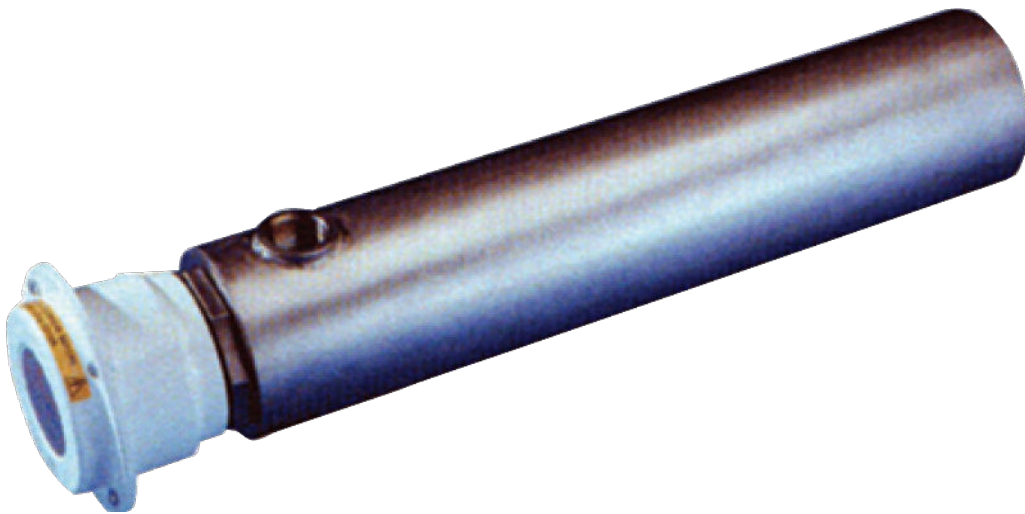


## MLH Mini Line Heaters

The range of mini line heaters consist of a screw plug or flanged type immersion heater mounted in a thermally insulated heating vessel, and is designed to efficiently transfer heat to a flowing medium (liquid or air).

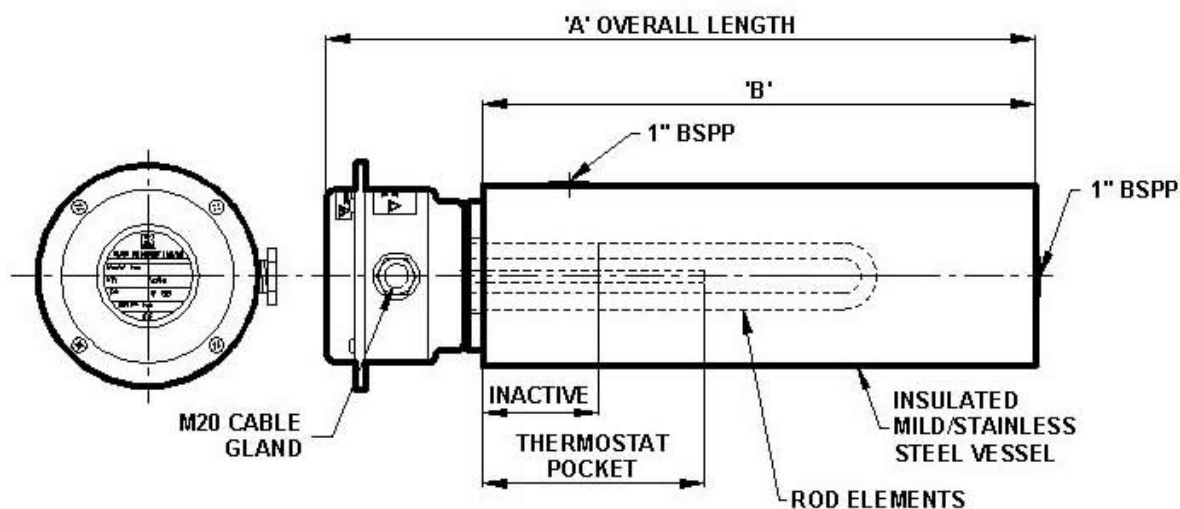


### FEATURES

- Weatherproof protected to IP66
- Choice of built in process temperature sensors and externally adjustable option
- Mild steel or 316 stainless steel vessel
- Standard range of high quality Incoloy or stainless steel rod-type elements, designed for water or withdrawable ceramic core elements, designed for oil
- Maximum allowable working pressure up to 10 barg/145 psig, subject to design parameters
- Designed for both horizontal and vertical installation (if mounted vertically, terminal box must be located at the bottom)

### TYPICAL APPLICATIONS

- **Frost protection:** Pre-start systems for water cooled engines, fire extinguishing equipment, oil sump heating
- **Fuel oil heating:** Pre-heating to pumping viscosity
- **Heat transfer oils:** Moulds, dies and platens, closed loop systems for bitumen, etc
- **Water heating:** Wash rooms, industrial washing equipment, hot water storage tanks



| Model  | Loading (kW) | Dimension A (mm) | Dimension B (mm) |
|--------|--------------|------------------|------------------|
| MLH1S  | 1            | 578              | 475              |
| MLH2S  | 2            | 578              | 475              |
| MLH3S  | 3            | 578              | 475              |
| MLH6S  | 6            | 578              | 475              |
| MLH9S  | 9            | 578              | 475              |
| MLH3L  | 3            | 1028             | 925              |
| MLH6L  | 6            | 1028             | 925              |
| MLH9L  | 9            | 1028             | 925              |
| MLH12L | 12           | 1028             | 925              |

## Note:

- 475mm Vessel to have 1" BSP Inlet and Outlets
- 925mm Vessel to have 1½" BSP Inlet and Outlets
- 1" BSP Available on requested for 925mm vessels

|                           |                                                                                                                                                                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cladding</b>           | Coated mild steel or 304 stainless steel                                                                                                                                                                                                                  |
| <b>Controls</b>           | A control thermostat is fitted as standard                                                                                                                                                                                                                |
| <b>Design Code</b>        | Sound Engineering Practice (SEP)                                                                                                                                                                                                                          |
| <b>Elements</b>           | High quality nickel chrome resistance wire compacted in magnesium oxide insulating powder and sheathed in corrosion resistant Incoloy 825/800, 316L stainless steel, withdrawable ceramic core elements housed in mild steel or 316L stainless steel tube |
| <b>Insulation</b>         | Mineral wool                                                                                                                                                                                                                                              |
| <b>Pressure</b>           | Maximum allowable working pressure up to 10 barg/145 psig subject to design parameters                                                                                                                                                                    |
| <b>Thermostat Pockets</b> | One stainless steel pocket brazed to boss                                                                                                                                                                                                                 |
| <b>Vessel</b>             | Mild steel or stainless steel                                                                                                                                                                                                                             |
| <b>Voltage</b>            | Standard units are normally designed for 220V to 254V (1 phase) or 380 to 440V (3 phase)                                                                                                                                                                  |