

Electric Traced Tubing

METRIC SIZES

Series 2256 HTM
2266 HTM

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

High Temperature Maintenance Self-Regulating Electric Heat Trace

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 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 38°C at -40°C ambient. The standard product is available with a 16.4 or 32 watt per meter, 120 VAC or 240 VAC self-regulating heating element. The heating element will withstand exposure to temperatures of up to 185°C allowing the process tubes to be steam purged with 10.3 Barg saturated steam. Bundles in this series can be approved by FM Approvals for use in Class I Division 2, 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+H₂ 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 65 watts/m available

Applications for this product:

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



Standard Products in this series:

2256-N7AR0	6mm x 1mm Smls 316/316L S/S Tubes; 16.4 w/m 120 VAC High Temperature SR Heater
2256-P7AR0	8mm x 1mm Smls 316/316L S/S Tubes; 16.4 w/m 120 VAC High Temperature SR Heater
2256-Q7AR0	10mm x 1mm Smls 316/316L S/S Tubes; 16.4 w/m 120 VAC High Temperature SR Heater
2266-Q7BR0	(2) 10mm x 1mm Smls 316/316L S/S Tubes 16.4 w/m 120 VAC High Temperature SR Heater

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

1531 Commerce Creek Boulevard • Cape Coral, Florida 33909
Call Toll Free (800) 633-5015 • Telephone (239) 995-8111 • Fax (239) 995-8027
www.unithermcc.com

Electric Traced Tubing

METRIC SIZES

Series **2256 HTM**
2266 HTM



Technical Information:

Heater Type	Self-Regulating Parallel Heater
Heater Insulation	Fluoropolymer
Maximum continuous exposure temperature (Power On)	121°C
Maximum continuous exposure temperature (Power Off)	185°C
Circuit Length for 30 A Circuit Breaker	73 meters @ 120 VAC 146 meters @ 240 VAC
Power output	16.4 Watts/ft @ 50°F and rated voltage
Temperature Rating per NEC 500	T3 (200°C)



Tube Temperature vs Ambient for standard bundles with 16.4 w/m HTSR

Product Specifications 2256/2266 HTM:

Tube OD	Standard Wall Thickness ⁽¹⁾	Material ⁽²⁾	ASTM Std	Working Pressure @ 93°C	Nominal Bundle OD	Nom. Weight kg/m	Min Bend Rad
6mm	1mm	#122 DHP Copper	B-68-B-75	158 Bar	34 mm	0.58	20.3 cm
8mm	1mm	#122 DHP Copper	B-68-B-75	95 Bar	35 mm	0.73	22.9 cm
10mm	1mm	#122 DHP Copper	B-68-B-75	89 Bar	38 mm	0.87	25.4 cm
16mm	1mm	#122 DHP Copper	B-68-B-75	54 Bar	42 mm	1.31	30.5 cm
6mm	1mm	316/316L– S/S WLD	A-269	373 Bar ⁽³⁾	34 mm	0.81	20.3 cm
8mm	1mm	316/316L– S/S WLD	A-269	269 Bar ⁽³⁾	35 mm	0.87	22.9 cm
10mm	1mm	316/316L– S/S WLD	A-269	210 Bar ⁽³⁾	38 mm	0.95	25.4 cm
6mm	1mm	PFA Fluoropolymer	D-6867	6.5 Bar	34 mm	0.73	20.3 cm
8mm	1mm	PFA Fluoropolymer	D-6867	6.9 Bar	35 mm	0.77	22.9 cm
10mm	1mm	PFA Fluoropolymer	D-6867	5.2 Bar	38 mm	1.31	25.4 cm

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 - Meters - 16.4 w/m 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
10°C	46	76	61	100	73	146
-18°C	41	70	55	93	67	134
-40°C	40	67	52	90	64	128

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



1531 Commerce Creek Blvd
 Cape Coral, FL 33909 USA
 Toll Free: 800.633.5015
 Phone: 239.995.8111
 Fax: 239.995.8027

For additional information visit our website:
www.unithermcc.com

Electric Traced Tubing Accessories: Item Number

Seal-Tite End Boots		
	Singe Tube	BOOT-2
	Dual Tubes	BOOT-3
Uniseal Cable Entry Seals		
	for Bundles up to 35 mm	Seal 1.60
	for Bundles up to 66.5 mm	Seal 2.75
Unicut™ Bundle Jacket Cutter		1631-01001
RTV Silicone End Sealant		
	85 g tube	1535-02080
	292 g cartridge	1535-02120
Electrical connection kit with box		1548-1200J
Mechanical Thermostats		
	Line Sensing - hazardous locations	1660-13A12
	Ambient Sensing - hazardous locations	1660-18912

This document contains empirical and theoretical information provided in good faith by Dekoron Unitherm LLC and does not constitute a warranty or supersede the Standard Warranty as stated in the Terms and Conditions of Sale. All values represent typical performance for the condition given. Variations in local conditions and materials may alter the product performance. It is the sole responsibility of the customer to determine if this product is suitable for their application. This information is proprietary to Dekoron Unitherm and is furnished on the express condition that the information contained herein will not be used for second source procurement, or directly or indirectly in any way detrimental to the interests of Dekoron Unitherm LLC.