PRODUCT SPECIFICATIONS

TubeTrace® Type SE/ME

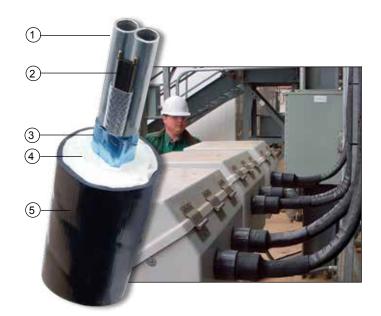
ELECTRICALLY HEATED INSTRUMENT TUBING with **VSX™** Self-Regulating Heat Tracing

APPLICATION

TubeTrace, with "cut-to-length" VSX self-regulating heat tracing, is designed to provide freeze protection or temperature maintenance from 5°C to 149°C for tubing where high temperature exposure capability is possible. VSX withstands intermittent temperature exposures of 232°C.

Self-regulating VSX heat tracing:

- · Varies in response to the surrounding conditions along the entire length of a circuit.
- Lower risk of overheating the tube or product.
- · Installed cost is lower because "cut-to-length" VSX makes end connections easy with minimal waste.
- VSX is approved for use in ordinary (non-classified) areas and hazardous (classified) areas.



RATINGS

VSX	Ratings
Available watt densities	16, 33, 49, 66 w/m @ 10°C
Supply voltages	110-120 or 208-277 Vac
Tube temperature range	5°C to 149°C
Max. exposure temperature ¹ Intermittent power-on Intermittent power-off Continuous power-off	232°C 250°C 204°C
T-rating	T3 200°C

Note

1. This reflects maximum exposure for heater. If bundle jacket is to remain below 60°C in +27°C ambient (in consideration of personnel burn risk) tube temperature must remain below 205°C. Alternative designs to keep jacket below 60°C in higher ambients and/or with higher tube temperatures are available. Contact Thermon.

CONSTRUCTION

- 1 Process tube(s)
- 2 VSX self-regulating electrical heat tracing
- 3 Heat reflective tape
- 4 Non-hygroscopic glass fiber insulation
- 5 Polymer outer jacket (ATP or TPU available)

PRODUCT FEATURES

- · Self-regulating
- · "Cut-to-length"
- Hazardous area approvals

For additional information on VSX and other Thermon heat tracing products and services, visit

www.thermon.com.

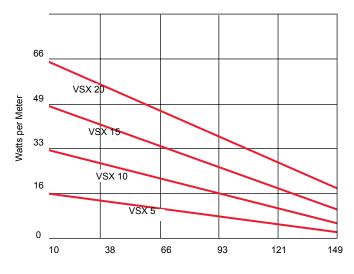
THERMON The Heat Tracing Specialists®

ISO 9001 European Headquarters: Boezemweg 25 • PO Box 205 • 2640 AE Pijnacker • The Netherlands • Phone: +31 (0) 15-36 15 37 Corporate Headquarters: 100 Thermon Dr • PO Box 609 San Marcos, TX 78667-0609 • Phone: 512-396-5801 • 1-800-820-4328 For the Thermon office nearest you visit us at . . . www.thermon.com

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POWER OUTPUT CURVES

The power outputs shown apply to cable installed on insulated metallic pipe (using the procedures outlined in IEEE Standard 515) at the service voltages stated below. For use on other service voltages, contact Thermon.



Pipe Temperature °C

DESIGN TOOLS

Technical Design Information and CompuTrace® -IT computer design program for TubeTrace heated instrument tubing are available online at

www.thermon.com.

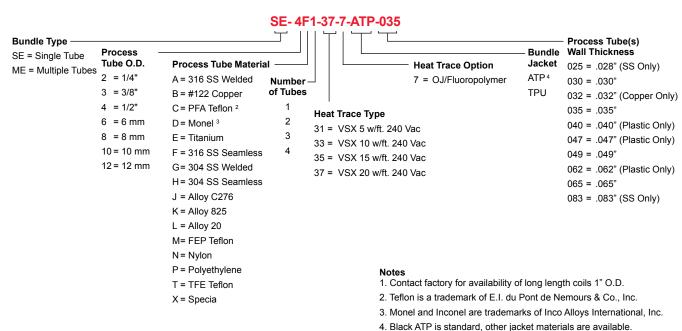
TUBETRACE ACCESSORIES

Sealing the ends of pre-insulated tubing bundles ensures their efficient and reliable performance. A variety of termination kits and accessories are available and can be found on Form CLX0020U.

ELECTRICAL HEAT TRACE ACCESSORIES

Thermon manufactures every type of electrical resistance heat tracing available in the world today. Power connection and termination kits (Form CLX0024U) and a variety of controls are all available for heated instrument tubing applications.

HOW TO SPECIFY



CERTIFICATIONS/APPROVALS



Certificate FM13 ATEX 0052 in accordance with the EU ATEX Directive 94/9/EC





International Electrotechnical Commission IEC Certification Scheme for Explosive Atmospheres FMG 13.0020

BSX has additional hazardous area approvals including:

• DNV • Lloyd's • TIIS • CCE/CSIR • GOST-R Contact Thermon for additional approvals and specific information.



FM Approvals Ordinary and Hazardous (Classified) Locations



Underwriters Laboratories Inc. Hazardous (Classified) Locations