

Steam Traced Tubing

IMPERIAL SIZES

Series

2211
2213

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

High Temperature Heavy Steam Traced Tubing

Dekoron® Unitherm™ Series 2211/2213 Heavy Steam Traced Tubing is thermally insulated and prefabricated. These performance-engineered products are designed to maintain fluid temperature viscosity in process lines using saturated steam where operating temperatures exceed 400°F. The tubes are cabled to provide solid contact and consistent heat transfer throughout the bundle length.

Each line is comprised of the following elements:

- **Single or multiple metal process tube(s)**
- **Metal steam tracer tube cabled with, and in constant contact with the process tube(s)**
- **Moisture resistant, non-wicking, inorganic fibrous glass thermal insulation sized for maximum operating temperature**
- **Seamless, weather protective jacket, choice of: lead-free low temperature FRPVC; halogen-free FRTPU; flame retardant 125°C Rated FRTPE**

The compact energy-efficient design keeps the outer jacket at or below 170°F while transporting fluids at temperatures up to 750°F

Additional features of this product are:

- **Compact design**
- **Low heat loss**
- **Light, durable, easy to handle**
- **Low maintenance**
- **Employee protection**
- **Easy to install**
- **Cost savings of up to 50% over field fabrication**
- **Consistent and predictable thermal characteristics**

2211/2213 High Temperature Designs:

These products are designed for operation at maximum process temperatures of 500°F, 600°F, and 750°F. Higher temperature designs to 1100°F with certain materials are available. Contact Dekoron Unitherm for details.



Applications for this product:

- **High temperature sampling and instrument lines**
- **Small Diameter high temperature process lines**
- **Transport lines for high viscosity materials that must be kept at elevated temperatures**
- **Impulse lines—D/P Cells**

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

Steam Traced Tubing

IMPERIAL SIZES

Series 2211
2213

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

Product Specifications 2211/2213 High Temperature Heavy Steam Traced Tubing Bundles

Op Temp °F	Process Tube OD (in)	Tracer Tube OD (in)	Bundle OD (in)	Nom. Weight (lbs/ft)	Nom. Heat Loss BTU/Hr-ft	Min. Bend Radius (in)
500	3/8	3/8	1.80	0.73	73	11
	1/2	3/8	1.90	0.81	81	11
	1/2	1/2	2.10	0.95	84	13
	(2) 3/8	3/8	1.85	0.85	77	11
	(2) 1/2	3/8	2.15	1.09	78	13
	(2) 1/2	1/2	2.35	1.23	85	14

Op Temp °F	Process Tube OD (in)	Tracer Tube OD (in)	Bundle OD (in)	Nom. Weight (lbs/ft)	Nom. Heat Loss BTU/Hr-ft	Min. Bend Radius (in)
600	3/8	3/8	1.95	0.79	86	12
	1/2	3/8	2.25	1.00	90	14
	1/2	1/2	2.30	1.05	93	14
	(2) 3/8	3/8	2.00	0.95	91	12
	(2) 1/2	3/8	2.35	1.21	97	14
	(2) 1/2	1/2	2.50	1.32	106	15

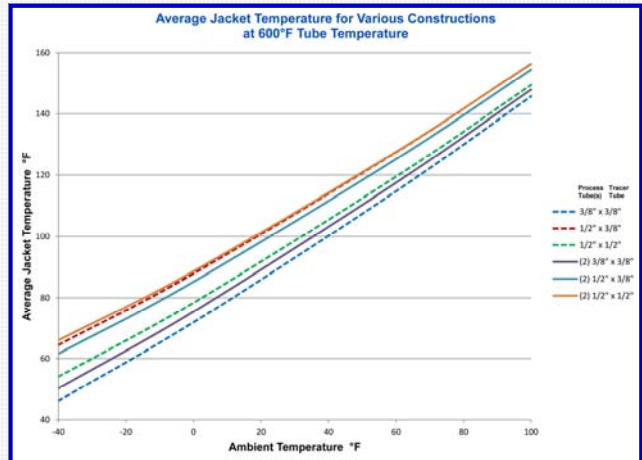
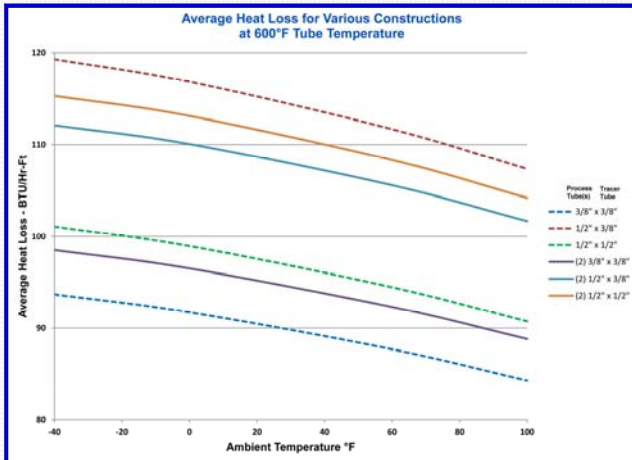
Note: Nominal jacket surface temperature for 2211/2213 bundles is 170°F or less at an ambient temperature of 80°F and a tube temperature of 750°F.

Process and Tracer Tube Specifications:

Op Temp °F	Process Tube OD (in)	Tracer Tube OD (in)	Bundle OD (in)	Nom. Weight (lbs/ft)	Nom. Heat Loss BTU/Hr-ft	Min. Bend Radius (in)
750	3/8	3/8	2.50	1.06	105	15
	1/2	3/8	2.80	1.25	105	17
	1/2	1/2	2.80	1.30	108	17
	(2) 3/8	3/8	2.50	1.20	110	15
	(2) 1/2	3/8	2.85	1.45	113	17
	(2) 1/2	1/2	3.35	1.73	116	20

Tube OD (in)	Tube Wall ¹	Standard Tube Material ²	Tubing Specs (ASTM) ³	Working Pressure ⁴
3/8	0.035"	T316/T316L WLD SS	A-269 / A-213 EAW	5170 psi
3/8	0.049"	T316/T316L WLD SS	A-269 / A-213 EAW	3310 psi
1/2	0.035"	T316/T316L WLD SS	A-269 / A-213 EAW	2430 psi
1/2	0.049"	T316/T316L WLD SS	A-269 / A-213 EAW	1810 psi

- Notes:**
- Standard tube wall thickness shown. Heavier wall thickness available, contact Dekoron Unitherm for details.
 - Seamless stainless steel and most stainless steel alloys, including high-nickel alloys are available, contact Dekoron Unitherm for details.
 - ASTM Standards for standard tube materials shown. Other alloys will be covered by separate Standards.
 - Working pressure on stainless steel tubing shown for welded tubing at 750°F, seamless tubing will be higher. Contact Dekoron Unitherm for details.



To find the Heat Loss of other 2211/13 Steam Traced Tubing Sizes:

Multiply the values show above by the factor for the model number shown:

Tube Temperature	500F	750F
Heat Loss	0.85	1.17

To find the Jacket Temperature of other 2211/13 Steam Traced Tubing Sizes:

Multiply the values show above by the factor for the model number shown:

Tube Temperature	500F	750F
Heat Loss	0.94	1.07

DEKORON®
Unitherm™
Tubing Bundle Experts Since 1962

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

Heat Shrink End Boots



Seal Patch Kit



RTV End Sealant



Entry Seals



Steam Traced Tubing Accessories:

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.