

Electric Traced Tubing Series 2256 LTM 2266 LTM

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

Low Temperature Maintenance Self-Regulating Electric Traced Tubing

DEKORON®/Unitherm™ Series 2256/2266 Low Temperature Maintenance (LTM) Self-Regulating Electric Traced Tubing is a thermally insulated fluid transport line for use in applications requiring freeze protection or condensation prevention. Each line is comprised of the following elements:

- Process tube(s)
- Low temperature, self-regulating heating element with tinned copper braid
- Heat-reflecting foil wrap
- Moisture-resistant, non-wicking, inorganic fibrous glass thermal insulation
- Choice of weather protective jacket

The energy-efficient design provides for temperature maintenance of 40°F (4°C) at -40°F (-40°C) ambient. The standard product is available with a 5 watt per foot, 120 VAC or 240 VAC self-regulating heating element.

Bundles in this Series are FM Approved for use in Class I Division 2, Group B, C, and D; Class II Division 2, Group F, and G; and Class III, Division 2 Hazardous areas. **Optional power and control wires can be supplied in FM Approved bundles.** The Constant Power Density Heating Element is approved by CSA for pipe and vessel tracing applications under designations 3A, 3B, 3C, 5A and 5B in Class 1, Division 2, Groups A, B, C and D hazardous locations.

Additional features of this product are:

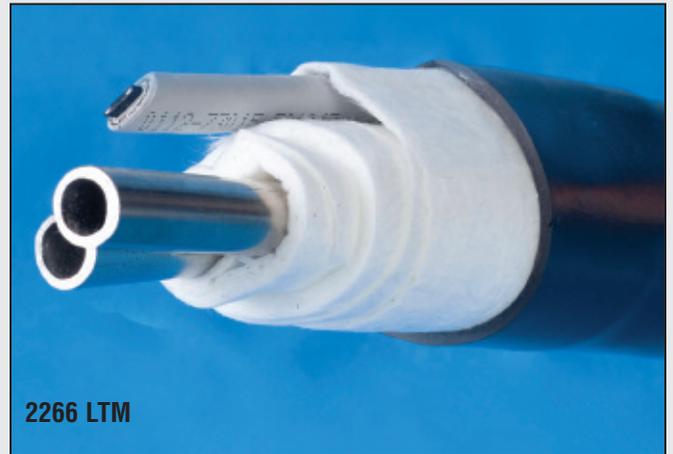
- Pre-insulated and pre-fabricated for installation costs up to 40% lower than field fabrication.
- Pre-engineered for reduced design cost and predictable operational characteristics
- Bundles can contain integral power and signal wires that are pre-approved for use in hazardous locations.
- Bundles are lightweight and easy to bend
- Smaller OD than field fabricated lines means better use of mounting space.
- Maintenance-free – no open seams, no gaps in insulation.
- Consistent and predictable thermal characteristics

Applications for this product:

- Analyzer and instrument lines
- Small diameter process lines
- Impulse lines
- Freeze protect condensate return lines



2256 LTM



2266 LTM

Standard Products in this Series

| Part Number | Tube O.D. | Tube type | Heater |
|-------------|-----------------|-------------------|-----------|
| 2256-20A30 | 1/4 x 0.035 | Wld 316/316L SS | 5/120 LTM |
| 2256-30A30 | 3/8 x 0.035 | Wld 316/316L SS | 5/120 LTM |
| 2256-40A30 | 1/2 x 0.035 | Wld 316/316L SS | 5/120 LTM |
| 2256-27A30 | 1/4 x 0.035 | SMLS 316/316L SS | 5/120 LTM |
| 2256-37A30 | 3/8 x 0.035 | SMLS 316/316L SS | 5/120 LTM |
| 2257-47A30 | 1/2 x 0.035 | SMLS 316/316L SS | 5/120 LTM |
| 2256-41A30 | 1/2 x 0.035 | #122 DHP Copper | 5/120 LTM |
| 2256-44A30 | 1/2 x 0.062 | PFA Fluoropolymer | 5/120 LTM |
| 2266-40B30 | (2) 1/2 x 0.035 | Wld 316/316L SS | 5/120 LTM |
| 2266-47B30 | (2) 1/2 x .035 | SMLS 316/316L SS | 5/120 LTM |

