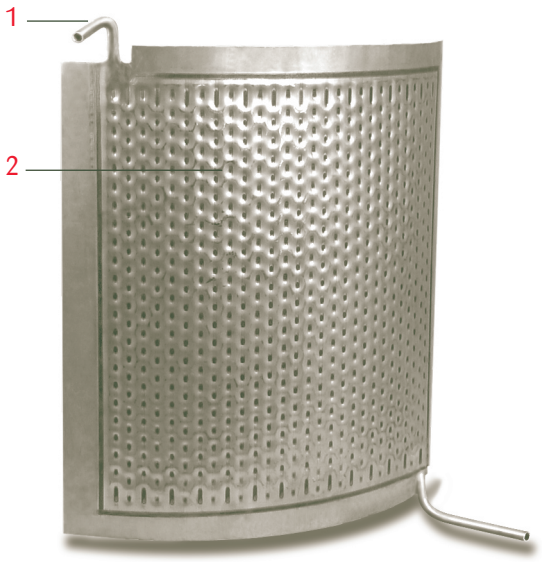
HeetSheet®
Vessel Heating/Cooling System

Product Specifications



Application . . .
HeetSheet tank heating units are constructed of 26 gage type 304 stainless steel, conforming to ASTM A240. The welded waffle style pattern provides multiple flow paths reducing risk of blockage possible with single-flow designs.

For temperatures up to 191°C, a non-hardening heat transfer compound is factory applied to the surface of the HeetSheet unit that contacts the tank wall. This is to eliminate air gaps and optimize heat transfer.

HeetSheet units are available in multiple sizes and are prerolled to conform to the radius of the tank. Stainless steel tubing connections are provided for steam or other heating or cooling media. Customer supplied fittings are used to connect the inlet and outlet tubes to ThermoTube® preinsulated supply and return tubing. ThermoTube is purchased separately.

Ratings . . .
Max. operating temperature ..... 190°C
Minimum operating temperature..... -196°C
Max. recommended pressure..... 1,136 kPa g
Hydrostatic test pressure..... 2,586 kPa g
Heat transfer coefficient ..... HeetSheet unit to tank wall
114-227 W/m²-°C

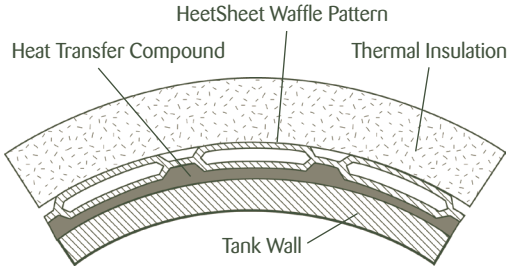
ASME Inspection/Certification . . .
ASME does not require containers of this internal volume and pressure rating to be certified. Specifically, the maximum stored energy in a HeetSheet unit falls well below the limits set by the Code for certification as defined by the following three volume and pressure points:

- 0.14 m³ and 1720 kPa
- 0.08 m³ and 2410 kPa
- 0.04 m³ and 4140 kPa

(See Product Configuration table on reverse side for internal volume of standard HeetSheet units.)

HeetSheet units are designed and fabricated in accordance with the requirements of ASME Section VIII Div 1 Boiler and Pressure Vessel Code but are not inspected and stamped. However, ASME inspection and stamping is available as an option for all HeetSheet sizes upon request.

Construction . . .
1 12 mm. Inlet and Outlet Media Connections
2 Type 304 Stainless Steel Waffle Pattern Panel
3 Factory-Applied Non-Hardening Heat Transfer Compound (see cross section below)



Typical Cross Section

Benefits . . .
- Each installation is based on known and predictable heat transfer coefficients.
- Factory applied non-hardening heat transfer compound provides high heat transfer rates.
- Requires only 1/2 to 1/3 the heating surface area of plate-type coils for like applications.
- Light weight units with factory applied heat transfer compound assure quick installation.
- Used for both heating or cooling applications.
- No cross contamination of heating media and tank/vessel contents.

Notes:
1. Information for design and performance is based upon the use of Thermon heat transfer compounds.

THERMON . . . The Heat Tracing Specialists®
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www.thermon.com

