



Gas



Liquid & Slurry



Solid & Powder



Steam & Water

# 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

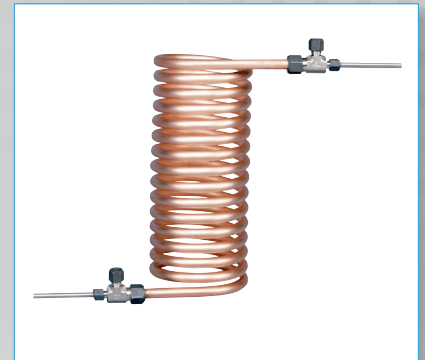
The sturdy tube-within-a-tube concept uses heavy duty terminal fittings to provide for a plain tube end interface for the inner tube, and a compression connection for the outer tube. The plain end of the inner tube is easily adapted to a variety of connections including compression, threaded, socket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

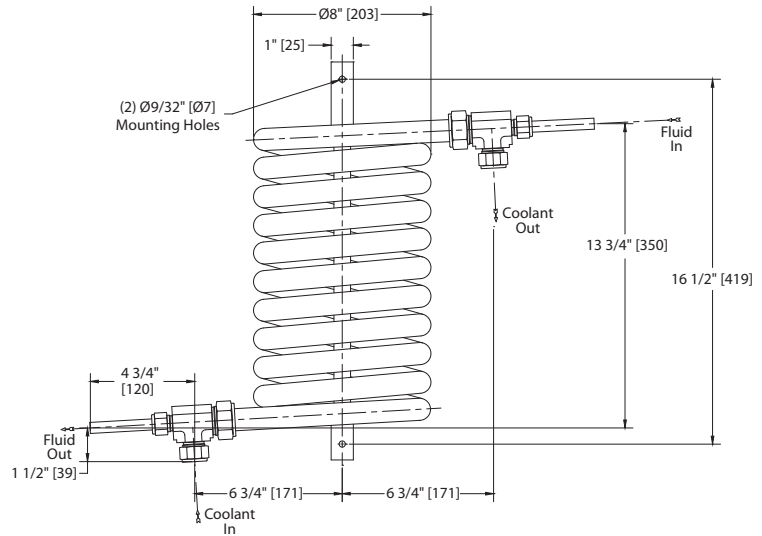
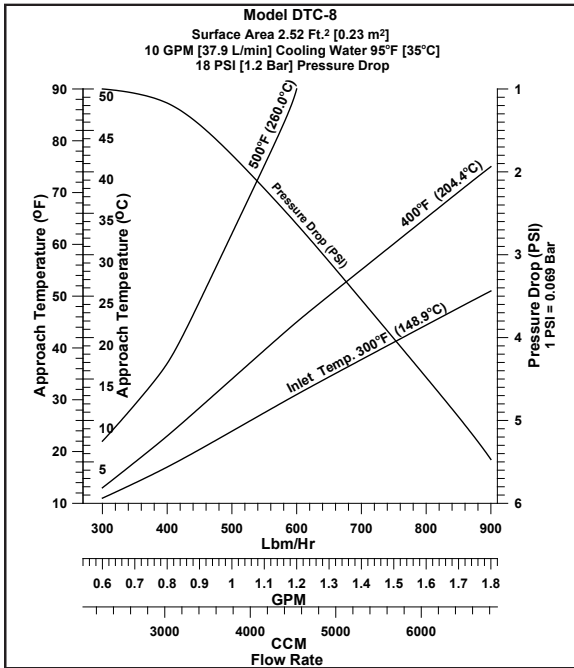
- Fully drainable inner and outer coil
- Spiral wound for maximum counter-flow efficiency
- Constant fluid velocity
- No dead spots or crevices
- Excellent for multi-phase/multi-component fluids and slurries
- Highly resistant to thermal and hydraulic shock
- Materials to meet any application: 300 and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



Sample. Monitor. Measure.

# SENTRY

Any Application. Anywhere.



CONNECTIONS		
Tube	Size	Type
Inner	1/2" O.D.	plain tubing
Outer	3/4" O.D.	compression fitting

**SPECIFICATIONS**

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

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