

Complementary heating accessories



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Cat21-2-10-1




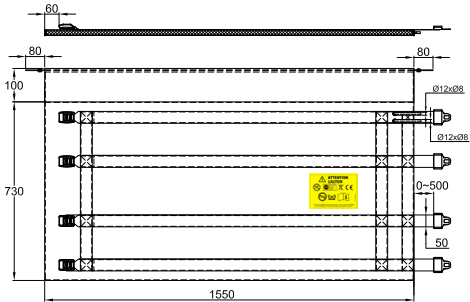

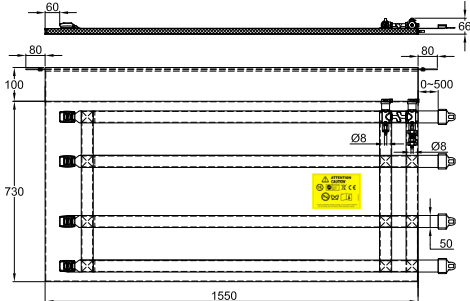

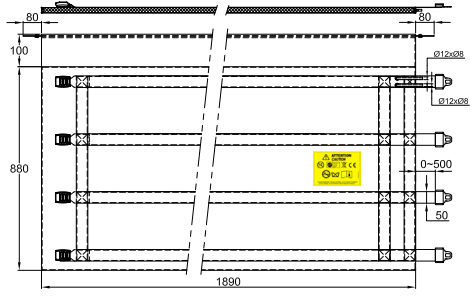

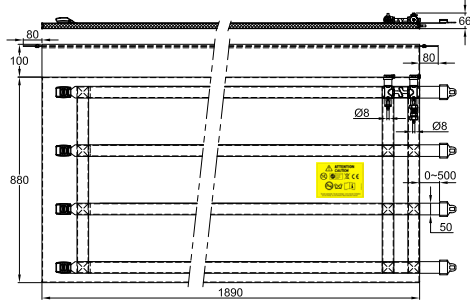
Insulation jackets with heat exchanger tubular circuit (heating or cooling)

Model	Insulation thickness	Protective cover fabric	Type
Tubular heat exchanger jacket	20mm	PA with PU waterproof internal layer	9V3

Main Features

These insulating jackets with tubular exchanger circuit can maintain temperature, protect from frost, heat or cool containers. On their surface in contact with the container, is built a network of flexible silicone tubes in which the heating or cooling fluid can circulate. They are to be connected to an external power source: electric heater, central heating circuit, heat pump, boiler, solar heating, cooling circuit. The maximum allowable pressure is 0.15MPa at 100°C, and the maximum temperature they can withstand is 120°C. The heat transfer fluid is connected to two valves equipped with automatic air traps. We recommend the use of a flow sensor because the compression of the internal tubes by too tight tightening of the straps can restrict or even stop the circulation of heat transfer fluid.

Option: version with R36 flow switch, ¼" thread, 1A breaking capacity. This model has a pressure relief valve set at 0.2MPa

Picture	Drawing	Description	Reference
		Jacket heat exchanger for 110L (30 gallons).	9V314173155N20
		Jacket heat exchanger for 110L (30 gallons). With flow switch and overpressure valve.	9V314173155AVF
		Jacket heat exchanger for 210L (55 gallons).	9V314188189M20
		Jacket heat exchanger for 210L (55 gallons). With flow switch and overpressure valve.	9V314188189AVF

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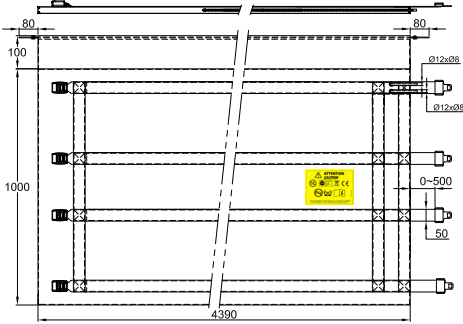

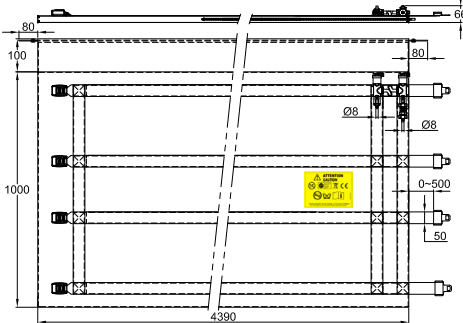


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Cat21-2-10-3

Insulation jackets with heat exchanger tubular circuit (heating or cooling)

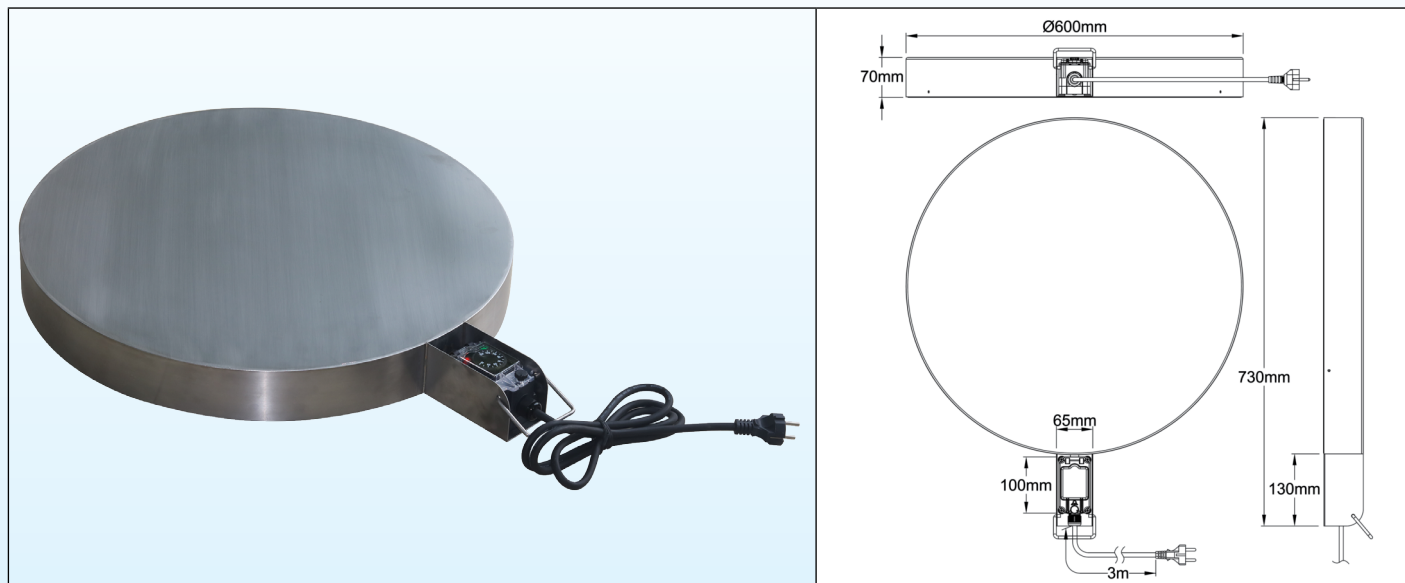
Picture	Drawing	Description	Reference
		<p>Jacket heat exchanger for 1000L IBC, (2 circuits).</p>	<p>9V3142A0439N20</p>
		<p>Jacket heat exchanger for 1000L IBC, (2 circuits). With flow switch and overpressure valve.</p>	<p>9V3142A0439AVF</p>

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Base heater for 55 gallons metal drum

Heating surface	Power	Enclosure	Ingress protection	Temperature control	Type
Dia. 560mm	1000W	304 Stainless steel	IP69K	10-150°C thermostat	9V4



Main Features

These heaters are used to heat the 200-220 liters (55 US gallons, 45 Imperial Gallons) drums and their lower size versions. Completely made of 304 stainless steel, 1.2 and 2mm thick, resistant to high pressure hot water jet washing, **they can withstand industrial environment, food and chemical applications**. They are not usable in explosive areas. The drum simply needs to be put on these pedestals. The surface load of the heating element is limited to a safe value of 0.5W/cm² and the surface temperature is limited to 150°C. They can be used alone in reheating, with or without insulating jacket, or in addition to jacket heaters or heating belts, and in the latter case, they greatly reduce the heating time. As for all heaters for containers and tanks, it is mandatory to keep a connection to atmospheric pressure to avoid an internal overpressure which could burst the barrel. They come standard with 3 x 1mm² rubber insulated cable, for industrial applications.

