



C-Joule
Ohmic Heating Range

DATASHEET:

C-Joule LAB 100 Batch Ohmic Heater

The C-Joule LAB 100 is a batch Ohmic Heater that allows the investigation of heating and cooking of a wide range of products. This batch heater comes with a PLC and touch screen control which incorporates data logging for four temperature probes as well as voltage, current and power.



Features

- Equipment is provided with four variable tanks to suit a wide range of conductive products and test conditions.
- Maximum tank capacity volumes: 1.9L, 3.8L, 5.7L and 7.5L
- Maximum working volume: 7000 ml
Minimum working volume: 600 ml
- Fully safety interlocked
- System comes with a paddle for stirring
- Data logging of temperature, voltage, current and power via USB
- Elimination of hot surfaces reduces thermal degradation of products
- Rapid heating achieved
- Precise temperature control to set-point is achieved using our purpose designed control system
- Energy efficient processing with greater than 95% power utilisation

Specifications

Unit height	1492 mm
Unit width	1270 mm
Unit depth	720 mm
Unit weight	160 kg
Electrical power	Requires a 415V 3-phase neutral and earth, 63 Amp, 50 Hz supply. 4m power cable provided
Heater body	Polycarbonate
Electrodes	Titanium with proprietary mixed metal oxide coating
Footings	Flat level surface suitable for equipment weight
Operation	Atmospheric pressure and 0 to 100°C
Fluid	Suitable for fluids or slurry only, material must remain in contact with the electrodes. Fluid must have an electrical conductivity in order to heat, lower conductivity fluids may heat slowly.
Conductivity Range	0.03 S/m to 1.5 S/m

Also Available

C-Joule LAB 150

Pressurised Batch Ohmic Heater



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