

**ORION**  
INSTRUMENTS

A  Magnetrol Company

**EXTREME TEMPERATURE ACCESSORIES  
FOR USE WITH MAGNETIC LEVEL INDICATORS**



## DESCRIPTION

Custom fabricated insulation blankets and heat tracing options may be utilized to maintain process temperatures in external chambers and/or to provide protection to plant personnel against injury due to contact with extremely hot or cold equipment. Steam tracing or electrical heat tracing may be used with or without insulation to ensure that the media within the external chamber is kept at a constant elevated temperature.

## FEATURES

- Cryogenic insulation for applications from +32° to -320° F (0° to -196° C)
- High temperature insulation for applications up to +1000° F (+538° C)
- Cryogenic insulation is polyurethane with vapor barrier
- Cryogenic insulation available with smooth aluminum outdoor liner
- High temperature insulation is weather resistant silicone cloth
- All insulation is custom made for each instrument
- Steam tracing is all stainless steel tubing
- Electric heat tracing available with fixed-point or adjustable thermostat

## APPLICATIONS

- Liquid natural gas
- Feedwater heaters
- Liquid petroleum gas
- Refrigeration liquids
- Condensers
- Personnel protection

## SPECIFICATIONS

### CRYOGENIC INSULATION

|                           |  |
|---------------------------|--|
| Process temperature range | +32° to -320° F (0° to -196° C)  |
| Jacket material           | Polyurethane modified polyisocyanurate with all service jacket vapor barrier |
| Liner material            | Outdoor 0.016" smooth aluminum jacket with vapor barrier                     |
| Insulation thickness      | 2" or 4"   |
| Insulation seal           | Non-breathing moisture resistant mastic                                      |
| Jacket seal               | Weather resistant caulk  |
| Compatible instruments    | Atlas®, Aurora®, and Gemini® MLIs  |

### HIGH TEMPERATURE INSULATION

|                           |  |
|---------------------------|--|
| Process temperature range | +1000° F (+538° C)   |
| Jacket material           | Weather resistant silicone cloth   |
| Liner material            | Weather resistant silicone cloth to +500° F (+260° C)<br>Weather resistant aluminized silicone cloth above +500° F (+260° C) |
| Insulation thickness      | ½", 1", or 2"  |
| Fasteners                 | Velcro® straps (quilting pins optional)  |
| Compatible instruments    | Atlas, Aurora, and Gemini MLIs   |

### STEAM HEAT TRACING/FROST PROTECTION

|                        |  |
|------------------------|--|
| Temperature range      | To +212° F (+100° C)                     |
| Steam connections      | Two ¾" × 0.035 wall tubing ends standard |
| Tubing material        | 304 stainless steel                      |
| Compatible instruments | Atlas, Aurora, and Gemini MLIs           |

### ELECTRIC HEAT TRACING

|                                    |   |
|------------------------------------|---|
| Thermostat                         | Fixed-point or adjustable bulb-type                                 |
| Fixed-point available temperatures | +50° F, +60° F, +75° F, +105° F, or +200° F                         |
| Adjustable temperature ranges      | To +400° or +800° F (+204° or +427° C)                              |
| Voltages                           | 120, 208, 240, 277, or 480 VAC                                      |
| Power                              | 3, 5, 8, or 12 watts  |
| Cable material                     | Stainless steel braid with or without TFE jacket, mineral insulated |
| Options                            | Other options and types of heat tracing available upon request      |
| Compatible Instruments             | Atlas, Aurora, and Gemini MLIs                                      |



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