



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

**The Limpet Heating Company**  
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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°C/1°C/2	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		
	250	Standard in mm	
	Other	Custom - Specify diameter in mm	
AB	80	250	Example

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