



OmegaLimpet ELECTRICAL FLANGE HEATER

COMPACT ELECTRICAL FLANGE HEATER WITH BUILT-IN CONTROLLER

The patented **Limpet** heating system consists of a range of compact, waterproof heating modules that can be fitted on a wide range of equipment to provide heat for industrial processes or frost protection.

The **OmegaLimpet™** is designed to heat flanges and can be heated either by a **MicroLimpet™** or a **SigmaLimpet™**, both of which are self-contained heating units. The MicroLimpet can be supplied with a range of temperature set points and the SigmaLimpet is an accurate, intelligent, microprocessor-controlled unit. Both are attached to the flange via a profiled aluminium adaptor block that transmits the heat into the flange and neighbouring equipment, 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 flange, it does not become too viscous and block the flow. The **OmegaLimpet** 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 $\pm 2^{\circ}\text{C}$.
- Compact design
- IP67 rating
- Low power consumption

OMEGALIMPET FEATURES

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

Operation:

- 110 / 230 Volts ac; up to 200W power output.
- Temp range up to 200°C. For temperatures greater than 100°C, contact the manufacturer.
- An insulated jacket is essential for maximum performance and even temperature distribution.

Heater Options:

The **OmegaLimpet** is available with three different heater options:

- MicroLimpet Series 1, in which the desired product temperature (from 25°C to 200°C) is specified by the user and set by the factory.
- MicroLimpet Series 2 in which 2 temperatures (from 25°C to 200°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).
- MicroLimpet 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 heaters are sealed and potted to ensure that all the connections and components are waterproof.
- Robust IP67-rated aluminium cases and power leads.

Heat Transfer through Profiled Adaptor Block:

- A range of aluminium adaptor blocks are available and profiled to fit a wide range of flanges up to 300mm O.D.
- The O.D. should be specified. Providing a circumference measurement is also helpful.
- For O.D.s larger than 250mm, two heaters will be required and for O.D.s larger than 300mm, please contact the supplier.

TECHNICAL INFORMATION

- Heater dimensions: 153mm long (excluding connectors) x 40mm wide x 50mm high.
- Voltage: 110Vac or 230/240Vac.
- Power rating: up to 62W (with Series 2 or 3 MicroLimpet), 120W (Series 1 MicroLimpet).
- Temperature range: 0°C to 200°C.
- Ambient: -30°C to +90°C.
- Temperature control: $\pm 5^\circ\text{C}$ (per operating temperature on the MicroLimpet Series 1 & 2) or $\pm 2^\circ\text{C}$ with a MicroLimpet Series 3.

Limpet

Zero Carbon Thermal Technology

The Limpet Heating Company Limited
Registered Office: 9 Thorne Road
Doncaster, DN1 2HJ
United Kingdom

ORDERING INFORMATION

OmegaLimpet

Model			
OL			
Heater			
ML1	MicroLimpet Series 1		
ML2	MicroLimpet Series 2		
ML3	MicroLimpet Series 3		
	Code	Voltage	
	11	110 Vac	
	23	230 Vac	
	Connections		
	Code	Type	
	C	Conduit: standard 50cm	
	Target Product Temp °C*		
	Temp rang Model		
	/°C		Series 1
	/°C1/°C2		Series 2

OL	ML3	11	C	/50/70	Example
----	-----	----	---	--------	---------

OL	ML3	11	C	/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
G	Gland: standard 1m
C or G optional lengths (m)	
1.0	
1.5	
2.0	
3.0	
4.0	
P Extra-long (cm)	
150	

C	100	Example
---	-----	---------

* For conduit the mains cable will be 20cm longer

Adaptor Blocks

Model			
OLB			
Spec			
DIN			
BS			
ANSI			
Flange O.D. *			
/100 to 300 mm (please specify)			

OLB	DIN	/165	Example
-----	-----	------	---------

* For O.D.s greater than 250mm, two heaters are required

* For larger size flanges, please contact supplier

Tel: +44 (0) 7837 337570
E-mail: sales@limpetheating.com
www.limpetheating.com