Heating surface: 3.5mm thick silicone flat element vulcanized under the upper surface and covering the entire 600mm diameter surface. This technique provides a uniform temperature.

Base: 304 stainless steel, 600mm diameter, height 70mm, TIG welded.

Control box: 56 mm x 63 mm, height 100 mm in PA66 reinforced fiberglass, with waterproof and sealable window. This control box is protected from violent shocks by a stainless-steel envelope. It has a handle for easy handling.

Ingress protection class: IP69K

Temperature control: By bulb and capillary thermostat with 10-150°C adjustment range. Other temperature ranges 4-40°C, (39-104°F) 30-90°C (86-,194°F) 30-110°C (86-230°F) are available in option. Access to the thermostat setting is possible opening the window.

Cable gland: M20 in PA66.

Connection cable: Rubber insulated, for industrial environments, 3 x 1mm², length 3m, with Euro plug or UL plug.

Surface load: 0.5 W/cm²

Supply voltage: 230V (110V on request)

Standard equipment: Green and red pilot lights, indicating power on and operation of the heater

Accessories: Insulating Jackets

Standards: Built in accordance with applicable European standards (CE marking)

Instructions for use: Observe the instruction manual enclosed with the device.

Main part numbers (°C printed knob) *

With 10-150°C (50-300°F), thermostat with 3 meters cord with Euro plug	With 10-150°C (50-300°F), thermostat with 3 meters cord with UL plug
9V46004A0088C3E	9V46004A0088C3U

* °F printed knob: replace C by F in the part number



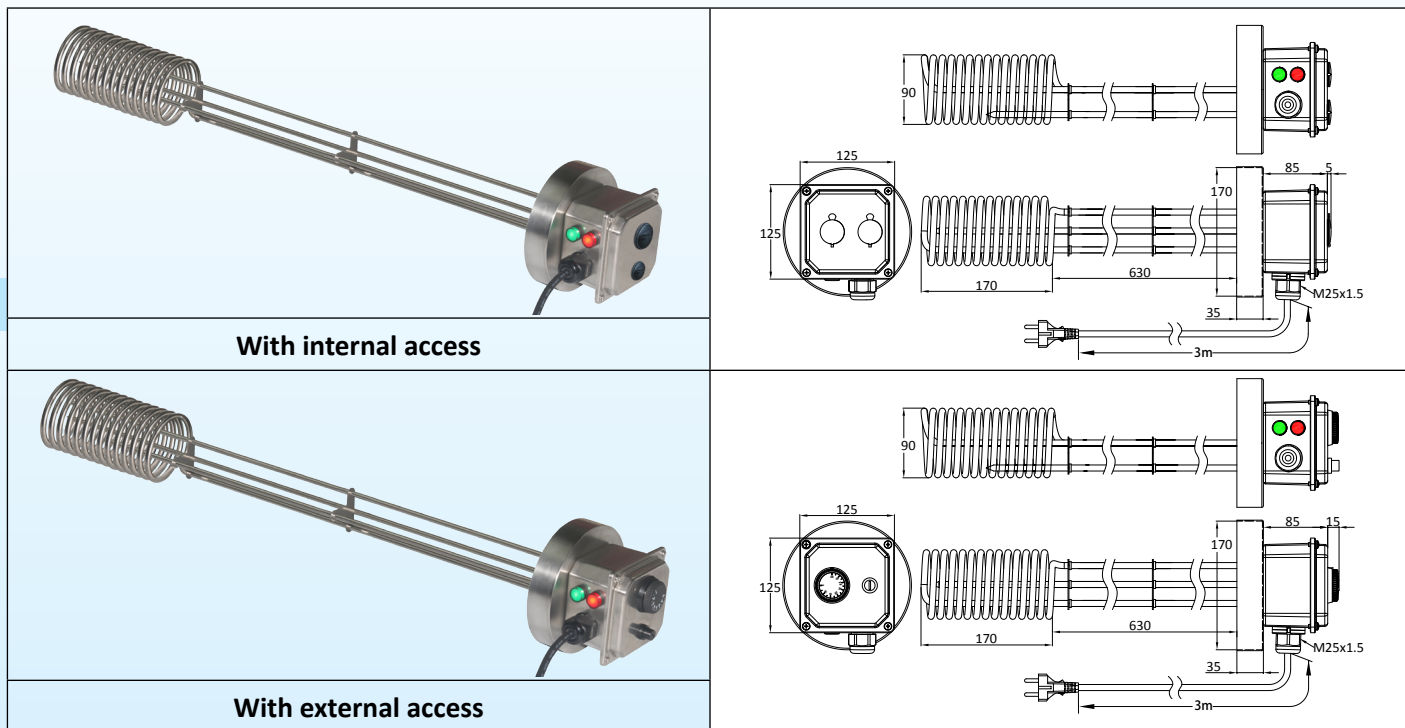
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Cat21-2-10-5

