

# Steam Traced Tubing

## METRIC SIZES

Series 2212  
2214

DEKORON®  
**Unitherm™**  
Tubing Bundle Experts Since 1962

### High Temperature Light Steam Traced Tubing

Dekoron® Unitherm™ Series 2212/2214 Light Steam Traced Tubing is thermally insulated and prefabricated. These performance-engineered products are designed to protect process fluids from freezing in process lines using saturated steam where the process operating temperatures exceed 200°C. 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, but insulated from 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 77°C while transporting fluids at temperatures up to 400°C

### 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**

### 2212/2214 High Temperature Designs:

These products are designed for operation at maximum process temperatures of 260°C, 300°C, and 400°C. Higher temperature designs to 600°C 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](http://www.unithermcc.com)

# Steam Traced Tubing

## METRIC SIZES

Series 2212  
2214

**DEKORON®**  
**Unitherm™**  
Tubing Bundle Experts Since 1962

### Product Specifications 2212/2214 High Temperature Heavy Steam Traced Tubing Bundles

Op Temp °C	Process Tube OD (mm)	Tracer Tube OD (mm)	Bundle OD (mm)	Nom. Weight (kg/m)	Nom. Heat Loss W/m	Min. Bend Radius (cm)
260	10	10	53	1.13	71	33
	12	10	58	1.34	114	36
	12	12	61	1.58	116	36
	(2) 10	10	60	1.37	120	36
	(2) 12	10	62	1.73	113	38
	(2) 12	12	70	1.93	120	41

Op Temp °C	Process Tube OD (mm)	Tracer Tube OD (mm)	Bundle OD (mm)	Nom. Weight (kg/m)	Nom. Heat Loss W/m	Min. Bend Radius (cm)
300	10	10	61	1.34	82	36
	12	10	67	1.70	127	41
	12	12	70	2.31	129	41
	(2) 10	10	64	1.58	140	38
	(2) 12	10	71	2.02	129	43
	(2) 12	12	75	2.23	142	46

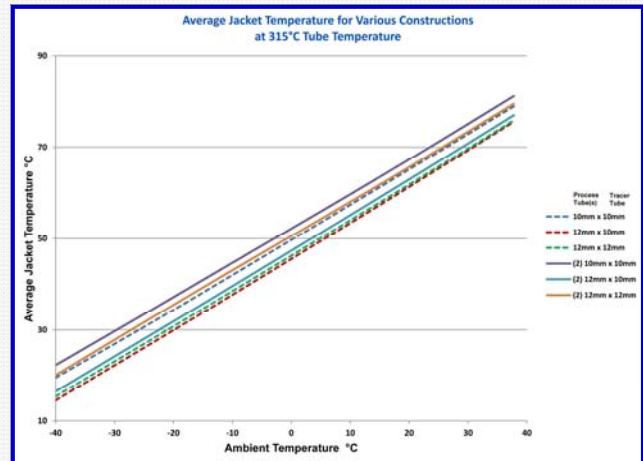
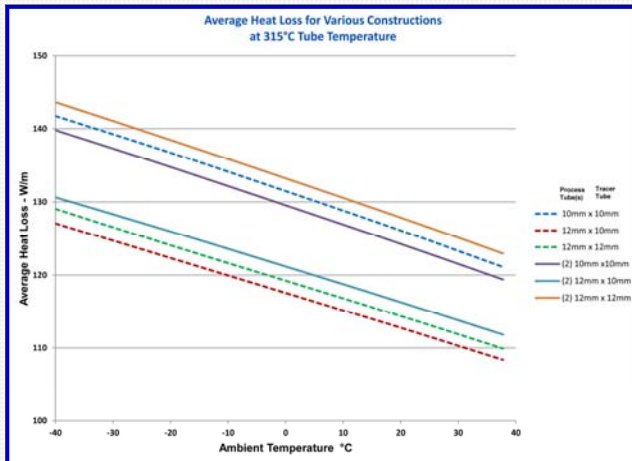
**Note:** Nominal jacket surface temperature for 2212/2214 bundles is 77°C or less at an ambient temperature of 27°C and a tube temperature of 400°C.

Op Temp °C	Process Tube OD (mm)	Tracer Tube OD (mm)	Bundle OD (mm)	Nom. Weight (kg/m)	Nom. Heat Loss W/m	Min. Bend Radius (cm)
400	10	10	75	1.93	85	46
	12	10	79	2.28	147	48
	12	12	83	2.43	149	51
	(2) 10	10	81	2.26	147	48
	(2) 12	10	84	2.62	149	48
	(2) 12	12	86	3.07	152	51

### Process and Tracer Tube Specifications:

Tube OD (in)	Tube Wall <sup>1</sup>	Standard Tube Material <sup>2</sup>	Tubing Specs (ASTM) <sup>3</sup>	Working Pressure <sup>4</sup>
10	1mm	T316/T316L WLD SS	A-269 / A-213 EAW	350 Barg
10	1.2mm	T316/T316L WLD SS	A-269 / A-213 EAW	225 Barg
12	1 mm	T316/T316L WLD SS	A-269 / A-213 EAW	165 Barg
12	1.2mm	T316/T316L WLD SS	A-269 / A-213 EAW	125 Barg

- 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 400°C, seamless tubing will be higher. Contact Dekoron Unitherm for details.



### To find the Heat Loss of other 2212/14 Steam Traced Tubing Sizes:

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

Tube Temperature	260°C	400°C
Heat Loss	0.87	1.12

### To find the Jacket Temperature of other 2212/14 Steam Traced Tubing Sizes:

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

Tube Temperature	260°C	400°C
Heat Loss	0.99	1.02

**DEKORON®**  
**Unitherm™**  
Tubing Bundle Experts Since 1962

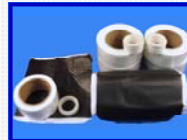
1531 Commerce Creek Blvd  
Cape Coral, FL 33909 USA  
Toll Free: 800.633.5015  
Phone: 239.995.8111  
Fax: 239.995.8027

For additional information visit our website:  
[www.unithermcc.com](http://www.unithermcc.com)

#### Heat Shrink End Boots



#### Seal Patch Kit



#### RTV End Sealant



#### Entry Seals



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.