



# FSR SAMPLE COOLER

## Standard Materials

**Compact, efficient sample cooling  
for high flow gases and liquids**



**FSR SAMPLE COOLER (STANDARD MATERIALS)**

### Features

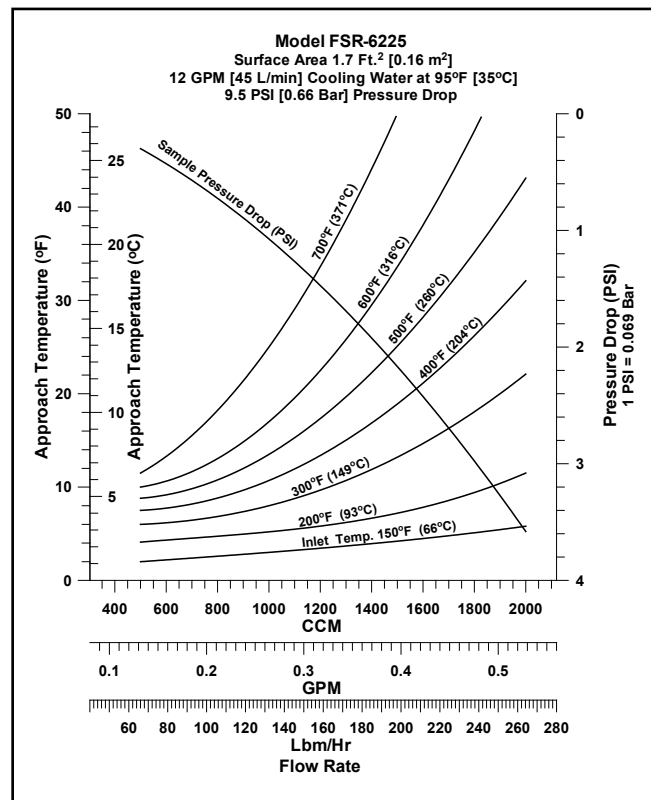
- Single helical coil design
- Available in a wide variety of exotic alloys for better corrosion resistance
- Retained shellside gasket reduces re-assembly time
- Formed shell eliminates top shell flange weld interfaces
- Mounting bracket can be installed without removing flange bolts

