



# ULTRA-SUPERCritical SAMPLE COOLER

## Helical Coil Sample Cooler

*Compact, efficient sample cooling  
for gases and liquids*



ULTRA-SUPERCritical SAMPLE COOLER

### Features

- Seamless Alloy 625 tube
- Rated for the newest ultra-supercritical power plants (5175 psig @ 1150°F [356 barg @ 621°C])
- Double helical coil design
- Minimize cooling water needs
- Retained shellside gasket reduces re-assembly time
- Mounting bracket can be installed without removing flange bolts
- ASME U stamp and MTRs standard

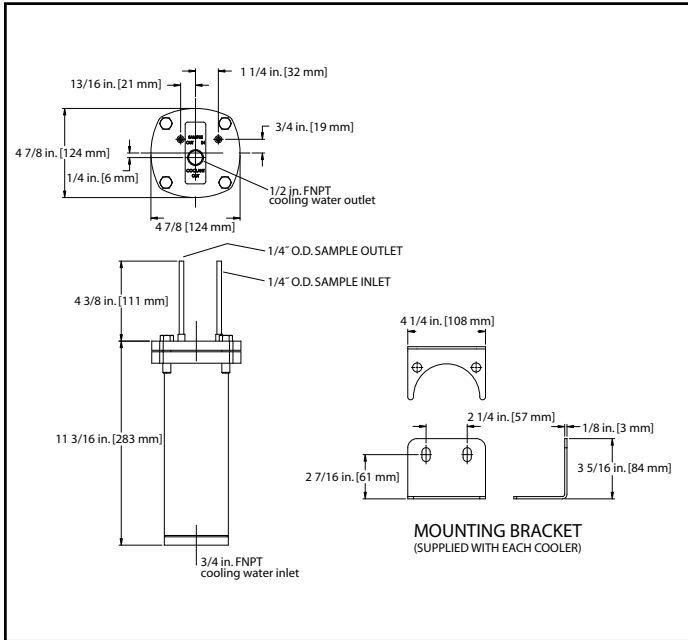
### Description

The Sentry® TLR series sample cooler is the most efficient and cost effective sample cooler available. Optimal service for flows below 1800 cc/min for single phase and below 1000 cc/min for condensing heat transfer. Standard tube side materials are Alloy 625 (e.g., Inconel®). Optimized for steam condensing service.

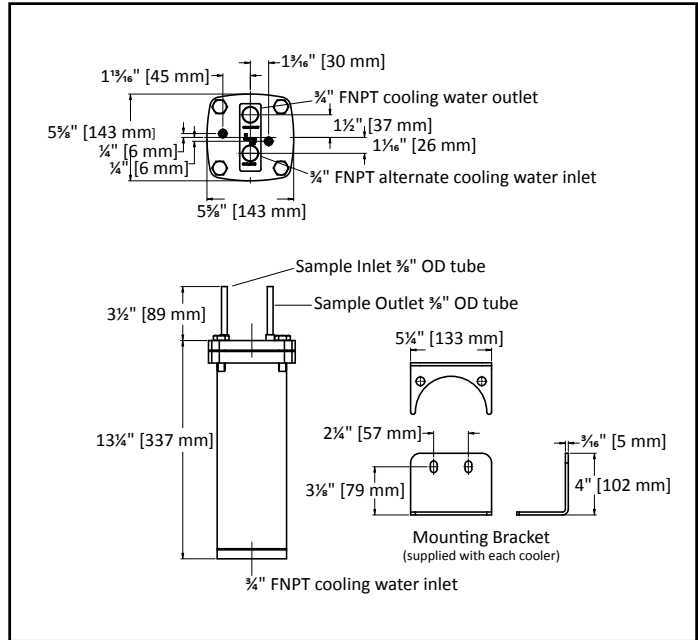
The Sentry® FLR series sample cooler is designed for efficient and cost effective sample cooling where higher flow or low pressure drop is required. Optimal service for flows below 3500 cc/min for single phase and 2000 cc/min for condensing heat transfer. Standard tube side materials are Alloy 625 (e.g., Inconel®). Optimized for steam condensing service.

## TECHNICAL DATA

### Sentry® TLR Sample Cooler



### Sentry® FLR Sample Cooler



Specifications								
Model No.	Shell Design	Tube Design	Tube Material	Shell Material	Area	Shipping Weight	Part Number	
TLR-42B5USC	450 psi @ 650°F 31 bar @ 343°C	5175 psi @ 1150°F 356 bar @ 621°C	Alloy (Inconel®) 625 1/4" O.D. x 0.035" AW seamless	304 SS	2.4 ft <sup>2</sup> 0.22 m <sup>2</sup>	17 lbs 8 kg	7-04728B	
FLR-62B5USC	300 psi @ 650°F 20 bar @ 343°C	5175 psi @ 1150°F 356 bar @ 621°C	Alloy (Inconel®) 625 3/8" O.D. x 0.065" AW seamless	304 SS	3.5 ft <sup>2</sup> 0.33 m <sup>2</sup>	29 lbs 13 kg	7-04728D	

**NOTES:**

- U in model number denotes ASME stamped model.
- 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.



### SENTRY® EQUIPMENT CORP

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**QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001:2008**

For further information, contact: