



# SENTRY TUBE-IN-TUBE DTC-8

## Heat Exchangers

### SAMPLE CONDITIONING

Sentry® DTC-8 (dual tube coil) tube-in-tube heat exchangers are spirally wound, full counter flow heat exchangers well suited for a variety of applications where low flow rates of high temperature and/or high pressure fluids need cooling or heating.

#### MODELS

DTC-CUB/CUC-8-1-1

DTC-SSB/CUC-8-1-1

DTC-IN7/CUC-8-1-1

DTC-SSB/SSD-8-1-1

DTC-IN7/SSD-8-1-1

#### BENEFITS

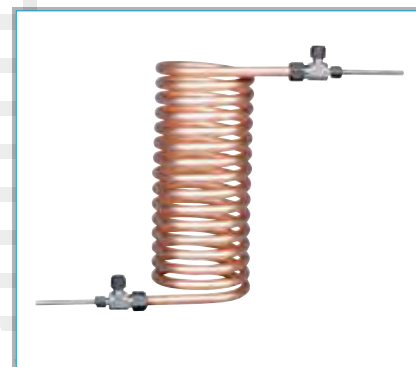
The sturdy tube-within-a-tube concept uses heavy duty terminal fittings to provide for a plain tube end interface for the inner tube, and a compression connection for the outer tube. The plain end of the inner tube is easily adapted to a variety of connections including compression, threaded, socket weld, sanitary clamp and many more.

The tube-within-a-tube design also provides for high pressure/temperature capabilities on both sides of the heat exchanger, providing greater application flexibility.

The single continuous inner tube increases reliability and cleanliness and allows the unit to be completely drainable.

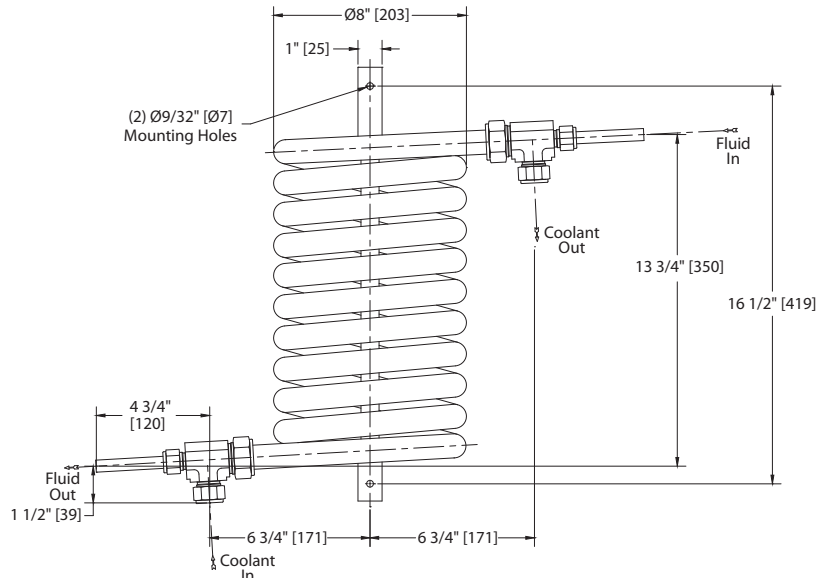
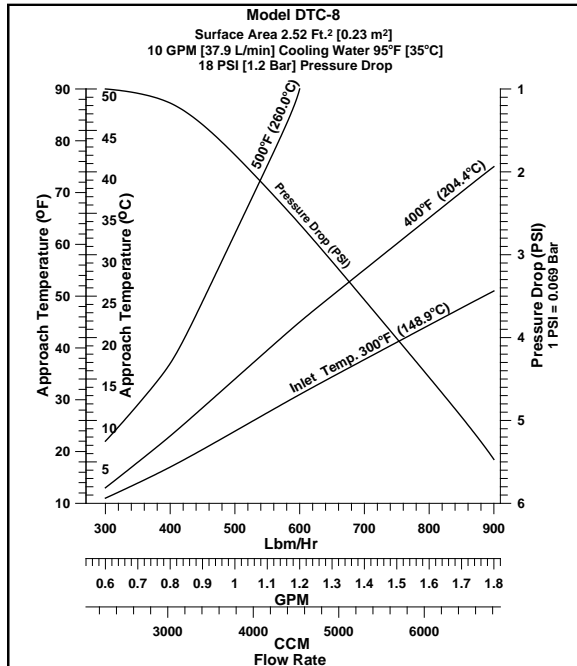
#### FEATURES

- Fully drainable inner and outer coil
- Spiral wound for maximum counter-flow efficiency
- Constant fluid velocity
- No dead spots or crevices
- Excellent for multi-phase/multi-component fluids and slurries
- Highly resistant to thermal and hydraulic shock
- Materials to meet any application: 300 and 400 grade stainless steel, copper and copper alloys, nickel alloys, titanium, zirconium or PTFE



Sample. Monitor. Measure.

**SENTRY**  
Any Application. Anywhere.



## SPECIFICATIONS

models	inner tube design	outer tube design	inner tube material	outer tube material	h.t. area	weight
DTC-CUB/CUC-8-1-1	1250 psig at 300°F 86 bar at 148°C	700 psig at 300°F 48 bar at 148°C	1/2 in. O.D. copper	1 in. O.D. copper	2.52 ft. <sup>2</sup> (0.23 m. <sup>2</sup> )	30 lb. (13.6 kg.)
DTC-SSB/CUC-8-1-1	2400 psig at 1000°F 165 bar at 537°C	700 psig at 300°F 48 bar at 148°C	1/2 in. O.D. 316SS	1 in. O.D. copper	2.52 ft. <sup>2</sup> (0.23 m. <sup>2</sup> )	30 lb. (13.6 kg.)
DTC-IN7/CUC-8-1-1	4000 psig at 900°F 276 bar at 482°C	700 psig at 300°F 48 bar at 148°C	1/2 in. O.D. Inconel	1 in. O.D. copper	2.52 ft. <sup>2</sup> (0.23 m. <sup>2</sup> )	30 lb. (13.6 kg.)
DTC-SSB/SSD-8-1-1	2400 psig at 1000°F 165 bar at 537°C	2300 psig at 1000°F 158 bar at 537°C	1/2 in. O.D. 316SS	1 in. O.D. 316SS	2.52 ft. <sup>2</sup> (0.23 m. <sup>2</sup> )	30 lb. (13.6 kg.)
DTC-IN7/SSD-8-1-1	4000 psig at 900°F 276 bar at 482°C	2300 psig at 1000°F 158 bar at 537°C	1/2 in. O.D. Inconel	1 in. O.D. 316SS	2.52 ft. <sup>2</sup> (0.23 m. <sup>2</sup> )	30 lb. (13.6 kg.)

[sentry-equip.com](http://sentry-equip.com)

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 QUALITY SYSTEM  
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