



TSR SAMPLE COOLER

Standard Materials

*Compact, efficient sample cooling
for gases and liquids*



TSR SAMPLE COOLER (STANDARD MATERIALS)

Features

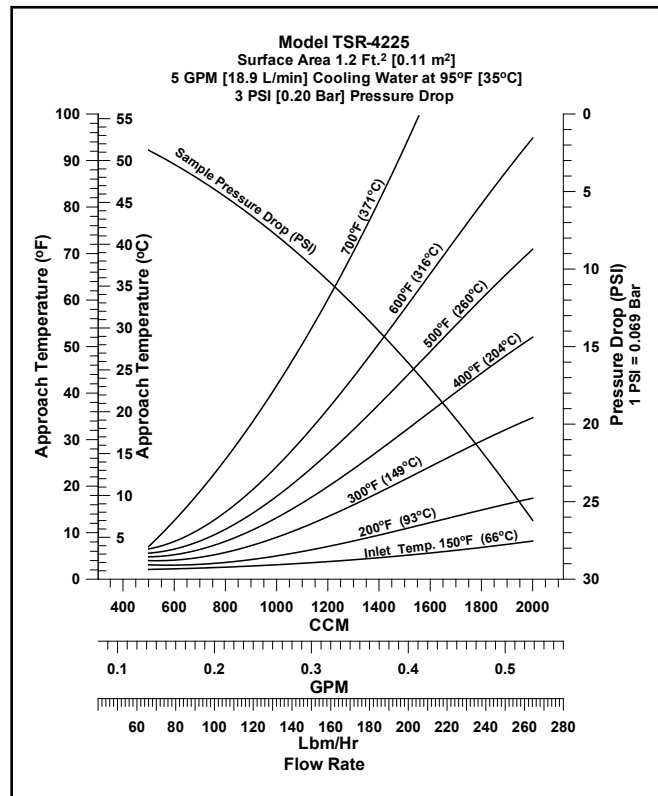
- Single helical coil design
- Wide variety of exotic alloys for corrosion resistance
- Retained shellside gasket reduces re-assembly time
- Formed shell eliminates top shell flange weld interfaces
- Mounting bracket can be installed without removing flange bolts

