

# Light Steam Traced Tubing

METRIC SIZES

Series 2202  
2204

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

## Light Steam Traced Tubing Bundles

Dekoron® Unitherm™ Series 2203 and 2204 Light Steam Traced tubing bundles are designed to protect a process fluid from freezing at ambient temperatures to  $-40^{\circ}\text{C}$  using saturated steam.

Each bundle consists of:

- Single or multiple pre-insulated metal or polymer process tube(s)
- Pre-insulated metal steam tracer tube cabled with, and in constant contact with the process tube(s)
- Moisture resistant, non-wicking, inorganic fibrous glass thermal insulation
- Seamless, weather protective jacket, choice of:  
lead-free low temperature FRPVC;  
halogen-free FRTPU;  
flame retardant  $125^{\circ}\text{C}$  Rated FRTPE

Designed for light tracing of process, sampling and impulse lines, Series 2202/2204 bundles are recommended for use in situations where heavy tracing will cause high temperature degradation or boil-off of the process fluids. Highly efficient and compact, these products are designed to limit the jacket temperature to a nominal surface temperature of  $60^{\circ}\text{C}$  or lower at ambient temperatures of  $27^{\circ}\text{C}$  using  $204^{\circ}\text{C}$  (16 BARG) saturated steam.

Maximum temperature rating of Series 2201/2204 is  $204^{\circ}\text{C}$ . Operating at higher temperatures may result in deterioration of the components or changes in operational characteristics.

Higher temperature designs for tracing applications up to  $593^{\circ}\text{C}$  are also available as Series 2212/2214.

## 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

## Applications for this product:

- Analyzer and instrument lines
- Small Diameter process lines
- Impulse lines—D/P Cells



## Standard Products in this Series:

2202-R0AN1	2202-R7AQ0	2204-R7BQ1
2202-R0AQ0	2201-R7AQ1	2204-R7BQ7
2202-R0AQ1	2201-R7AQ1-H0S	2204-R7BQ1-H0S

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## Product Specifications 2202/2204 Light Steam Traced Tubing Bundles

Process Tube OD (mm)	Tracer Tube OD (mm)	Bundle OD (mm)	Nom. Weight (Kg/m)	Nom. Heat Loss W/m	Min. Bend Radius (cm)
6	6	35.6	0.9	38	20
10	10	40.6	1.0	38	25
12	10	43.2	1.2	38	25
(2) 6	10	33.0	1.2	38	20
(2) 10	10	45.7	1.3	38	28
(2) 12	10	48.3	1.5	38	31

**Note:** Nominal jacket surface temperature for 2202/2204 bundles is 60°C at an ambient temperature of 27°C and a tube temperature of 204°C.

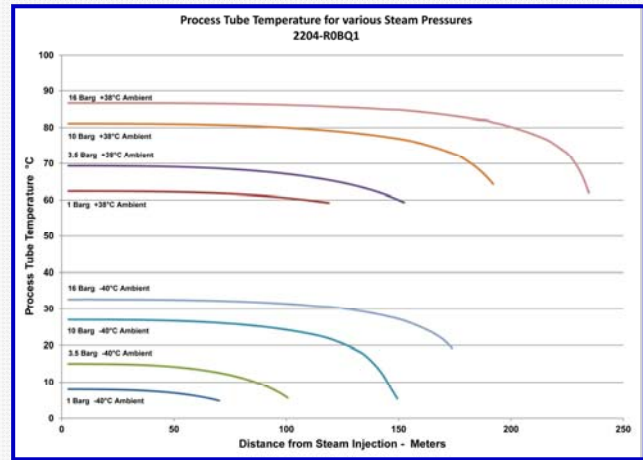
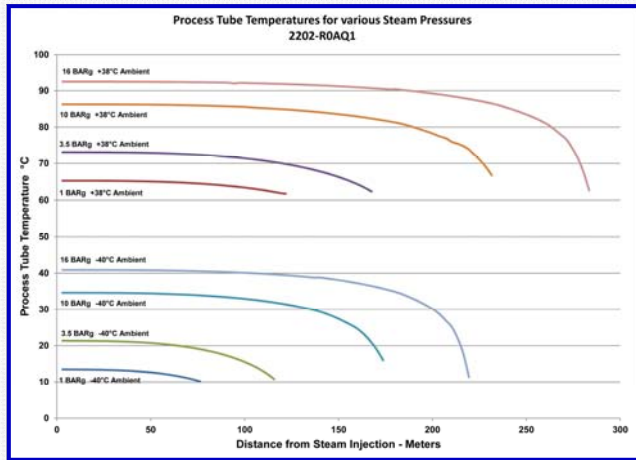
### Process Tube:

Tube OD (mm)	Tube Wall <sup>1</sup>	Standard Tube Material <sup>2</sup>	Tubing Specs (ASTM) <sup>3</sup>	Working Pressure <sup>4</sup>
(1) or (2) 6	1 mm	T316/T316L WLD SS	A-269 / A-213 EAW	346 BARG
(1) or (2) 10	1 mm	T316/T316L WLD SS	A-269 / A-213 EAW	195 BARG
(1) or (2) 12	1 mm	T316/T316L WLD SS	A-269 / A-213 EAW	160 BARG

### Tracer Tube:

Tube OD (in)	Tube Wall <sup>3</sup>	Standard Tube Material <sup>2</sup>	Tubing Specs (ASTM)	Working Pressure <sup>3</sup>
6	0.76 mm	#122 DHP Copper	B-68 / B-75	40 BARG
3/8	0.82 mm	#122 DHP Copper	B-68 / B-75	25 BARG
3/8	0.89 mm	#122 DHP Copper	B-68 / B-75	30 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, seamless tubing will be higher.



### To find performance of other 2202 Steam Traced Tubing Sizes:

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

2202-Q0AQ0 2202-R0AQ0

Tube Temperature	1.01	1
Run Distance	1	1

### To find performance of other 2204 Steam Traced Tubing Sizes:

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

2204-Q0BQ0 2204-R0BQ0

Tube Temperature	1.01	1
Run Distance	1	1



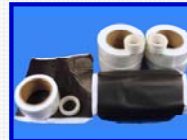
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For additional information visit our website:  
[www.unithermcc.com](http://www.unithermcc.com)

### Heat Shrink End Boots



### Seal Patch Kit



### RTV End Sealant



### Entry Seals



## Steam Traced Tubing Accessories:

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