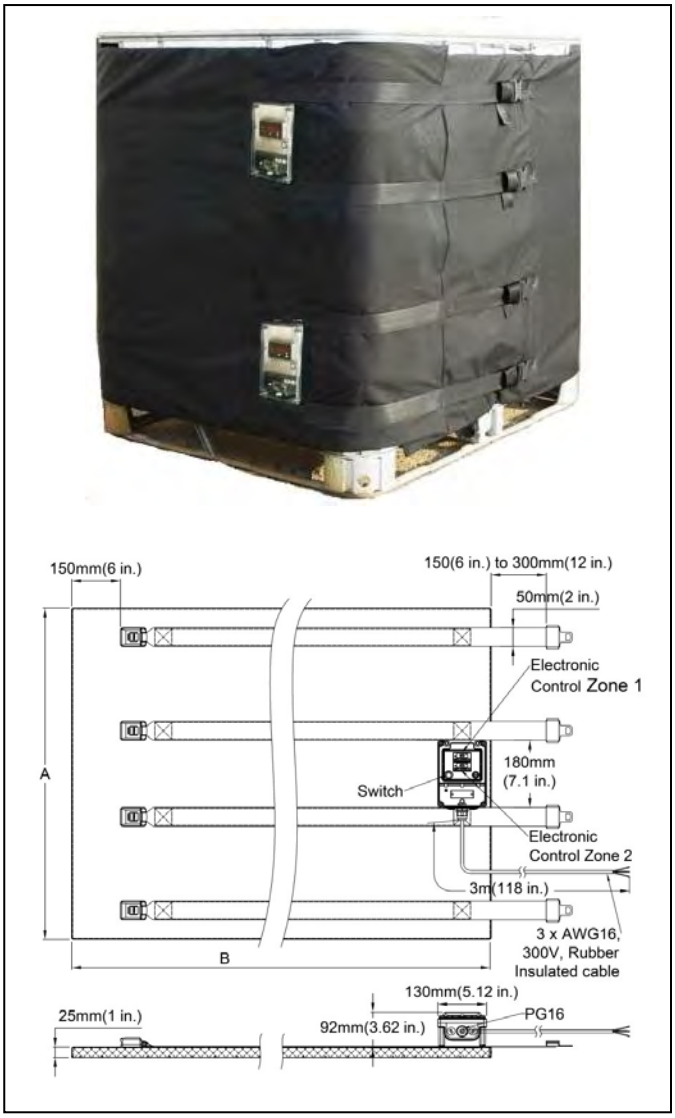
ULTIMHEAT WEB CATALOG

9VJB-Flexible Jacket Heater, with 120°C Electronic temperature control, for 1000 liters IBC

DIMENSIONS



MAIN FEATURES

ULTIMHEAT Flexible jacket heaters are the most effective solution of applying heat to 1000 liters HDPE IBC (Intermediate Bulk Containers). The jacket covers most of the container surface, and heating is provided on the full jacket surface, providing a watt density of ±0.1W/cm², which is 4 to 8 times less than rubber band heaters, and the result is uniform heating without hot spots.

MAIN APPLICATIONS

Flexible jacket drum heaters can be used for frost protection, heat up, temperature maintenance, reduce the viscosity or for melting of soaps, greases, varnishes, oils, surfactants, fats (animal & vegetable), foodstuffs and chemicals etc…. They are thermally insulated to improve thermal efficiency.

TECHNICAL FEATURES

The heating element of the flexible jacket drum heaters is a silicone insulated heating wire mat, protected by a stitched high strength and water resistant PU/Polyester or Teflon/polyester envelope. 25 mm thick, high temperature resistant foam is put between the heater and the external envelope. This insulation foam has a thermal insulation coefficient (Lambda λ) of 0,039W/mK, and therefore its thermal efficiency is about 3 times higher than a usual 10 mm fiberglass insulated jacket. Quick release buckles allow diameter adjustment, and fast installation and removal

Jacket:
-Heated Face: 1000D Teflon coated Nylon fabric.
-External face: 1000D polyurethane coated Nylon fabric.
-Jacket Ingress protection class: IP51
Thermal Insulation: 25 mm NBR-PVC closed cells high temperature resistance foam
Heating Element: Silicone insulated spiral wound resistance element on aluminized fiberglass fabric

Control: Two independent heating zones, each of them controlled by a simple to use electronic thermostat with digital display (1) and set point adjustment (2) from -45°C to+120°C (41~248°F); They use NTC sensors. (Main features: Adjustable differential; 0.1 ° resolution up to 99.9; °C (3) or °F display (4); parameters locking function, Power supply on and output on pilot lights (5).
A 125°C fixed setting high limit thermostat is incorporated inside each heating

Control housing: Two housings**,** IP65, 180 x130 x 80 mm with transparent cover, connection block, cable gland output, built in 15A fuse and external on-off switch
Power Cable: Because they must comply with the local regulation and variable industrial application specifications these heaters are not supplied with electrical power supply cord, but with a connection block in the control housing, suitable for cables up to 3x 6 mm². On customer's request and responsibility, we can supply it with a 3 x 1.5mm² HO7RN-F pre-connected cable.
Fixing: 4 x Full circumference 2" wide nylon straps webbing with quick release adjustable buckles. These straps allow circumference adjustment

Health and Safety standards: The heaters have been designed in compliance with EEC Low Voltage Directive (LVD) and EMC directive 2004/108/EC, and CE marked accordingly. They must be installed in accordance with all local applicable instructions, codes, and regulations.

Warning:

- Power to the heater jacket must be disconnected when the container is empty
- Power to the heater jacket must be disconnected when the container is being filled
- Power to the heater jacket must be disconnected during installation or removal of the heater itself.
- The heater jacket must be operated in a dry environment
- The container must be vented to avoid build up of internal pressure.
- These heaters are not suitable for outdoor use, and must be protected from rain, dust and condensation.
- These heaters are not suitable for use in flammable or explosive areas
- Do not operate heater above safety rated temperature (This temperature depends of the heated liquid, and must be checked before connecting the heater to any power supply)
- Use specified sized heater with same sized container

Options:

- Special size jackets, upon customer specifications
- Insulated lid, 25 mm foam, PU coated Nylon jacket (1000 x 1200 mm)
- Flat insulated jacket heaters are available with dimensions on request. Typical application is large flat surfaces heating at low temperature
- Remote temperature control (remote control boxes)

MAIN REFERENCES

Warning: These heating values have been optimized to apply maximum 0.1W/cm² on the container heated surface. The reduced value of 0.075 W/cm² is recommended for low temperature heating, and or low temperature resistant containers or liquids.

Download drawings at http://www.ultimheat.com/blueink/Jacket-heaterB.html

Reference **	Vol. (Liters)	L mm	l mm	H mm (A)	Flat length mm(B)	w/cm²	w/inch²	Temp. rise in 8h, °C *	Watt	Voltage
9VJBEA04408C3000	1000	1200	1000	1000	4400	0,075	0,64	17	2 x 1650	220/230
9VJBEA04408D4000	1000	1200	1000	1000	4400	0,1	0,64	24	2 x 2200	220/230
9VJBEA04408LID00	Insulated lid	1200	1000	25						

**For products supplied with power supply cable, 3 x 1.5 mm², length 2 meters, replace the 15th character (0) by 4.
*Temperature rise is estimated and for comparison only, for standard containers sizes, filled with water, ambient temperature 20°C, and insulation properly fixed.