



Gas



Liquid & Slurry



Solid & Powder



Steam & Water

# SENTRY TUBE-IN-TUBE DTC-4 Heat Exchangers



## SAMPLE CONDITIONING

Do you have low flow rate and high temperature and/or high-pressure fluids that need control? The DTC Tube-in-Tube Heat Exchanger can help manage this through its spiral wound, counter flow design. Made to custom fit your application, the heat exchanger's base tube-in-tube design allows for reliability, efficiency, and minimal downtime through simplistic design and minimal operator intervention.

### MODELS

DTC-CUA/CUA-4-1-1

DTC-SSA/CUA-4-1-1

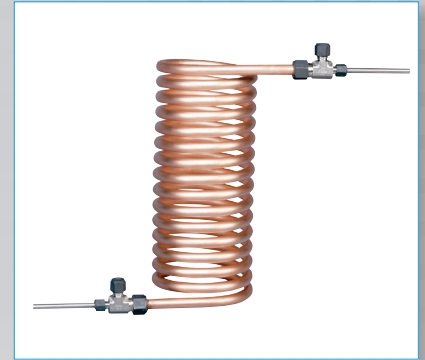
DTC-IN1/CUA-4-1-1

DTC-SSA/SSB-4-1-1

DTC-IN1/SSB-4-1-1

### FEATURES

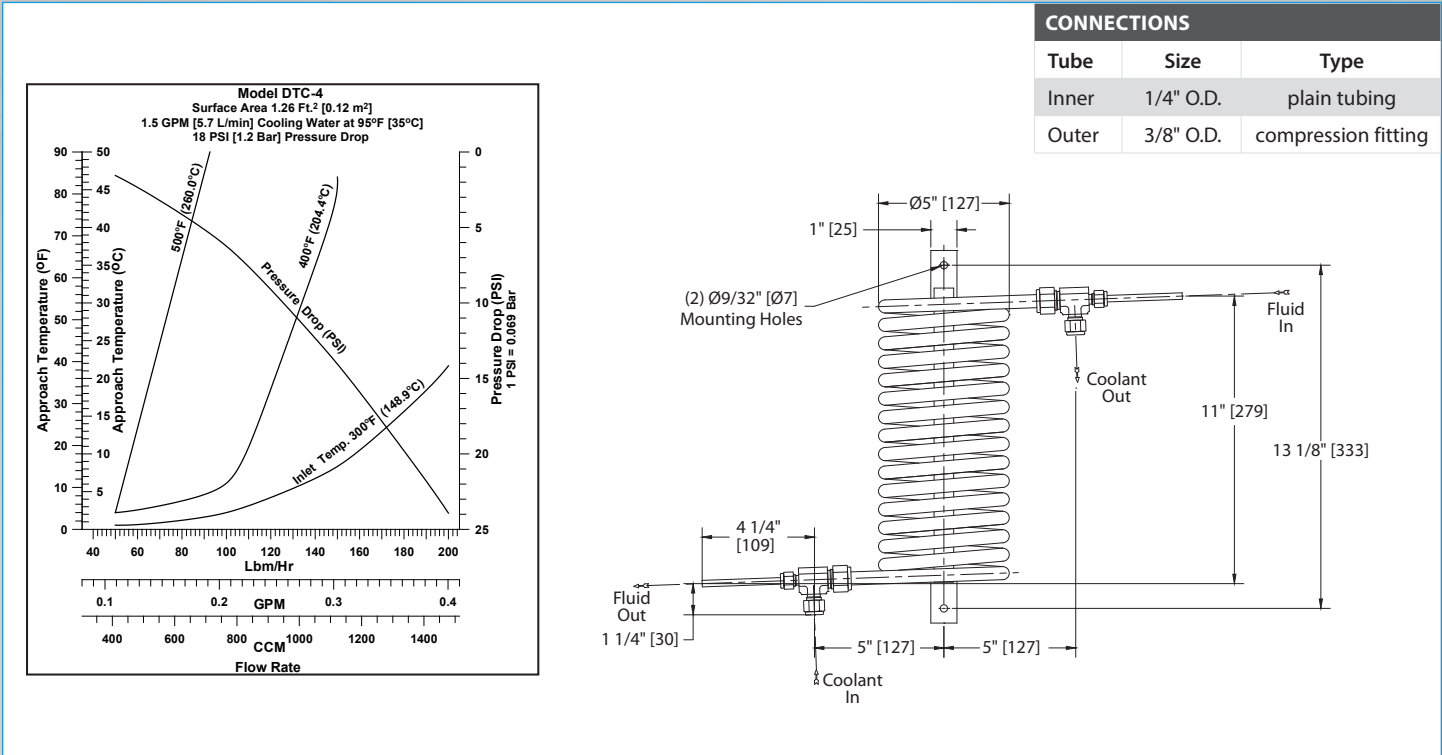
- The DTC Heat Exchanger has a constant fluid velocity, ensuring no dead spots or crevices.
- Making it easier to service, this heat exchanger comes with a completely drainable design.
- The product can be made with a variety of materials such as:
  - Stainless Steel
  - Copper
  - Nickle Alloys
  - Titanium
  - Zirconium



Sample. Monitor. Measure.

# SENTRY

Any Application. Anywhere.



**SPECIFICATIONS**

models	inner tube design	outer tube design	inner tube material	outer tube material	heat transfer area	weight
DTC-CUA/CUA-4-1-1	2000 psi at 300°F (137 bar at 148°C)	700 psi at 300°F 48 bar at 148°C	1/4 in OD copper	1/2 in OD copper	1.26 ft² (0.12 m²)	12 lb (5.5 kg)
DTC-SSA/CUA-4-1-1	4900 psi at 1000°F (337 bar at 537°C)	700 psi at 300°F 48 bar at 148°C	1/4 in OD 316SS	1/2 in OD copper	1.26 ft² (0.12 m²)	12 lb (5.5 kg)
DTC-IN1/CUA-4-1-1	5450 psi at 1100°F (375 bar at 593°C)	700 psi at 300°F 48 bar at 148°C	1/4 in OD Alloy 625	1/2 in OD copper	1.26 ft² (0.12 m²)	12 lb (5.5 kg)
DTC-SSA/SSB-4-1-1	4900 psi at 1000°F (337 bar at 537°C)	2300 psi at 1000°F 158 bar at 537°C	1/4 in OD 316SS	1/2 in OD 316SS	1.26 ft² (0.12 m²)	12 lb (5.5 kg)
DTC-IN1/SSB-4-1-1	5450 psi at 1100°F (375 bar at 593°C)	2300 psi @1000°F 158 bar @537°C	1/4 in OD Alloy 625	1/2 in OD 316SS	1.26 ft² (0.12 m²)	12 lb (5.5 kg)

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 company for other fluids flow, rates and pressure drops.

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