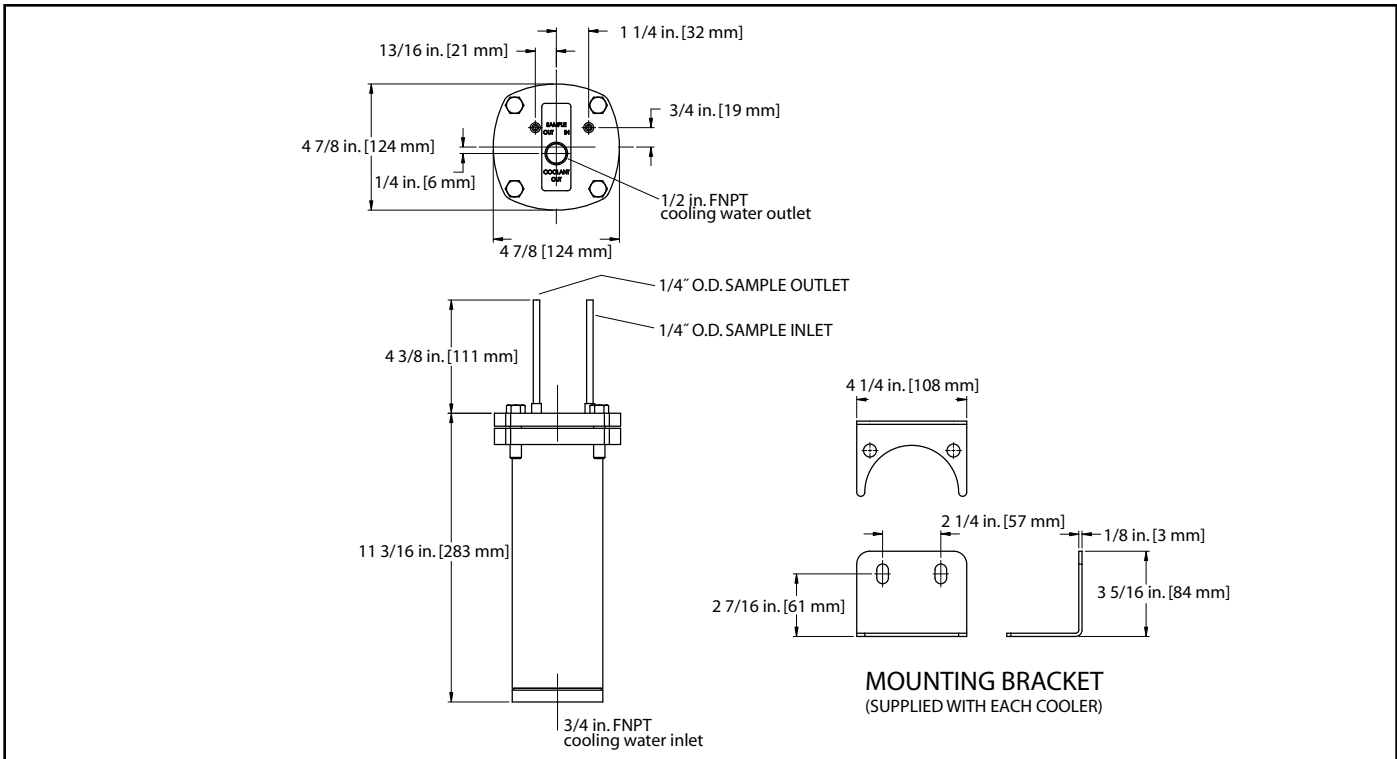
Description

The TSR series sample cooler is a compact sample cooler that provides broad application flexibility through the use of a variety of sample tube materials. Optimal service for flows below 1200 cc/min for single phase heat transfer. Standard tube side materials are 316/316L SS and Alloy (Inconel®) 625. See data sheet 4.8 for special materials available.

NOTE: Not recommended for steam condensing service. See TLR, FLR, FXR series sample coolers for steam applications.

Performance Curve - Water





Specifications – TSR Series

Model No.	Shell Design	Tube Design	Tube Material	Shell Material	Area	Shipping Weight	Part Number
TSR-4225	450 psi @ 650°F 31 bar @ 343°C	5000 psi @ 1000°F 345 bar @ 537°C	316/316L SS 1/4" O.D. x 0.049"AW	304 SS	1.2 ft ² 0.11 m ²	14 lbs 6 kg	7-03952A
TSR-4225U	450 psi @ 650°F 31 bar @ 343°C	4400 psi @ 1000°F 303 bar @ 537°C	316/316L SS 1/4" O.D. x 0.049"AW	304 SS	1.2 ft ² 0.11 m ²	14 lbs 6 kg	7-03952B
TSR-42B5	450 psi @ 650°F 31 bar @ 343°C	5000 psi @ 1100°F 345 bar @ 593°C	Alloy (Inconel®) 625 1/4" O.D. x 0.035"AW	304 SS	1.2 ft ² 0.11 m ²	14 lbs 6 kg	7-03952C
TSR-42B5U	450 psi @ 650°F 31 bar @ 343°C	5000 psi @ 1100°F 345 bar @ 593°C	Alloy (Inconel®) 625 1/4" O.D. x 0.035"AW	304 SS	1.2 ft ² 0.11 m ²	14 lbs 6 kg	7-03952D
TSR-4BB5	450 psi @ 650°F 31 bar @ 343°C	5000 psi @ 1100°F 345 bar @ 593°C	Alloy (Inconel®) 625 1/4" O.D. x 0.035"AW	Alloy (Inconel®) 625	1.2 ft ² 0.11 m ²	14 lbs 6 kg	7-03952E

NOTES:

- U in model number denotes ASME stamped model.
- Canadian Registration Number available for ASME stamped models only. Consult factory for CRN and other options and information.
- Vessels are exempt from CE marking per PED 97/23/EC, TÜV. Vessels are below or equal to the limits set forth in Article 3, Sections 1.1, 1.2, 1.3 and Section 2 as applicable, and are designed and manufactured in accordance with sound engineering practice (meets the general requirements of the ASME Section VIII, Division 1, Boiler And Pressure Vessel Code). Nameplate will bear the name of Sentry Equipment Corp and safety instructions will be included per Article 3, Section 2.

WARNING

It is solely the responsibility of the end-user, through its own analysis and testing, to select products and materials suitable for their specific application requirements, ensure they are properly installed, safely applied, properly maintained, and limit their use to their intended purpose. Improper selection, installation, or use may result in personal injury or property damage.



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QUALITY MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001:2008

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