

SANITARY DUAL TUBE COIL

High Efficiency Tube-In-Tube Heat Exchanger

- Continuous tube-in-tube
- Interior surface finish of $R_a \leq 20$
- Fully drainable inner and outer coil
- Spiral wound for maximum counterflow efficiency
- Highly resistant to thermal and hydraulic shock

The Sentry DTC-6 dual tube coil is specifically designed to cool or heat samples that require a high level of purity. The design provides the benefits of a compact high efficiency helical coil heat exchanger while maintaining a high level of surface finish inside the sample tube. This is achieved by using a highly polished (better than $R_a 10$) tube as the material for creating the helical coil. After specially controlled coiling, the ID surface maintains a $R_a \leq 20$. Tri-clover® sample connections are orbitally welded to the sample tube and electropolished. Contact factory for other sanitary dual tube coil configurations.

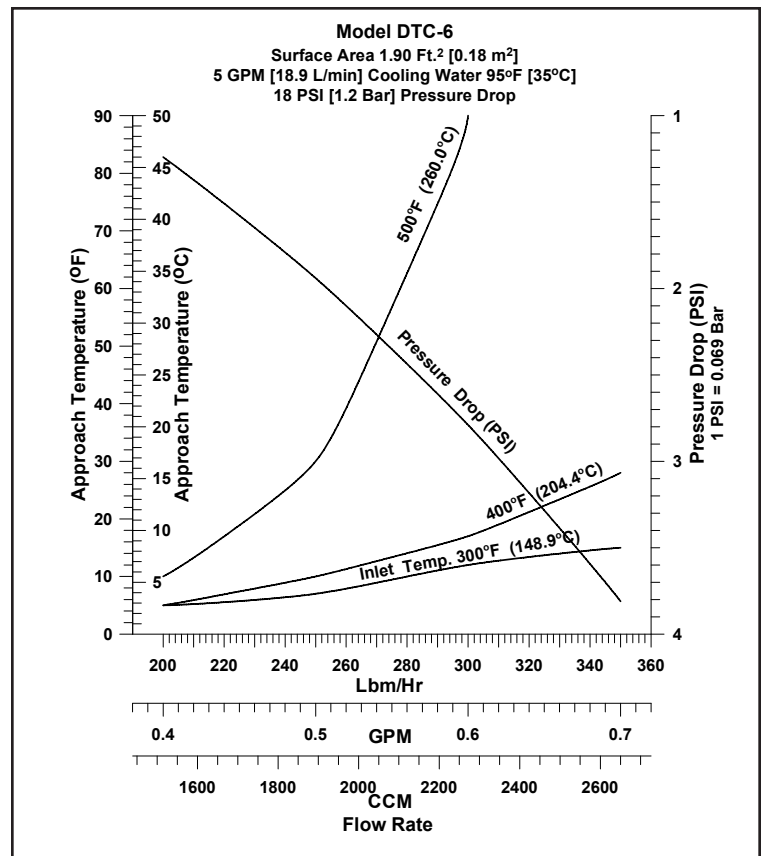
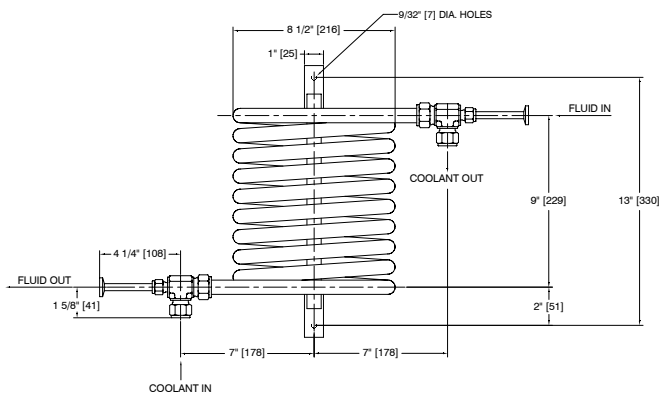
All other features of the DTC-6 are similar to other Sentry dual tube coils including our well-known quality workmanship and efficiency.

Sentry offers a variety of dual tube coils with a choice of heat transfer area, materials of construction and shell design, as well as, a variety of other sample conditioning products that help assure the most representative sample possible.

SPECIFICATIONS

- Pressure rating:** Max.150psi @ 450°F (10 Bar@232°C) inner tube*
1100psi@ 200°F (82 Bar@ 93°C) outer tube
- End Connections:** ½" Tri-clamp
- Wetted Materials:** 0.375" x .035" wall, SA249 316SS, polished to $R_a \leq 20$
- Heating surface:** 1.9 ft.2 (0.18 m2)
- Weight:** 16 lbs (7.3 kg)
- Model No.:** DTC-SSG/SSC-6-4-1
- Part No.:** 7-02672F

* inner tube ratings determined by tri-clamp connector and elastomer material used.



Performance data shows approach temperature (outer tube inlet + approach temp. = inner tube outlet temp.) for three inner tube inlet temperatures and various flow rates. Data based on thermal properties of water. Cooling water 95°F (35°C) @ 1.5 GPM (5.7 L/min). Pressure drop < 18 psi (1.2 bar). Consult factory for other fluids flow, rates and pressure drops.

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