

Electric Traced Tubing

Series 2256 HTM
2266 HTM

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

High Temperature Maintenance Self-Regulating Electric Traced Tubing

DEKORON®/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
- 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 up to 100°F (38°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. The heating element will withstand exposure to temperatures of up to 366°F (185°C) allowing the process tubes to be steam purged with 150 psig saturated steam. 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 Self-Regulating 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



2256 HTM



2266 HTM

Standard Products in this Series

Part No.	Tube O.D.	Tube Type	Heater
2256-27AR0	1/4 x 0.035	316 SMLS SS	5/240
2256-37AR0	3/8 x 0.035	316 SMLS SS	5/240
2256-47AR0	1/2 x 0.035	316 SMLS SS	5/240
2266-47BR0	(2) 1/2 x 0.035	316 SMLS SS	5/240

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Electric Traced Tubing Series 2256 HTM 2266 HTM

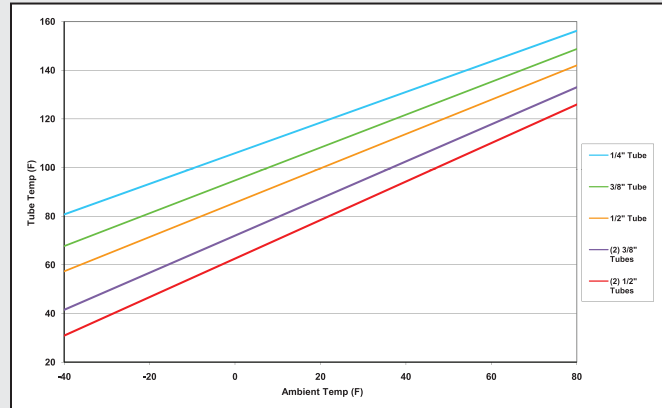


Technical Information

Electrical Specifications

Heater Type	Self-Regulating
Heater Insulation	Fluoropolymer
Maximum Continuous Exposure Temperature (Power-On)	250°F (121°C)
Maximum Exposure Temperature (Power Off)	366°F (185°C)
Circuit Length	240 feet @ 120 VAC 480 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 78% 277 VAC 109%
Temperature Rating per N.E.C. 500	T3

2256 Self Regulating Heater - HTM



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	150 (46)	250 (76)	200 (61)	330 (101)	240 (73)	480 (146)
@ 0° F	135 (41)	230 (70)	180 (55)	305 (93)	220 (67)	440 (134)
@ -40°F	130 (40)	220 (67)	170 (52)	295 (90)	210 (64)	420 (128)

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	1.70"	0.72	12"
(2) 1/2"	.035"	316/316L S/S SMLS	A-269	2860 psi	1.85"	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)