Immersion heater for 1000 liters IBC

Immersion length	Power	Enclosure	Safety	Temperature control	Type
800mm	3000W	Stainless steel, IP54 or IP69K	Dry-run safety	30-90°C thermostat	9SWR2



With internal access

With external access

Main Features

These immersion heaters are mounted on the filling hole of the bulk containers of 1000 liters or more. They simply land on this hole, thanks to a stainless steel cup that covers the thread, while maintaining a connection to atmospheric pressure. Their long non-heating part makes it possible to position the heating coil at the bottom of the container. The surface load of the heating element is 3W/cm², so that it can be used in aqueous liquids as well as in oils and greases. The stainless steel construction of the housing and of the heating element allows use in industrial and food processing environments. In the internal access models the IP69K ingress protection allows the washing with hot water under pressure. The temperature control is done in the center of the heating coil. A safety is installed on the top of the coil, to automatically turn off the heating when the decrease in the level of the heated product puts the coil in contact with the air.

These immersion heaters can be used alone in reheating, with or without insulating jacket, or in addition to heating jackets, in the latter case, they greatly reduce the heating time.

Fitting material: 304 stainless steel cup, dia. 170mm

Enclosure: 125 mm x 125 mm, 85mm height, 304 stainless steel. Silicone gasket. Stainless steel cover screws.

Ingress protection class with outside access: IP54

Ingress protection class with inside access: IP69K

Temperature control: by 30-90°C (85-195°F) bulb and capillary thermostat. Other temperature ranges available. See options hereunder.

Dry run safety: By manual reset bulb and capillary thermostat, fail safe, controlling the heating element surface temperature

Cable gland: M25, PA66.

Thermowell: Two thermowells in AISI304, dia.10 mm x 8.4mm for temperature control and dry run safety.

Power supply connection: Rubber insulated cord, 3x1.5mm², with euro plug. UI plug on request.

Immersion zone: 800mm.

Surface load: 3 W/cm², others values on request.

Voltage: Single pole 230V

Standard equipment:

- Adjustable thermostat
- Large size (dia. 16mm) green and red LED pilot lights, on the enclosure side
- Dry run manual reset safety: preset at 100°C (212°F).

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Immersion heater for 1000 liters IBC

Variants on request:

- Internal thermostat adjustment and manual reset access under screwed M25 cap.
- Thermostat ranges 4-40°C (40-105°F), 0-60°C (30-140°F) or 30-110°C (85-230°F)
- Other dry-run safety temperature setting.

Main references

With 30-90°C (85-195°F) thermostat external knob , and external manual reset at 100°C (212°F)	With 30-90°C (85-195°F) thermostat internal knob , and internal manual reset at 100°C (212°F)
9SWR2JRT0302680N	9SWR2JRS0302680N

UL plug: replace JRT by JRS

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