

Thermo-Trex® Heat Trace Assembly

- Freeze Protection from -40°F (-40°C)
- Heater Output at 32°F (0°C); 5 Watts/Ft
- 120 V
- Low Temp Process Maintenance up to 150°F (66°C)

The Thermo-Trex® Heat Trace Assembly consists of a self-regulating heating cable, power cord and a National Electrical Manufacturers Association (NEMA) connection. Specifically designed for freeze protection of metal pipes, plastic pipes and valves, this assembly is suitable for indoor as well as outdoor use. Installing our heat trace assembly is simple; secure the assembly to the pipe or valve with adhesive tape, cover with *insulation and plug it in. Our plug-and-play heat trace assembly will automatically adjust the heat output based on the surface and ambient temperature. Built for extreme cold temperatures, the Thermo-Trex® Heat Trace Assembly offers freeze protection down to -40°F (-40°C).



FEATURES & BENEFITS

- 1. AUTO ADJUSTED HEAT OUTPUT** – Heat output automatically adjusts based on surface and ambient temperature. Temperature controller is not required.
- 2. SAFE FOR METAL AND PLASTIC** – Safe for use on metal and plastic pipes and valves.
- 3. EASY TO INSTALL** – Pre-assembled power plug and cord provides ease of use and installation.
- 4. SMART PART NUMBERING** – The Smart Part Numbering System can be used to create a custom length fit to your needs.
- 5. REUSABLE** – The heat trace assembly can be used year after year.

APPLICATIONS

- Indoor Pipes & Valves at Risk for Freeze
- Outdoor Pipes & Valves at Risk for Freeze
- De-Icing/Thawing Plastic Pipes & Valves
- De-Icing/Thawing Metal Pipes & Valves

ADDITIONAL INFORMATION

- May be used on metal and plastic pipes and valves, but not to be used on flexible vinyl tubing (such as garden hoses).
- Not intended for use *inside* any pipes.
- Not intended for freeze protection of liquids other than water or for use in classified hazardous locations.
- Do not use on pipes that may exceed 150°F (65°C).
- Install only in accessible locations; do not install behind walls or through floors or ceilings where the cable would be hidden.

NOTE: *Entire installation must be covered with 1/2" or 3/4" fiberglass insulation or equivalent. For pipes with a diameter of less than 2", use 1/2" insulation & pipes with a diameter of 3", use 3/4" insulation.



Please contact your TPC Sales Representative or call us at 800-521-7935 for more information.

INSTALLATION NEEDS TO BE PERFORMED BY A CERTIFIED ELECTRICIAN

NOTE: All items shown in RED need to be installed on site

MA1223980005 is Pre-Assembled with Mark 50AMP Twist Lock Plug to Heat trace kit with mounting pipestandoff and Thermostat Controller

- Mount Assembly Kit MA1223980005 to 3" Diameter Pipe
- Use Fiberglass Straps (2) to mount the 3/4" NPT Pipe Standoff to the 3.0" Diameter Pipe
- Run the 2 lines of Heat Trace Tape down the 3.0" Diameter Pipe at the 4:00 and 8:00 positions using the Fiberglass Tape to fasten it into place
- Attach the Thermostat Controller to the Bottom of the 3.0" Diameter Pipe, at the end of the Heat Trace Tape. Use Fiberglass Tape to hold the flanges into place. (DO NOT USE THE SCREW HOLES TO MOUNT TO THE PIPE)
- Place Caution Labels on the 3.0" Diameter Pipe every 10 feet
- Cover the 3.0" Diameter Pipe with the Closed Cell Pipe Insulation (Comes in 6' sections)

| PART NO. | "X" DIM | GENERAL TOLERANCES (UNLESS SPECIFIED) |
|--------------|------------|---------------------------------------|
| MA1223980005 | 107 Meters | LENGTH DIMENSIONS |
| | | FRACTIONS |
| | | DECIMALS |
| | | ANGLES |
| | | RADIANS |
| | | SLOTS |
| | | HOLE POSITION |
| | | FINISHES |

| WIRENO. NO. | REV. DATA | WIRE TRACKS | MINIMUMS AT CONNECTORS |
|-------------|-----------|-------------|------------------------|
| X | BLACK | WIRE WIRE 1 | RED |
| Y | WHITE | WIRE WIRE 2 | BLACK |
| Z | NC | WIRE WIRE 2 | |
| 0 | SWITCH | SHIELD 1 | CAP OFF ON (NO) |
| | | SHIELD 2 | CAP OFF BROWN LEAD |

NOTE: IF PER WILL OFFICE WITH HEAT TRACE CABLE TO 3/4" PIPE STANDOFF & THERMOSTAT CONTROLLER WILL OFFICE WITH THE THERMOTRACE KIT

| DESCRIPTION | QUANTITY | SPARE QTY |
|-----------------------------|-------------------|-----------|
| 3/4" NPT Pipe Standoff | 2 | 1 |
| Fiberglass Straps | 2 | 1 |
| Fiberglass Tape | 1 Roll | 1 Roll |
| Caution Labels | 10 | 0 |
| End Seal Kit Heat Straps | 1 | 0 |
| Closed Cell Pipe Insulation | 50 x 16 foot each | 0 |
| Thermostat Controller | 1 | 1 |
| Heat Trace Cable | 107 Meters (X2) | 0 |

| DATE | BY | REV | DESCRIPTION | CUSTOMER APPROVAL | DATE |
|----------|------|-----|-----------------|-------------------|------|
| 01/21/10 | RYNT | A | ORIGINAL | | |
| 03/11/16 | ALD | B | PRODUCT UPDATED | | |

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TITLE: HEAT TRACE KIT WITH CONTROLLER PIPE ASSY
 SHEET: 1

Quick-Connects™ Mini
 Quick-Connects™ Micro
 Quick-Connects™ Nano
 Specialty Quick-Connects™
 Ethernet Cable Assemblies
 7 Pin Molded Valve Plug
 DIN Connectors
 Extension Cords
 M23 Connector Assemblies
 Military Connectors
 Rectangular Connectors