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www.unithermcc.com

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Technical Information

Electrical Specifications

Heater Type Self-Regulating
Heater Insulation Polyolefin
Maximum Heater Exposure Temperature 185°F (85°C)
Circuit Length 270 feet @ 120 VAC
 540 feet @ 240 VAC
Bus Wire Size (AWG) 16
Power Output 5 watts/foot @50°F 120 VAC or 240 VAC

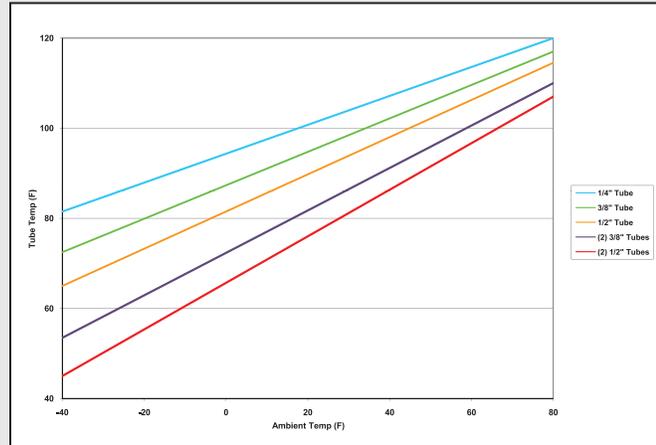
Alternate Voltage 240 VAC self-regulating heaters may be operated at alternative voltages. Here power heater output is compared to product rating.

Adjustment factor
 208 VAC 76%
 277 VAC 128%

Temperature Rating per N.E.C. 500

T5

2256 Self Regulating Heater - LTM



Alternate heating elements are available, see www.unithermcc.com for designs and specifications.

Power connection kits, thermostats, and other accessories see the accessories tab in this catalog or log on to www.unithermcc.com.

Breaker Sizing V. Maximum Circuit Length - feet (metres)

| If started @ | 15A | | 20A | | 30A | |
|--------------|----------|-----------|----------|-----------|----------|-----------|
| | 120V | 240V | 120V | 240V | 120V | 240V |
| @50°F | 230 (70) | 460 (140) | 270 (82) | 540 (165) | 270 (82) | 540 (165) |
| @ 0° F | 150 (45) | 300 (90) | 200 (60) | 400 (122) | 270 (82) | 540 (165) |
| @ -20°F | 130 (40) | 260 (80) | 175 (53) | 345 (105) | 260 (80) | 520 (158) |

Product Specifications 2256/2266 HTM

| Tube O.D. | Standard Wall Thickness*** | Material (1) | ASTM | Working Pressure @200°F | Nominal Bundle O.D. | Nom. Wght Lbs/ft. | Max. Bend Radius |
|-----------|----------------------------|-------------------|-----------|-------------------------|---------------------|-------------------|------------------|
| 1/2" | .035" | #122 DHP Copper | B-68 B-75 | 710 psi | 1.50" | 0.6 | 10" |
| 1/4" | .035" | 316/316L-S/S WLD | A-269 | 4470 psi** | 1.35" | 0.56 | 8" |
| 3/8" | .035" | 316/316L-S/S WLD | A-269 | 2860 psi** | 1.40" | 0.60 | 9" |
| 1/2" | .035" | 316/316L-S/S WLD | A-269 | 2100 psi** | 1.50" | 0.65 | 10" |
| 1/2" | .062" | PFA | D-6867 | 75 psi** | 1.50" | 0.60 | 10" |
| (2) 3/8" | .035" | 316/316L S/S SMLS | A-269 | 3890 psi | 1.65" | 0.72 | 12" |
| (2) 1/2" | .035" | 316/316L S/S SMLS | A-269 | 2860 psi | 1.80" | 0.82 | 12" |

NOTES:

Minimum recommended installation temperature for PVC -25°F (-32°C)

** Values given are for welded, seamless slightly higher

***Heavier wall thickness available upon request

(1) Other tube materials available. See Dekoron/Unitherm electric traced design guide.

Standard Jacket is Black, 105°C lead free, LT-FRPVC

Alternate Jacket Materials – 125°C FR-TPE, FRPE, FR-Urethane

LTM Product Rating 185°F (85°C)

HTM Product Rating 250°F(121°C)