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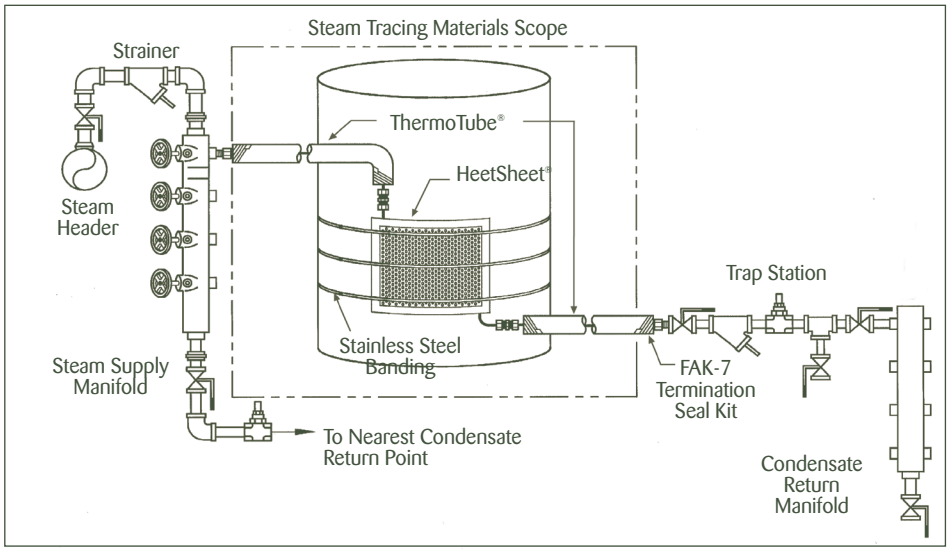
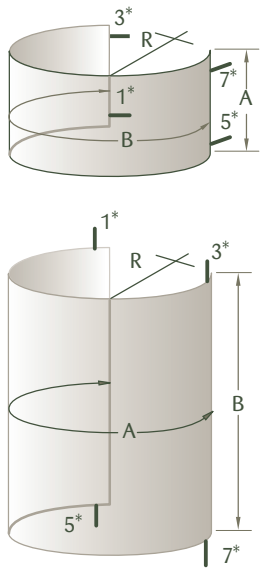
Typical Steam Tracing System[1] . . .

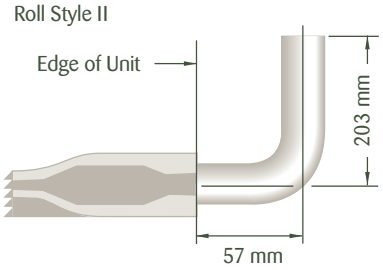


Inlet & Outlet Configurations . . .

Roll Style I



Roll Style II



* Denotes inlet/outlet locations. Inlet and outlet tubes must be located on opposite diagonals only. (Example: inlet/outlet 1 & 7 or 3 & 5)

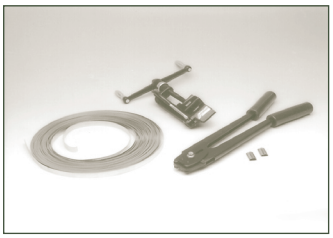
Product Properties[2] . . .

Catalog Number[3]	External Dimensions A x B mm	Nominal Heated Area m^2	Internal Volume fcm^3	Approx. Weight Without Compound kgs	Approx. Weight With Compound kgs
HS-2	610 x 610	0.37	500	2.6	3.5
HS-3	610 x 915	0.55	750	3.9	5.2
HS-4	610 x 1220	0.74	1000	5.2	7.0
HS-6	610 x 1830	1.10	1500	7.8	10.5
HS-8	610 x 2440	1.49	2000	10.4	14.1

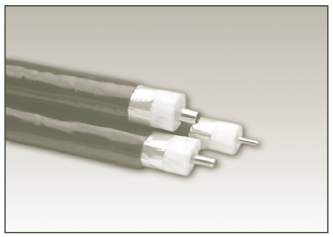
Notes . . .

1. Connections between the steam and condensate headers and the HeetSheet may be accomplished with ThermoTube pre-insulated tubing. ThermoTube is available in a variety of sizes to meet the requirements of the application. For information on ThermoTube pre-insulated tubing, refer to Form TSP0009U.
2. For sizes or product configurations other than those listed, contact Thermon.
3. When ordering HeetSheet units without heat transfer compound, use the NC designation at the end of the catalog number. Example HS-2-NC.
4. Pre-rolled radius of curvature is limited to a minimum of 102 mm for the 26 gage units.

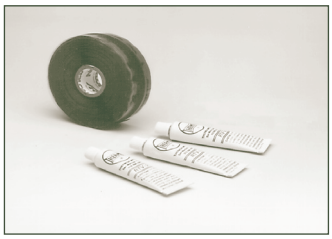
Basic Accessories . . .

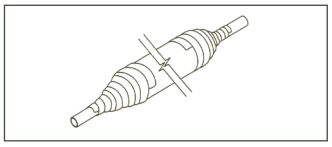


T3SSB . . . stainless steel banding (.50" x .030") used to secure HeetSheet to tank.
C001 . . . banding tool for applying tension to stainless steel banding.
1950A . . . crimping tool for T34PB-CR seals.
T34PB-CR . . . crimp seals for fastening tensioned banding.



ThermoTube . . . pre-insulated tubing used for steam supply and condensate return on steam heating circuits. (ThermoTube can also be utilized to transport other heating or cooling media.)





FAK-7 . . . contains a roll of self-vulcanizing silicone rubber tape and RTV sealant to complete approximately six ThermoTube® terminations.

