

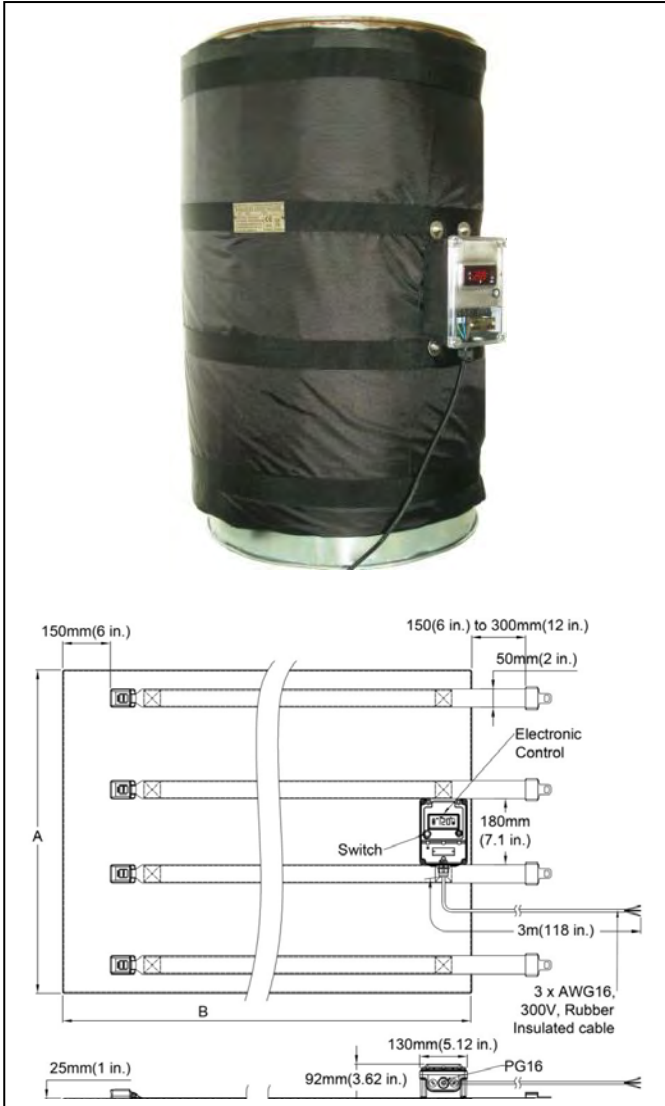


# ULTIMHEAT WEB CATALOG

9VJA-Flexible Jacket Drum Heater, 120°C. Electronic temperature control Models  
P1/2



## DIMENSIONS



**Control:** Electronic temperature control is provided by simple to use digital display (1) and set point adjustment (2) from -45°C to +120°C (41~248°F); It uses a NTC sensor. (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).

## MAIN FEATURES

ULTIMHEAT Flexible jacket heaters are the most effective solution of applying heat to drums. They are available for 30 gallons (±114 liters) and 55/gallons (±208 liter) drums. The jacket covers most of the container surface, and heating is provided on the full jacket surface, providing a watt density of  $\pm 0.1W/cm^2$ , 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  $\lambda$ ) 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 housing:** IP65, 180 x 130 x 80 mm with transparent cover, connection block, cable gland output, built in 10A 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 mm<sup>2</sup>. On customer's request and responsibility, we can supply it with a 3 x 1mm<sup>2</sup> 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

# Made by Ultimheat



# ULTIMHEAT WEB CATALOG

9VJA-Flexible Jacket Drum Heater, 120°C. Electronic temperature control Models  
P2/2



**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
- 2 zones temperature control

### MAIN REFERENCES

**Warning:** These heating values have been optimized to apply maximum 0.1W/cm<sup>2</sup> on the container heated surface. The reduced value of 0.075 W/cm<sup>2</sup> is recommended for low temperature heating, and or low temperature resistant containers or liquids. Select the jacket height to be in contact with the cylindrical part of the drum or pail on its full surface.

Download drawings at <http://www.ultimheat.com/blueink/Jacket-heaterA.html>

References**	Vol. gallon	Vol. liters	Dia. (mm ±12)	Dia. (Inch ± 1/2")	Height A (mm)	Height A (Inch)	Flat length B (mm)	w/cm <sup>2</sup>	w/inc h <sup>2</sup>	Temperature rise in 8h, °C*	Watt	Voltage V
9VJAE50143865000	30	105/120	460	18,1	500	19,7	1430	0,075	0,48	34	650	220/230
9VJAE 60178880000	55	200/220	570	22,4	600	23,6	1855	0,075	0,48	22	800	220/230
9VJAE 751438A1000	30	105/120	460	18,1	750	29,5	1430	0,1	0,64	58	1100	220/230
9VJAE 881788A5000	55	200/220	570	22,4	880	34,6	1855	0,1	0,64	41	1500	220/230
9VJAE 50143565000	30	105/120	460	18,1	500	19,7	1430	0,075	0,48	34	650	110/115
9VJAE 60178580000	55	200/220	570	22,4	600	23,6	1855	0,075	0,48	22	800	110/115
9VJAE 751435A1000	30	105/120	460	18,1	750	29,5	1430	0,1	0,64	58	1100	110/115
9VJAE 881785A5000	55	200/220	570	22,4	880	34,6	1855	0,1	0,64	41	1500	110/115

\*\*For products supplied with power supply cable, 3 x 1 mm<sup>2</sup>, length 2 meters, replace the 15th character (0) by 3.

\*Temperature rise is estimated and for comparison only, for standard containers sizes, filled with water, ambient temperature 20°C, and insulation properly fixed.

Information given for guidance only - Pour information uniquement

# Made by Ultimheat