

Electric Traced Tubing

METRIC SIZES

Series

2252 CPD
2262 CPD

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

Constant Power Density Electric Traced Tubing

Dekoron® Unitherm™ Series 2252/2262 Constant Power Density (CPD) Electric Traced Tubing is a thermally insulated fluid transport line for use in applications requiring freeze protection, viscosity maintenance, or condensation prevention, where a self-regulating heater is not appropriate.

Each line is comprised of the following elements:

- Single or multiple process tube(s)
- Constant Power Density heating element with tinned-copper braid and optional overjacket
- Heat-reflecting foil wrap
- Moisture resistant, non-wicking, inorganic fibrous glass thermal insulation
- Choice of weather protective jacket

The Constant Power Density Heating Element allows for a wide range of temperature maintenance applications. The standard product is available with a 39 W/m, 120, 208, 240, or 277 VAC heater and will maintain a single process tube above 90°C at ambient temperatures to -40°C.

Bundles in this series are approved by FM Approvals for use in Class I Division 2, Groups B, C, and D; Class II Division 2 Groups F and G; Class III, Division 2, and Class I Zone 2 Group IIB+H₂ hazardous areas. **Optional power and control wires can be supplied in bundles approved for hazardous locations.**

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
- Bundles can contain integral power and signal wires that are pre-approved for use in specific hazardous areas
- 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

Applications for this product:

- Stack gas sampling lines
- Analyzer and instrument lines
- Small diameter process lines
- Impulse lines



Standard Products in this series:

Item No.	Tube OD	Tube Material	Heater
2252-N0A14	6mm x 1mm	WLD 316/316L SS	39/120 CPD
2252-N4A14	6mm x 1mm	PFA Fluoropolymer	39/120 CPD
2252-N7A14	6mm x 1mm	SMLS 316/316L SS	39/120 CPD
2252-P0A14	8mm x 1mm	WLD 316/316L SS	39/120 CPD
2252-P4A14	8mm x 1mm	PFA Fluoropolymer	39/120 CPD
2252-P7A14	8mm x 1mm	SMLS 316/316L SS	39/120 CPD

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Technical Information

Electrical Specifications:

Heater Type	Constant Power Density
Heater Insulation	PFA 600V Rated
Maximum Heater Exposure Temperature (Power On)	230°C
Circuit Length for 25 A Circuit Breaker	79 m or greater
Buss Wire Size	4 mm ²
Power Output	39 Watts/m @ 120 VAC 39 Watts/m @ 208 VAC 39 Watts/m @ 240 VAC 39 Watts/m @ 277 VAC
Maximum Jacket Surface Temperature @ 400°F Tube Temperature and 80°F Ambient	60°C
Temperature Rating per NEC 500	T2C (230°C)

Electric Traced Tubing Accessories: Item Number

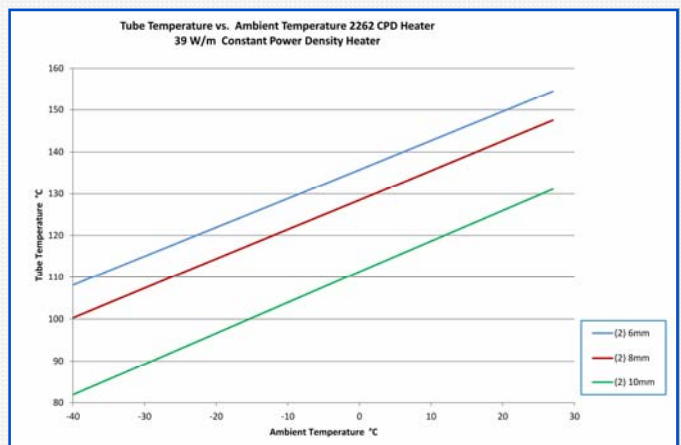
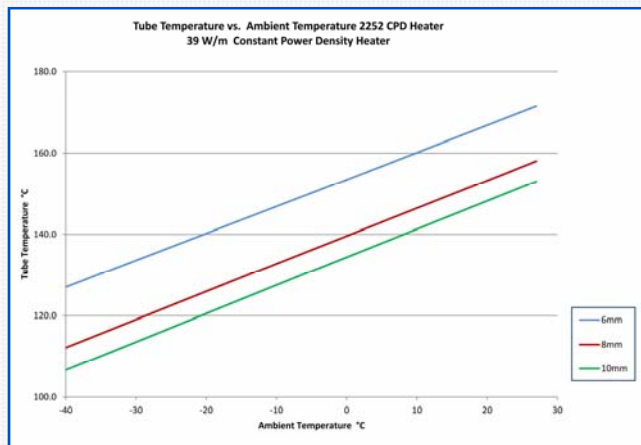
Seal-Tite End Boots	Single Tube Dual Tubes	BOOT-2 BOOT-3
Uniseal Cable Entry Seals for Bundles up to 35mm for Bundles up to 66.5mm		Seal 1.60 Seal 2.75
Unicut™ Bundle Jacket Cutter		1631-01001
RTV Silicone End Sealant	85 g tube 292 g cartridge	1535-02080 1535-02120
Electrical connection kit with box		1548-1200J
Mechanical Thermostats		
Line Sensing - hazardous locations		1660-13A12
- ordinary locations		1660-13A11
Ambient Sensing - hazardous locations		1660-18912
- ordinary locations		1660-18911
Seal Patch Kits		
20 cm x 20 cm Single Self-Sealing Patch		1540-10000
20 cm x 7.6 m Self-Sealing Roll		1540-20000

Product Specifications 2252/2262 CPD:

Tube OD	Standard Wall Thickness ⁽¹⁾	Material ⁽²⁾	ASTM Std	Working Pressure @ 204°C ⁽³⁾	Nominal Bundle OD	Nom. Weight kg/m	Min Bend Rad
6mm	1mm	316/316L- S/S WLD	A-269	158 Bar	34 mm	0.83	8"
8mm	1mm	316/316L- S/S WLD	A-269	95 Bar	35 mm	0.89	9"
10mm	1mm	316/316L- S/S WLD	A-269	89 Bar	38 mm	0.97	10"
6mm	1mm	PFA Fluoropolymer	D-6867	6.5 Bar	34 mm	0.74	8"
8mm	1mm	PFA Fluoropolymer	D-6867	6.9 Bar	35 mm	0.79	9"
10mm	1mm	PFA Fluoropolymer	D-6867	5.2 Bar	38 mm	1.34	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



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Notes:

Standard outer jacket is a 105°C Rated FRPVC. Alternate jacket materials include a 125°C Rated FRTPE, a 65°C Rated FRPE, and a flexible, halogen-free FRTPU.

Alternate tubing material include all 300 Series Stainless Steels that are available in tubing form. Also, most specialty alloys like UNS N06600, UNS N06625, UNS N10276, as well as some duplex stainless steels are available. Contact Dekoron Unitherm for details.

Standard bundles are designed for a maximum core temperature of 204°C. Higher temperature ratings up to 593°C are available. Contact Dekoron Unitherm for details.

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