer Lining: Waterproof polyester fabric

Heat Insulation: Carbon Fiber

Protection Class: II

Plug Length: 3 meters

Buckle: Steel buckle and polyester reinforced strap

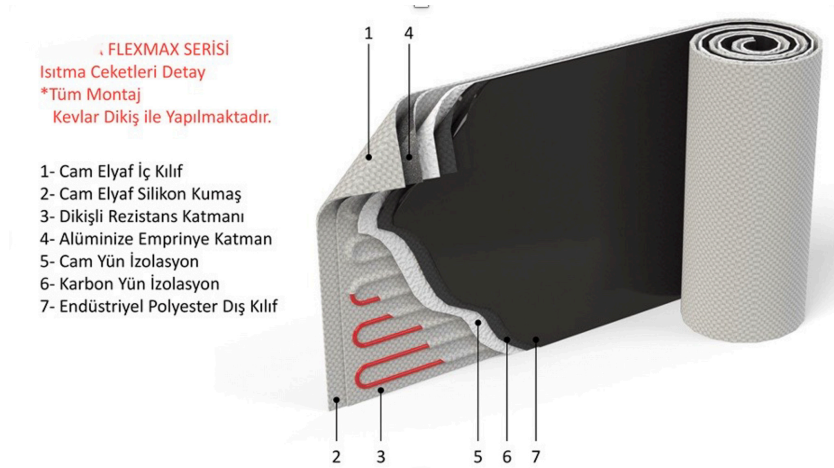
Thermostat: Precision digital thermostat and control unit, 0-120°C

Control Range: 0 – 120 °C

Heating Area: P1000 – Single zone / entire surface heats up

P2000 – Dual zone / entire surface heats up

Power Options: P1000 (1000 Watt), P2000 (2000 Watt)



Special Size and Power Options: Yes, Optional

Safety Instructions

Read all instructions before using the heater.

Unplug the power cord when not in use.

Do not immerse the heater in liquids.

Do not touch the surface of the heater during operation. Wait for the heater to cool down completely before using it again after turning it off.

Use the heater only for its intended purpose as described in these instructions.

Disconnect the power supply before removing the terminal cover.

Do not use the heater if it is damaged in any way. If the electrical cord is damaged, it must be replaced by the manufacturer or a similarly qualified person using a special flexible cable to prevent danger.

The heater must be connected to the power source through another equipment that provides protection against leakage current or electric shock.

Remove the air from the barrel during operation to prevent internal pressure buildup.

Check if the voltage marked on the heater matches the electrical source to which it will be connected.

The barrel heating jacket is double insulated and therefore does not require grounding. A suitable and approved plug for the country where the heater is used must be attached to the electrical cable by a qualified person.

Operating Instructions

Storage solutions can be plastic or metal. Do not prefer products over 1000 watts for plastic barrels. For steel barrels, 1000 Watt is suitable for frost prevention, but you can prefer 2000 Watt products for process heating purposes.

Place the barrel heating jacket around the barrel in a way that the fixing straps are positioned above and the logo is in a readable form. Pass the connection straps through the iron buckles, taking up the slack of all three straps. After connecting the upper fixing straps, tighten the straps to ensure the final form of the barrel heater. Make sure the jacket does not touch the ground and there is no gap between the jacket and the barrel.

Set the thermostat to the required temperature.

NOTE: The thermostat sensor is positioned to detect the temperature between the heating surface and the barrel, not the content of the barrel. Achieving the ideal temperature of the barrel contents is obtained through experience depending on usage.

Plug the heater into the power source. The red LED indicates "ready to operate."

The heater jacket will start to heat up and will continue until the required temperature set by the thermostat is reached. Then, it will cycle at this set point until the thermostat setting changes or the heater is disconnected from the power source. The orange LED will light up during the heating process.

Turn off the heater and remove it from the barrel before emptying its contents. This will prevent the heater from being contaminated by debris.

Cleaning and Storage

Always disconnect the heater from the power source before cleaning. Wipe the jacket and terminal box with a damp cloth. Do not use solvents or abrasive materials, and never immerse the heater in liquid. When not in use, the heater can be folded for storage. Do not wrap it tighter than 150 mm in diameter. For more information on usage or service, contact the manufacturer or supplier.



