



# SENTRY FLR SINGLE HELICAL TUBE Sample Coolers

## SAMPLE CONDITIONING

The Sentry® FLR 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

FLR-6222 | FLR-6225 | FLR-6525(S) | FLR-62B3 | FLR-6BB3  
 FLR-6225U | FLR-6525U(S) | FLR-62B3U |

### BENEFITS

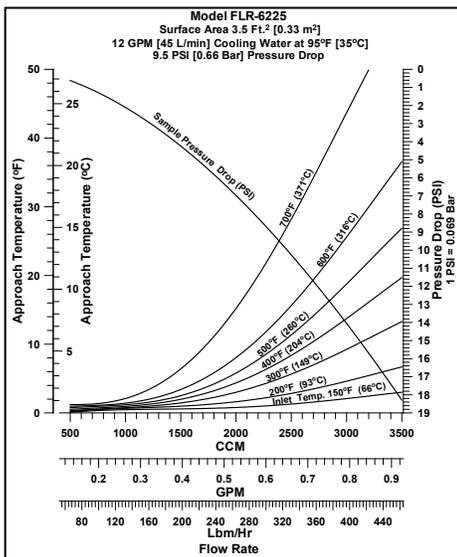
The Sentry FLR sample cooler is designed for efficient and cost-effective sample cooling where higher flow or low pressure drop is required. It offers optimal service for flows below 3500 cc per minute for single phase and 2000 cc per minute for condensing heat transfer. Standard materials are 316/316L or Alloy 625 for high chloride cooling water applications. Optimized for steam condensing service.

### FEATURES

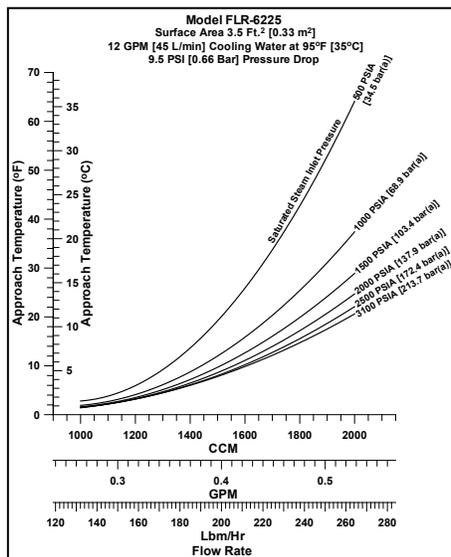
- Double-wound helical coil design
- Minimizes cooling water needs
- Wide variety of exotic alloys for corrosion resistance
- Retained shellside gasket reduces reassembly time
- Formed shell eliminates top shell flange weld interfaces
- Mounting bracket can be installed without removing flange bolts
- All 316 SS construction available where higher corrosive resistance is desired



### PERFORMANCE CURVE - WATER



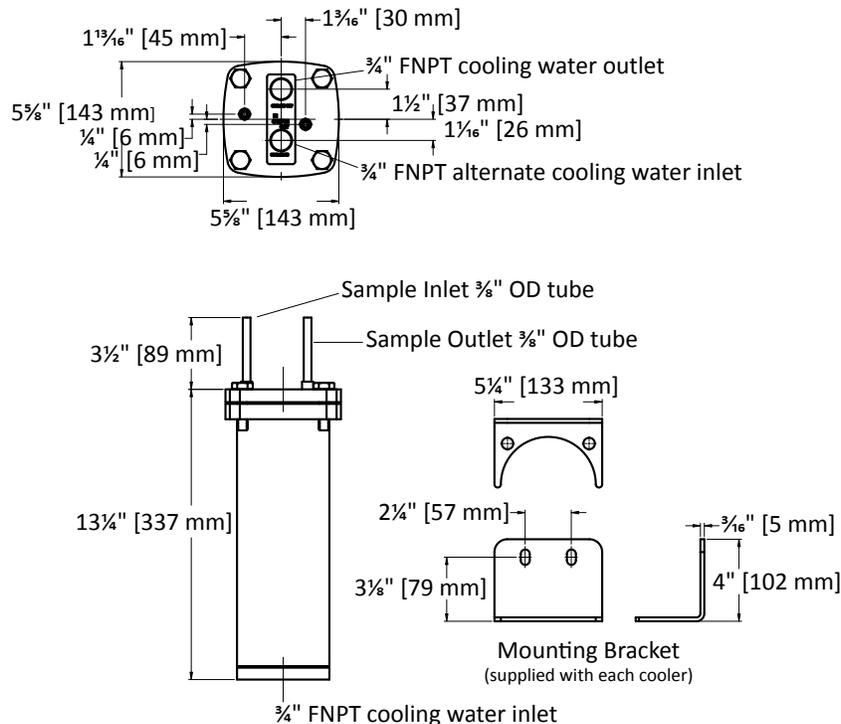
### PERFORMANCE CURVE - STEAM



Sample. Monitor. Measure.



**SENTRY**  
 Any Application. Anywhere.



### SPECIFICATIONS

models	shell design	tube design	tube material	shell material	area	shipping weight	part number
FLR-6222	450 psi at 650°F (31 bar at 343°C)	2000 psi at 1000°F (206 bar at 538°C)	316/316L SS 3/8 in OD x 0.035 in AW	304 SS	3.5 ft <sup>2</sup> (0.33 m <sup>2</sup> )	26 lb (12 kg)	7-03953E
FLR-6225	450 psi at 650°F (31 bar at 343°C)	5000 psi at 1000°F (345 bar at 538°C)	316/316L SS 3/8 in OD x 0.065 in MW	304 SS		7-03953A	
FLR-6225U	300 psi at 650°F (21 bar at 343°C)	4500 psi at 1000°F (310 bar at 538°C)	316/316L SS 3/8 in OD x 0.065 in MW	304 SS		7-03953B	
FLR-6525(S)	450 psi at 650°F (31 bar at 343°C)	5000 psi at 1000°F (345 bar at 538°C)	316/316L SS 3/8 in OD x 0.065 in MW	316 SS		7-04480J	
FLR-6525U(S)	300 psi at 650°F (21 bar at 343°C)	4400 psi at 1000°F (303 bar at 538°C)	316/316L SS 3/8 in OD x 0.065 in MW	316 SS		29 lb (13 kg)	7-04067N
FLR-62B3	450 psi at 650°F (31 bar at 343°C)	3400 psi at 1100°F (234 bar at 593°C)	Alloy 625 3/8 in OD x 0.035 in AW	304 SS		7-03953G	
FLR-62B3U	300 psi at 650°F (21 bar at 343°C)	3400 psi at 1100°F (234 bar at 593°C)	Alloy 625 3/8 in OD x 0.035 in AW	304 SS		7-03953H	
FLR-6BB3	450 psi at 650°F (31 bar at 343°C)	3400 psi at 1100°F (234 bar at 593°C)	Alloy 625 3/8 in OD x 0.035 in AW	Alloy 625		7-03953J	

- 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 2014/68/EU, TÜV. Vessels are below or equal to the limits set forth in Article 4, Sections 1(a), 1(b), 1(c) 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 name and safety instructions will be included per Article 4, Section 2.