



SEC *Heat Exchangers*

TECHNICAL CATALOGUE

Section 2

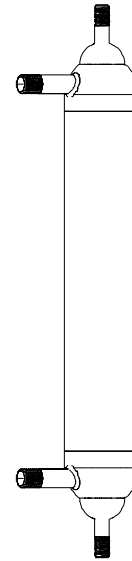
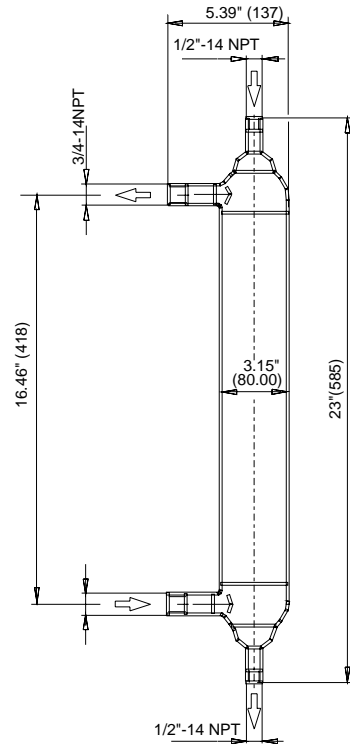
SEC Series

Drawings & Data Sheets

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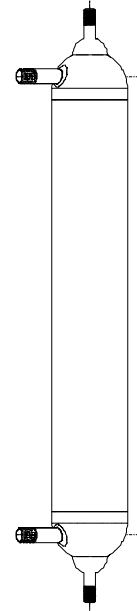
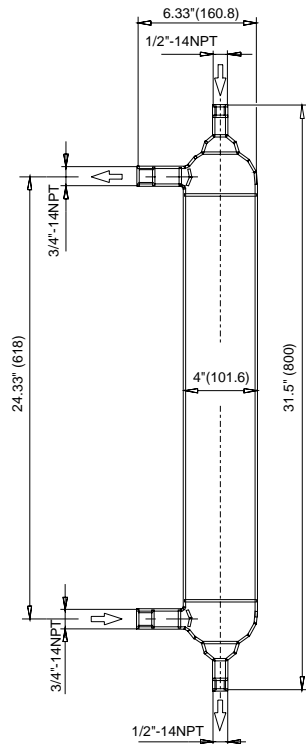
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C.3.12.90 HEAT EXCHANGER



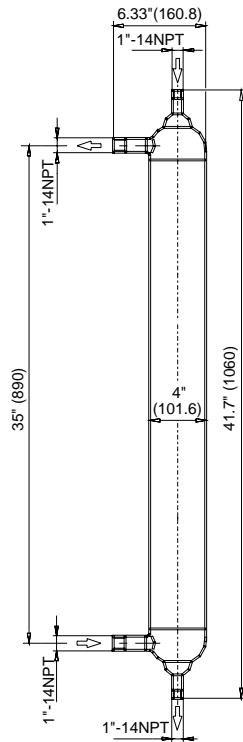
| | | |
|---------------------------|---|--|
| Type | C.3.12.90 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| type | corrugated tubes \varnothing 8 mm | |
| size | 3.12 ft ² (0.29 m ²) | |
| Connections | | |
| Tube side | threaded NPT 3/4" | |
| Shell side | threaded NPT 3/4" | |
| Material | stainless steel AISI 316L | |
| Volume | | |
| Shell side | 0.25gal (1.0 L) | |
| Tube side | 0.13gal (0.5 L) | |
| Weight | | |
| threaded connections | 11.0lb (5.0 kg) | |
| | | |
| | | |

C.8.19.90 HEAT EXCHANGER



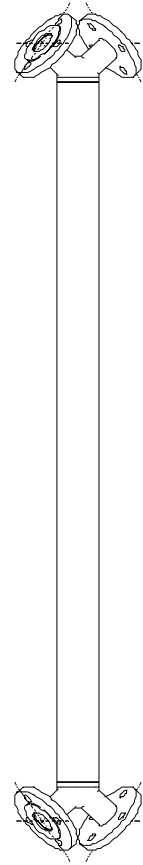
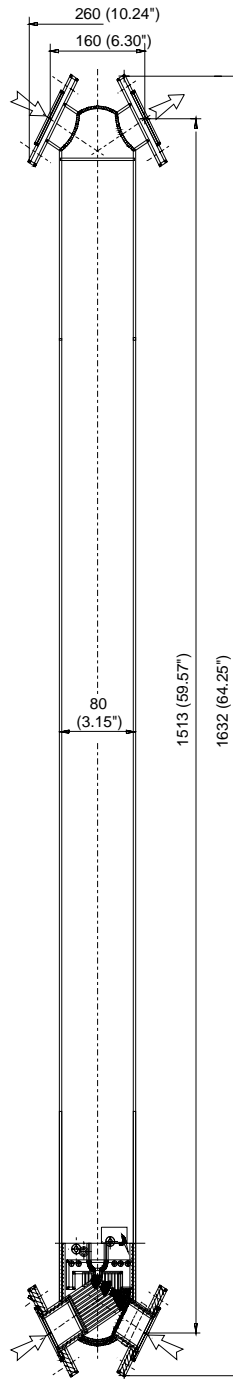
| | | |
|---------------------------|---------------------------------------|--|
| Type | C.8.19.90 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes \varnothing 8 mm |
| | size | 8.19 ft ² (0.761 m ²) |
| Connections | | |
| | tube side | threaded NPT 1" |
| | shell side | threaded NPT 1" |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 0.63gal (2.4 L) |
| | tube side | 0.29gal (1.1 L) |
| Weight | | |
| | threaded connections | 17.6lb (8.0 kg) |