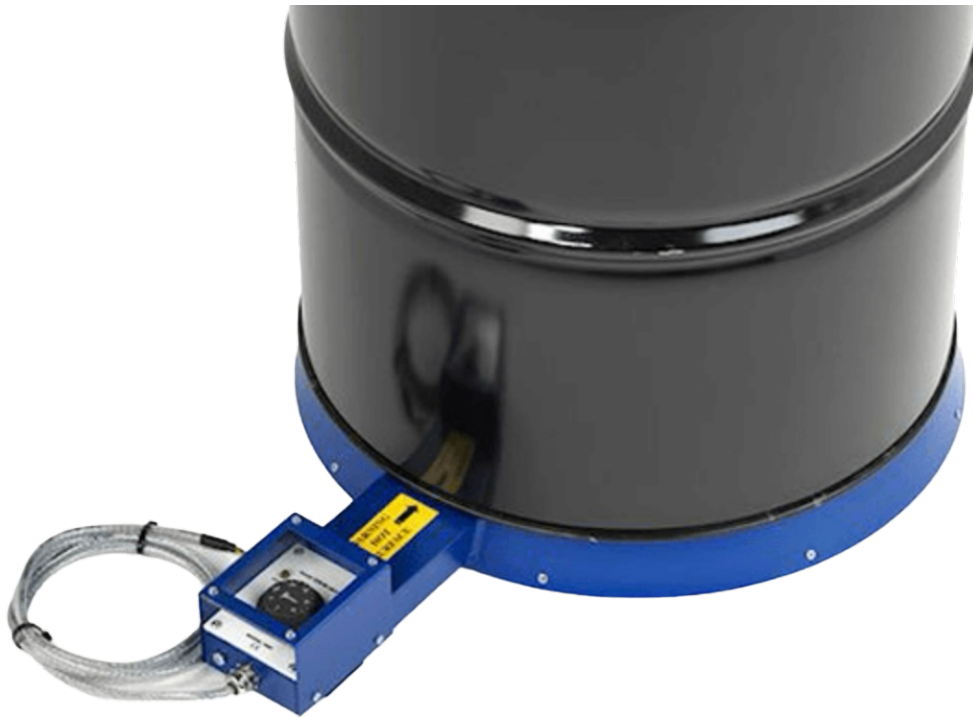


Plate Drum Heating Product

Designed to withstand industrial conditions with long-lasting materials. It is suitable for one drum capacity and can be used for products other than barrels due to its flat surface. Additionally, it can be combined with a drum heating jacket.

Plate Drum Heaters

Specifically designed for heating soaps, solid fats, paints, waxes, and oil-based materials. The design of the heater is tailored for 200-liter steel drums. The fixed temperature of the heating plate is achieved using a silicone mat heater and additional insulation on the floor panel.

Product Structure

Made of AISI 430 stainless steel with a thickness of 6 mm, ensuring high stability. Temperature is controlled by a thermostat; two LEDs indicate the presence of supply voltage and the operating status of the heater. The base drum heaters use a capillary tube thermostat with a range from 0 °C to 150 °C.

Key Features

Robust steel construction

Floor insulation

Even heat distribution

Easy to use

2-meter cable

Standard 230 V – Custom voltages possible

IP40 protection

Suitable for 200-liter drums

Adjustable thermostat from 0 to 150 °C

Short delivery time

Technical Specifications

Supply voltage: 230 V (Custom voltages possible)

Maximum temperature: 150 °C

Body material: Steel

Insulation Material: Glass Wool

Protection Class: II

Power Cable: 2 meters

Control: Adjustable thermostat

Control Range: 0 – 150 °C

Heating Zones: 1

Product Dimensions

Heating Power 230 V: 900W / 1500W / 3800 W

Heating Area Dimensions: Height 70 mm / Ø Top Surface
550 mm / Ø Bottom Surface 600 mm

Control Unit Dimensions: Height 105 mm – Width 280 mm

Total Size: Height 105 mm – Length 880 mm – Width 600
mm

Transportation and Packaging

Weight: 15 kg

Box Dimensions:

Height 145 mm

Length 950 mm

Width 690 mm



Contact:

Email: info@coolanistechnology.com

Phone: +90533 044 80 35 - 0232 256 7296

Address: Yedi Eylül Mahallesi 5563. Street No: 7

TORBALI / İZMİR

Website: www.coolanistechnology.com