

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 TM is designed to heat flanges and can be heated either by a MicroLimpet TM or a SigmaLimpet TM, 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 ±5°C or ±2°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.

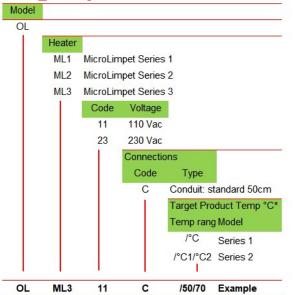
TECHNICAL INFORMATION

- 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 Micro-Limpet), 120W (Series 1 MicroLimpet).
- Temperature range: 0°C to 200°C.
- Ambient: -30°C to +90°C.
- Temperature control: ±5°C (per operating temperature on the MicroLimpet Series 1 & 2) or ±2°C with a MicroLimpet Series 3.



ORDERING INFORMATION

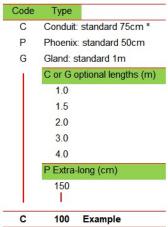
OmegaLimpet



* The target product temperature (Series 1&2) can be one of the following: 30, 40, 50, 60, 70, 80, 120 °C

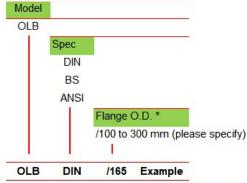
For higher temperature options please contact supplier.

Cable Connections (non-standard)



^{*} For conduit the mains cable will be 20cm longer

Adaptor Blocks



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

^{*} For larger size flanges, please contact supplier