



SENTRY TSR-STANDARD SINGLE HELICAL TUBE

Sample Coolers

SAMPLE CONDITIONING

The Sentry® TSR sample cooler cools a sample from a process stream. It may seem simple, but it is a uniquely designed small tube in a shell heat exchanger. The sample to be cooled flows through the tube side of the cooler, and the cooling fluid, usually water, flows through the shell side. The cooled sample then is taken to a laboratory for analysis or piped to in-line process instrumentation for continuous monitoring of properties such as conductivity, pH or other chemical constituents.

MODELS

TSR-4225 / TSR-4225U

TSR-42B5 / TSR-42B5U

TSR-4BB5

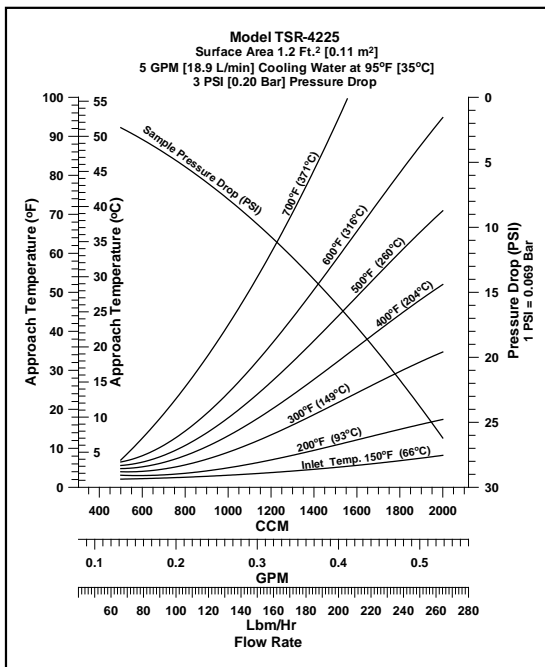
BENEFITS

The Sentry TSR sample cooler is compact and provides broad application flexibility through the use of a variety of sample tube materials. It offers optimal service for flows below 1200 cc per minute for single phase heat transfer. Standard tube side materials are 316/316L stainless steel and Alloy 625. See the special materials information sheet for other materials available.



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

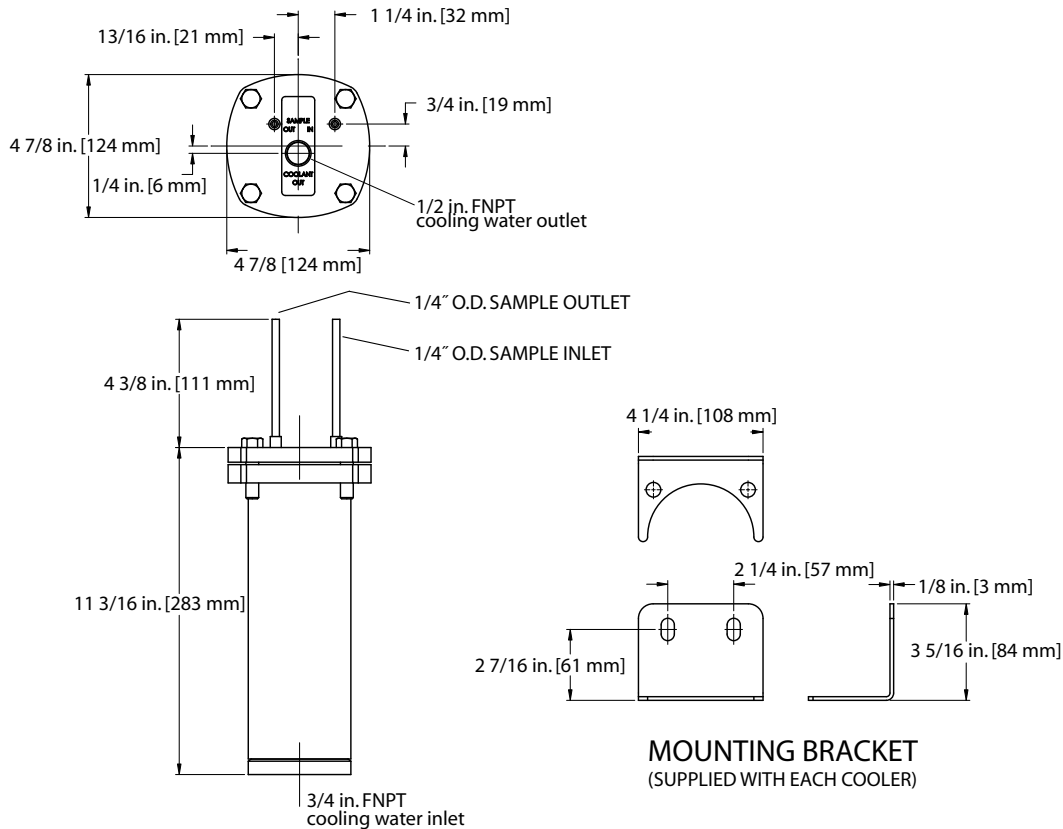
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PERFORMANCE CURVE (Water)



Sample. Monitor. Measure.
SENTRY
Any Application. Anywhere.



SPECIFICATIONS							
models	shell design	tube design	tube material	shell material	area	shipping weight	part number
TSR-4225	450 psi at 650°F (31 bar at 343°C)	5000 psi at 1000°F (345 bar at 538°C)	316/316L SS 1/4 in. O.D. x 0.049 in. AW	304 SS	1.2 ft. ² (0.11 m. ²)	14 lb. (6 kg.)	7-03952A
TSR-4225U		4400 psi at 1000°F (303 bar at 538°C)	316/316L SS 1/4 in. O.D. x 0.049 in. AW				7-03952B
TSR-42B5		5000 psi at 1100°F (345 bar at 593°C)	Alloy 625 1/4 in. O.D. x 0.035 in. AW				7-03952C
TSR-42B5U		5000 psi at 1100°F (345 bar at 593°C)	Alloy 625 1/4 in. O.D. x 0.035 in. AW				7-03952D
TSR-4B85		5000 psi at 1100°F (345 bar at 593°C)	Alloy 625 1/4 in. O.D. x 0.035 in. AW	Alloy 625			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 Sentry and safety instructions will be included per Article 3, Section 2.

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QUALITY SYSTEM
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