

# Electric Traced Tubing

## IMPERIAL SIZES

Series 2256 HTM  
2266 HTM

DEKORON®  
**Unitherm™**  
Tubing Bundle Experts Since 1962

### High Temperature Maintenance Self-Regulating Electric Heat Trace

Dekorun® Unitherm™ Series 2256/2266 High Temperature Maintenance (HTM) Self-Regulating Electric Traced Tubing is a thermally insulated fluid transport line for use in applications requiring freeze protection, viscosity maintenance, or condensation prevention, where the line may be cleaned or purged using steam or hot gasses. Each line is comprised of the following elements:

- Single or multiple process tube(s)
- High temperature, self-regulating heating element with tinned-copper braid and optional High temperature overjacket
- 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 for up to 100°F at -40°F ambient. The standard product is available with a 5 or 10 watt per foot, 120 VAC or 240 VAC self-regulating heating element. The heating element will withstand exposure to temperatures of up to 366°F allowing the process tubes to be steam purged with 150 psig saturated steam. Bundles in this series can be approved by FM Approvals for use in Class I Division2, Groups B, C, and D; Class II Division 2, Groups F, and G, and Class III Division 2 as well as Class I Zone 2, Group IIB+H<sub>2</sub>hazardous areas.

Alternate heating cables can be specified based on customer requirement and preference. These heating cables will carry specific National Approvals from the manufacturer.

### 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
- Hazardous location approved bundles can contain integral power and signal wires that are pre-approved for use in the specific hazardous area
- 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
- Alternate heating cables available from all major heater manufacturers
- Heater output up to 20 watts/ft available

### Applications for this product:

- Analyzer and instrument lines
- Small diameter process lines
- Impulse lines



### Standard Products in this series:

2256-27AR0	1/4" x .035" Smls 316/316L S/S Tubes; 5 watt/ft 120 VAC High Temperature SR Heater.
2256-37AR0	3/8" x .035" Smls 316/316L S/S Tubes; 5 watt/ft 120 VAC High Temperature SR Heater.
2256-47AR0	1/2" x .035" Smls 316/316L S/S Tubes; 5 watt/ft 120 VAC High Temperature SR Heater.
2266-47BR0	(2) 1/2" x .035" Smls 316/316L S/S Tubes 5 watt/ft 120 VAC High Temperature SR Heater.

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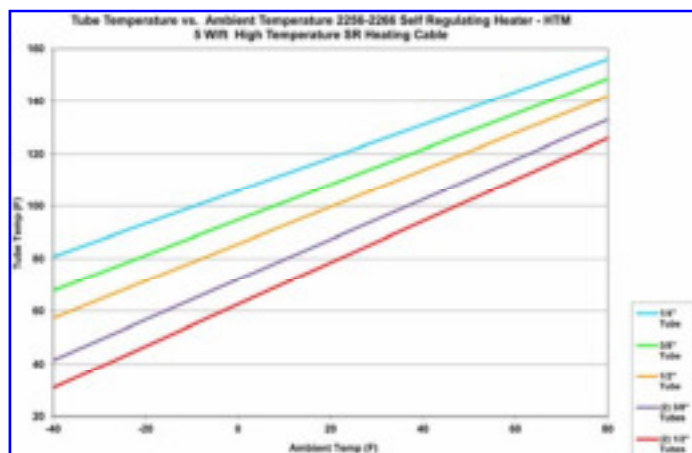
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### Technical Information:

Heater Type	Self-Regulating Parallel Heater
Heater Insulation	Fluoropolymer
Maximum continuous exposure temperature (Power On)	250°F
Maximum continuous exposure temperature (Power Off)	366°F
Circuit Length for 30 A Circuit Breaker	240 feet @ 120 VAC 480 feet @ 240 VAC
Power output	5 Watts/ft @ 50°F and rated voltage
Temperature Rating per NEC 500	T3 (392°F)



Tube Temperature vs Ambient for standard bundles with 5 w/ft HTSR

### Product Specifications 2256/2266 HTM:

Tube OD	Standard Wall Thickness <sup>(1)</sup>	Material <sup>(2)</sup>	ASTM Std	Working Pressure @ 200°F <sup>(3)</sup>	Nominal Bundle OD	Nom. Weight lb/ft	Min Bend Rad
1/4"	0.030"	#122 DHP Copper	B-68-B-75	1270 PSI	1.35"	0.40	8"
3/8"	0.032"	#122 DHP Copper	B-68-B-75	880 PSI	1.40"	0.50	9"
1/2"	0.035"	#122 DHP Copper	B-68-B-75	710 PSI	1.50"	0.60	10"
3/4"	0.049"	#122 DHP Copper	B-68-B-75	660 PSI	1.65"	0.90	12"
1/4"	0.035"	316/316L- S/S WLD	A-269	4470 PSI	1.35"	0.56	8"
3/8"	0.035"	316/316L- S/S WLD	A-269	2860 PSI	1.40"	0.60	9"
1/2"	0.035"	316/316L- S/S WLD	A-269	2100 PSI	1.50"	0.65	10"
1/4"	0.040"	PFA Fluoropolymer	D-6867	75 PSI	1.35"	0.50	8"
3/8"	0.062"	PFA Fluoropolymer	D-6867	50 PSI	1.40"	0.53	9"
1/2"	0.062"	PFA Fluoropolymer	D-6867	75 PSI	1.50"	0.90	10"

#### Notes:

- (1) other wall thickness are available
  - (2) alternate metal and polymer tubing materials are available
  - (3) working pressure based on welded tube, seamless will be higher.
- Contact Dekoron Unitherm for alternate materials

### Circuit Breaker Sizing vs. Maximum Circuit Length - Feet - 5 w/ft HTSR

If Started At	15 A @120 VAC	15 A @240 VAC	20 A @120 VAC	20 A @240 VAC	30 A @120 VAC	30 A @ 240 VAC
50°F	150	250	200	330	240	480
0°F	135	230	180	305	220	440
-40°F	130	220	170	295	210	420

Circuit length will vary depending upon the heater manufacturer selected by the user. Contact Dekoron Unitherm for further information.

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For additional information visit our website:  
**[www.unithermcc.com](http://www.unithermcc.com)**

### Electric Traced Tubing Accessories:

### Item Number

#### Seal-Tite End Boots

Singe Tube  
Dual Tubes

**BOOT-2**  
**BOOT-3**

#### Uniseal Cable Entry Seals

for Bundles up to 1.375"  
for Bundles up to 2.62"

**Seal 1.60**  
**Seal 2.75**

#### Unicut™ Bundle Jacket Cutter

**1631-01001**

#### RTV Silicone End Sealant

3 oz. tube  
10.3 oz. cartridge

**1535-02080**  
**1535-02120**

#### Electrical connection kit with box

**1548-1200J**

#### Mechanical Thermostats

Line Sensing - hazardous locations  
Ambient Sensing - hazardous locations

**1660-13A12**  
**1660-18912**

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