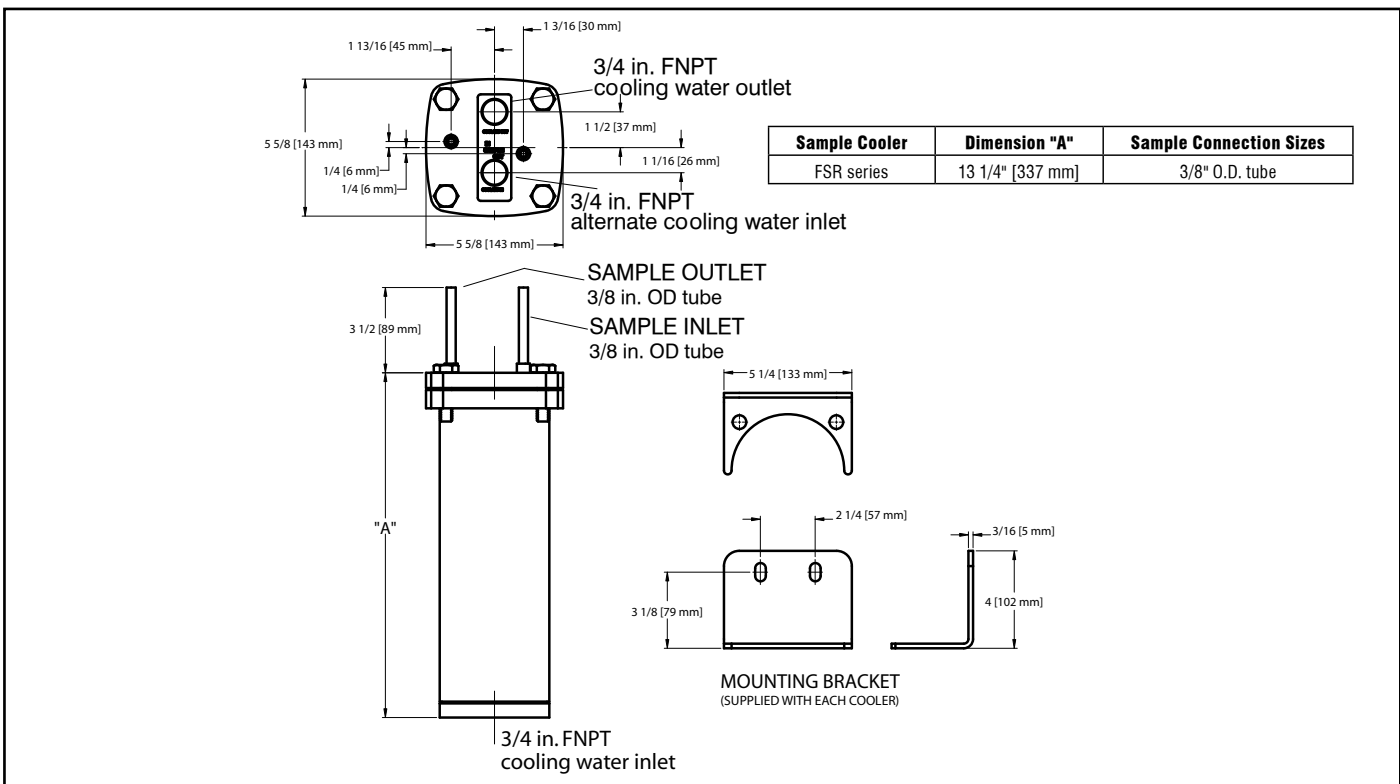
### Description

The FSR 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 is for flows below 2000 cc/min for single phase heat transfer. Standard tube side materials are 316/316L SS and Alloy 625 (e.g., Inconel®). Please see data sheet 4.9 for special materials available.

**NOTE:** Not recommended for steam condensing service. See TLR, FLR, FXR series sample coolers for steam applications.  
Consult Sentry for low-flow condensing applications.

### Performance Curve - Water





### Specifications – FSR Series (standard materials)

Model No.	Shell Design	Tube Design	Tube Material	Shell Material	Area	Shipping Weight	Part Number
FSR-6222	450 psi @ 650°F 31 bar @ 343°C	2485 psi @ 680°F 171 bar @ 360°C	316/316L SS 3/8" O.D. x 0.035"AW	304 SS	1.7 ft² 0.16 m²	24 lbs 11 kg	7-03954C
FSR-6225	450 psi @ 650°F 31 bar @ 343°C	5000 psi @ 1000°F 345 bar @ 537°C	316/316L SS 3/8" O.D. x 0.065"MW	304 SS	1.7 ft² 0.16 m²	24 lbs 11 kg	7-03954A
FSR-6225U	300 psi @ 650°F 20 bar @ 343°C	4500 psi @ 1000°F 310 bar @ 537°C	316/316L SS 3/8" O.D. x 0.065"MW	304 SS	1.7 ft² 0.16 m²	24 lbs 11 kg	7-03954B
FSR-62B3	450 psi @ 650°F 31 bar @ 343°C	3400 psi @ 1100°F 234 bar @ 593°C	Alloy 625 (e.g., Inconel®) 3/8" O.D. x 0.035"AW	304 SS	1.7 ft² 0.16 m²	24 lbs 11 kg	7-03954E
FSR-6BB3	150 psi @ 250°F 10 bar @ 121°C	3400 psi @ 1100°F 234 bar @ 593°C	Alloy 625 (e.g., Inconel®) 3/8" O.D. x 0.035"AW	Alloy 625	1.7 ft² 0.16 m²	24 lbs 11 kg	7-03954G

- NOTES:**
- U in model number denotes ASME stamped model.
  - Canadian Registration Number available for ASME 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.
  - Inconel is a registered trademark of Huntington Alloys Corporation.

**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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