C.14.21.90 HEAT EXCHANGER



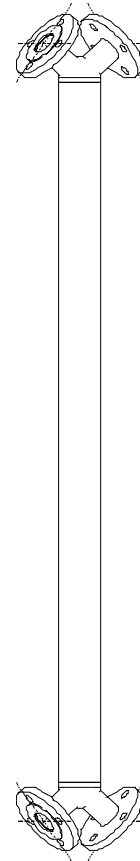
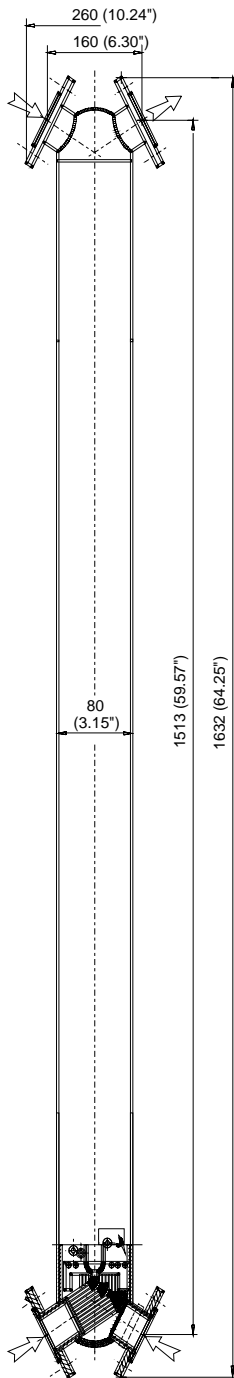
| | |
|---------------------------|--|
| Type | C14.21.90 counter flow heat exchanger |
| Working Pressure | 250 psi @ 406 F |
| Working Temperature | min -4 F to max 406 F |
| Hydraulic Characteristics | logarithmic |
| Heat Transfer Surface | |
| type | corrugated tubes \varnothing 8 mm |
| size | 14.20 ft ² (1.32 m ²) |
| Connections | |
| tube side | threaded NPT 1" |
| shell side | threaded NPT 1" |
| Material | stainless steel AISI 316L |
| Volume | |
| shell side | 0.79gal (3.0 L) |
| tube side | 0.50gal (1.9 L) |
| Weight | |
| threaded connections | 22.0lb (10.0 kg) |

P.12.92.50 HEAT EXCHANGER



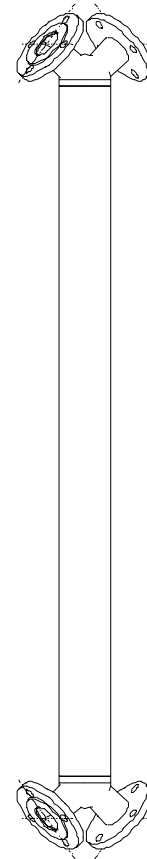
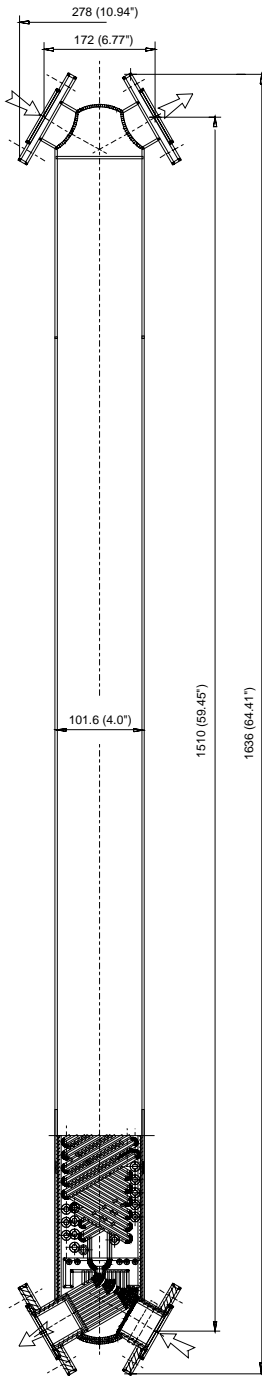
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|---------------------------|--|---|
| Type | P.12.92.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | smooth tubes \varnothing 8 mm |
| | size | 12.91 ft ² (1.2 m ²) |
| Connections | | |
| | tube side | 1 1/2" FNPT or Die Formed Flanges (compatible to 1 1/2" CL 300) |
| | shell side | 1 1/2" FNPT or Die Formed Flanges (compatible to 1 1/2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 1.72gal (6.5 L) |
| | tube side | 0.95gal (3.6 L) |
| Weight | | |
| | threaded connections | 43.0lb (19.5 kg) |
| | flanged connections | 51.8lb (23.5 kg) |

