



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

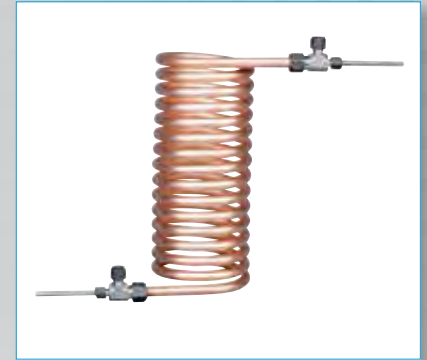
The sturdy tube-within-a-tube concept uses heavy duty terminal fittings to provide for a plain tube end interface for the inner tube, and a compression connection for the outer tube. The plain end of the inner tube is easily adapted to a variety of connections including compression, threaded, socket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

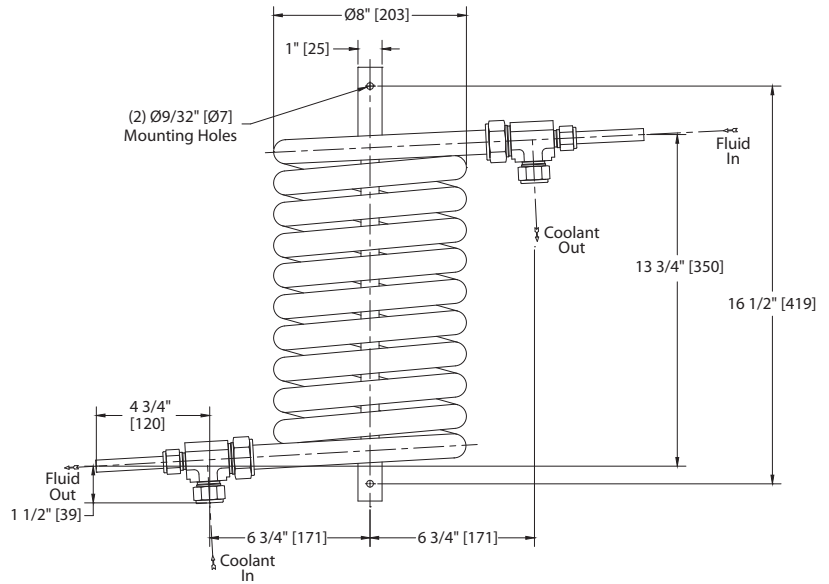
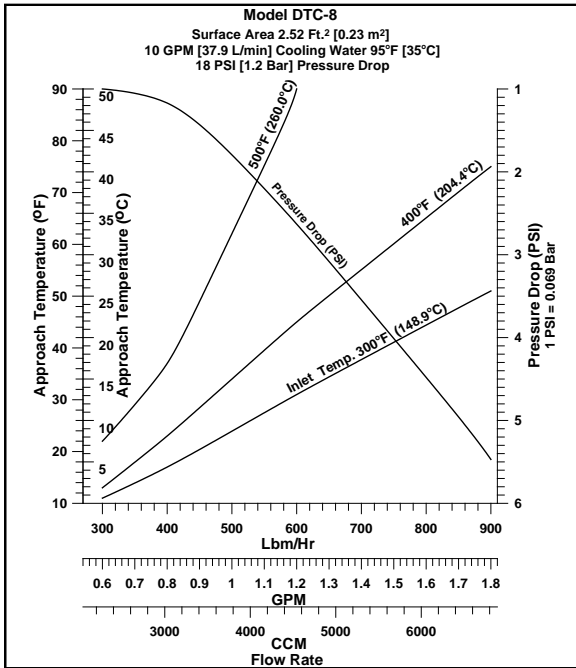
The tube-within-a-tube design also provides for high pressure/temperature capabilities on both sides of the heat exchanger, providing greater application flexibility.

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





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. ² (0.23 m. ²)	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. ² (0.23 m. ²)	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. ² (0.23 m. ²)	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. ² (0.23 m. ²)	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. ² (0.23 m. ²)	30 lb. (13.6 kg.)



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