



Typical MicroLimpet junction box with 3-way temperature switch (Series 2)

MicroLimpet ELECTRICAL HEATER

A COMPACT ELECTRICAL DEVICE FOR HEATING INDUSTRIAL EQUIPMENT, SUCH AS PUMPS, VALVES, METERS AND FLANGES

The patented **Limpet** heating system consists of a range of compact, intelligent, microprocessor-controlled and waterproof heating modules that can be fitted on a wide range of equipment to provide heat for industrial processes or frost protection. The **MicroLimpet™** is a self-contained heating unit with a range of temperature set points and is attached to the equipment using a profiled aluminium adaptor block that transmits the heat into the workpiece body, as well as acting as a heat storage device. The system is designed to help ensure that in the event that a liquid that requires heating stops flowing through the equipment, it does not become too viscous and block the flow. The **MicroLimpet** can be supplied in either 110Vac or 230Vac versions and can deliver up to 200W.

Applications

- Process industries
- Food & beverage
- Pharmaceutical
- Chemical
- Cosmetics
- Frost protection

Advantages

- No control panel required
- Temperature control to $\pm 5^{\circ}\text{C}$ or $\pm 2^{\circ}\text{C}$.
- Option for temperature adjustment
- Compact design
- IP67 rating

MICROLIMPET FEATURES

The main features of the **MicroLimpet** heating system are as follows:

Operation:

- Adjustable temperature range up to 250°C. For temperatures above 120°C, contact the manufacturer.
- 110 / 230 Volts AC; up to 200W power output.
- 3 connection options (conduit, gland or Phoenix).
- Two through-body tubes into which M5 screws are inserted for securing unit to workpiece or adaptor block.
- An insulated jacket is essential for maximum performance and even temperature distribution.

Temperature Control:

The **MicroLimpet** is available in three different versions:

- Series 1, in which the desired product temperature (from 25°C to 250°C) is specified by the user and set by the factory.
- Series 2, in which 2 temperatures (from 25°C to 250°C) are specified by the user. The unit is supplied with a separate junction box with a 3-way rotary switch, so that the user can set the desired temperature (on/off and the desired operating temperatures, normally 20°C apart).
- Series 3, which uses analogue or digital control to provide variable and more accurate temperature control. The unit is supplied with a separate junction box with a suitable controller.

Robust Construction:

- The product is sealed and potted to ensure that all the connections and components are waterproof.
- Robust IP67-rated aluminium case and leads.

Heat Transfer through Profiled Adaptor Block:

- An aluminium adaptor block pre-profiled to fit onto the equipment (user to specify equipment diameter or profile).

TECHNICAL INFORMATION

- Dimensions: 153mm long (excluding connectors) x 40mm wide x 50mm high.
- Voltage: 110VAC or 230VAC.
- Power ratings: Up to 200W.
- Temperature range: 0°C to 250°C.
- Ambient: -30°C to +90°C.
- Temperature control: ±5°C (per set point on the Series 1 & 2) or ±2°C for Series 3.
- Ingress protection: IP67. IP68 upon request.
- Colour: Red.

Limpet

Zero Carbon Thermal Technology

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ORDERING INFORMATION

MicroLimpet

Model	
ML	
	Series
	1
	2
	3
	Code Voltage
	11 110 Vac
	23 230 Vac
	Connections
	Code Type
	C Conduit: standard 50cm
	Internal Sensor
	Code Type
	0 None
	S Yes
	Target Product Temp °C*
	Temp range Series
	1°C 1
	1°C1/°C2 2
ML	3 23 C 0 /50/70 Example

* The target product temperature (Series 1&2) can be one of the following:

30, 40, 50, 60, 70, 80, 120 °C

For higher temperature options please contact supplier.

Cable Connections (non-standard)

Code	Type
C	Conduit: standard 75cm *
P	Phoenix: standard 50cm
	C non-standard length (cm)
	100
	125
	150
	175
	200
	P Extra-long (cm)
	150
C	100 Example

* For conduit the mains cable will be 25cm longer

Adaptor Blocks (excluding OmegaLimpet)

Model	
AB	
	Pipe Diameter
	00 Flat
	50 mm
	76
	80
	100
	120
	Other Custom - Specify diameter in mm
	Length Type
	250 Standard in mm
	Other Custom - Specify diameter in mm
AB	80 250 Example

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