

Electric Traced Tubing

IMPERIAL SIZES

Series

2E56 LTM
2E66 LTM

DEKORON[®]
Unitherm[™]
Tubing Bundle Experts Since 1962

Low Temperature Maintenance Self-Regulating Electric Heat Trace

Dekoron[®] Unitherm[™] Series 2E256/2E66 Low Temperature Maintenance (LTM) 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)
- Low temperature, self-regulating heating element with tinned-copper braid and fluoropolymer overjacket manufactured by Pentair Thermal Management
- Heat-reflecting foil wrap
- Moisture resistant, non-wicking, inorganic fibrous glass thermal insulation
- Choice of weather protective jacket

The energy-efficient design provides for a minimum temperature maintenance of 40°F at -40°F ambient. The standard product is available with a 5 or 10 watt per foot, 230 VAC Type BTV self-regulating heating element, manufactured by Pentair Thermal Management. The heating element will withstand continuous exposure to 174°F and intermittent exposure to temperatures of up to 185°F.

2E56 and 2E66 Bundles are approved for use in hazardous areas by FM Approvals:

FM10ATEX0032X
FME10.0003X



Ex e IIC T6 Gb II2GD

Ex e II T6 II 2D Ex tb
IIIC IP66 T85C

Applications for this product:

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



2E56LTM



2E66LTM

Additional features of this product are:

- Pre-engineered for reduced design cost and predictable operational characteristics
- 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
- Heater output up to 10 watts/ft available

Standard Products in this series:

2E56-30A20	2E56-37A20	2256-41A20
2E56-40A20	2E56-47A20	2266-40B40
		2266-47B40

Standard products contain welded or seamless Type 316/316L stainless steel - or - seamless #122DHP copper tube(s), a 5w/ft 230 VAC or 10 w/ft 230 VAC low temperature self-regulating heater, non-wicking, low chloride fibrous glass thermal insulation and a weather-protective FRPVC extruded outer jacket.

Alternate tube, heater and jackets available.

Contact Dekoron Unitherm for assistance on selecting the correct products and materials for the application.

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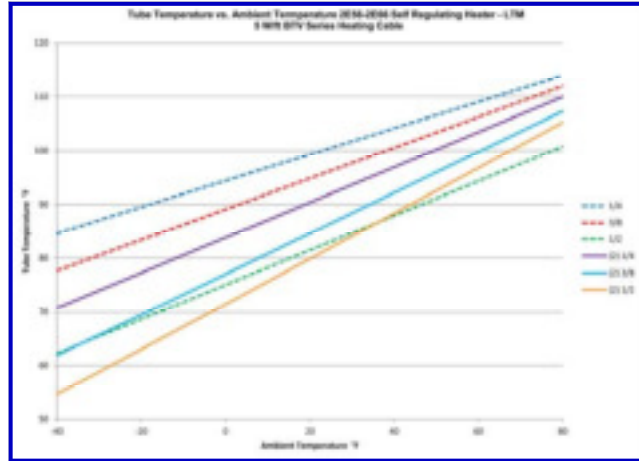
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Technical Information:

Heater Type	Self-Regulating Parallel Heater Type BTV
Heater Insulation	Fluoropolymer
Maximum continuous exposure temperature (Power On)	175°F
Maximum intermittent exposure temperature (Power Off- 1000 hrs)	185°F
Circuit Length for 32 A Circuit Breaker	525 feet @ 230 VAC
Power output	5 Watts/ft @ 50°F and rated voltage
Temperature Rating per NEC 500	T6(212°F)



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

Product Specifications 2E56/2E66 LTM:

Tube OD	Standard Wall Thickness ⁽¹⁾	Material ⁽²⁾	ASTM Std	Working Pressure @ 200°F ⁽³⁾	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	1.45"	0.50	9"
1/2"	0.035"	#122 DHP Copper	B-68-B-75	710 PSI	1.55"	0.60	10"
3/4"	0.049"	#122 DHP Copper	B-68-B-75	660 PSI	1.80"	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	1.45"	0.60	9"
1/2"	0.035"	316/316L- S/S WLD	A-269	2100 PSI	1.55"	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	1.45"	0.53	9"
1/2"	0.062"	PFA Fluoropolymer	D-6867	75 PSI	1.55"	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 LTSR

If Started At	16 A @230 VAC	20 A @230 VAC	25 A @230 VAC	32 A @230 VAC
50°F	525	525	525	525
-4°F	360	460	525	525

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

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 1.375"	Seal 1.60
	for Bundles up to 2.62"	Seal 2.75
Unicut™ Bundle Jacket Cutter		1631-01001
RTV Silicone End Sealant		
	3 oz. tube	1535-02080
	10.3 oz. cartridge	1535-02120
Electrical connection kit with box		1548-16000
Termination Kit		1548-17000
Mechanical Thermostats		
	Line Sensing - hazardous locations	1660-13A12
	Ambient Sensing - hazardous locations	1660-18912



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

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