C.12.92.50 HEAT EXCHANGER



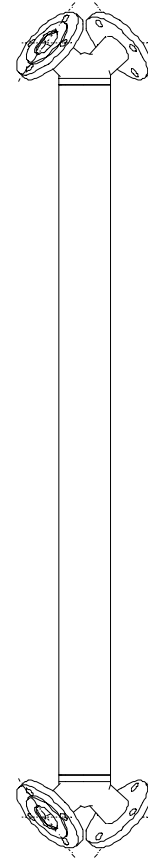
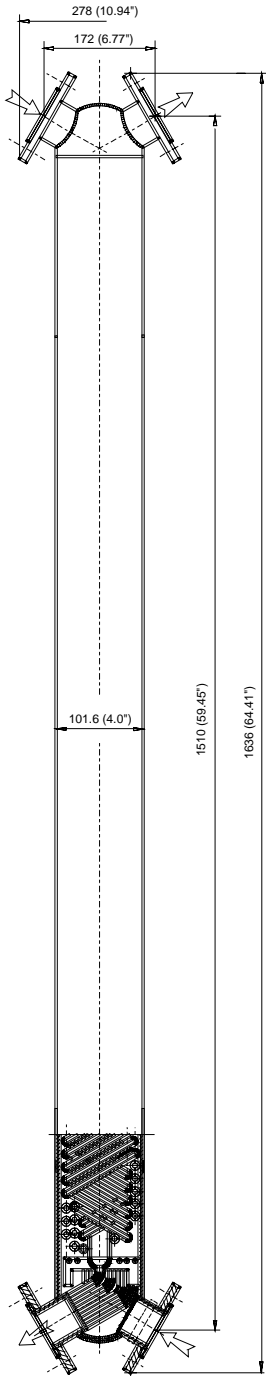
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|---------------------------|--|---|
| Type | C.12.92.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes \varnothing 8 mm |
| | size | 12.91 ft ² (1.2 m ²) |
| Connections | | |
| | tube side | 1 1/2" FNPT or Die Formed Flanges (compatible to 1 1/2" CL 300) |
| | shell side | 1 1/2" FNPT or Die Formed Flanges (compatible to 1 1/2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 1.72gal (6.5 L) |
| | tube side | 0.95gal (3.6 L) |
| Weight | | |
| | threaded connections | 43.0lb (19.5 kg) |
| | flanged connections | 51.8lb (23.5 kg) |

P.21.53.50 HEAT EXCHANGER



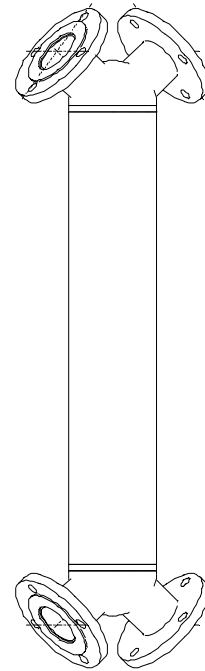
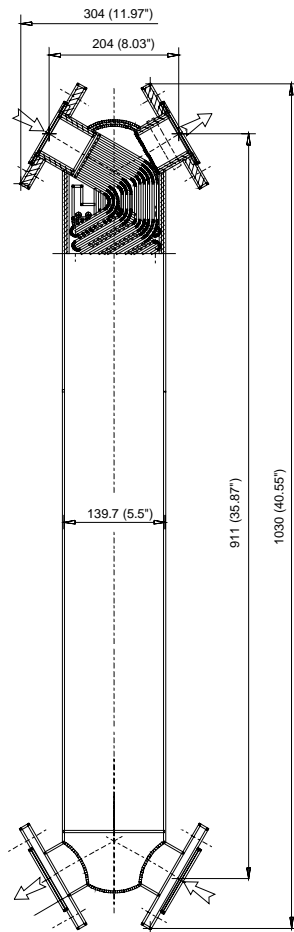
| | | |
|---------------------------|--|---|
| Type | P.21.53.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | smooth tubes \varnothing 8 mm |
| | size | 21.52 ft ² (2.0 m ²) |
| Connections | | |
| | tube side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| | shell side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 1.48gal (5.6 L) |
| | tube side | 0.79gal (3.0 L) |
| Weight | | |
| | threaded connections | 51.1lb (23.2 kg) |
| | flanged connections | 61.7lb (28.0 kg) |

C.21.53.50 HEAT EXCHANGER



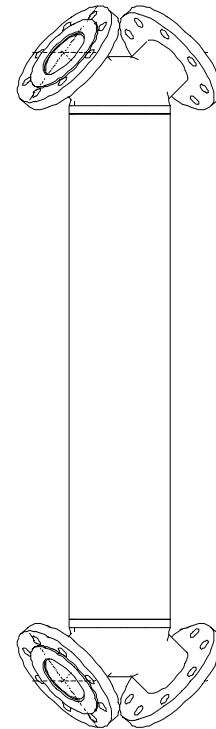
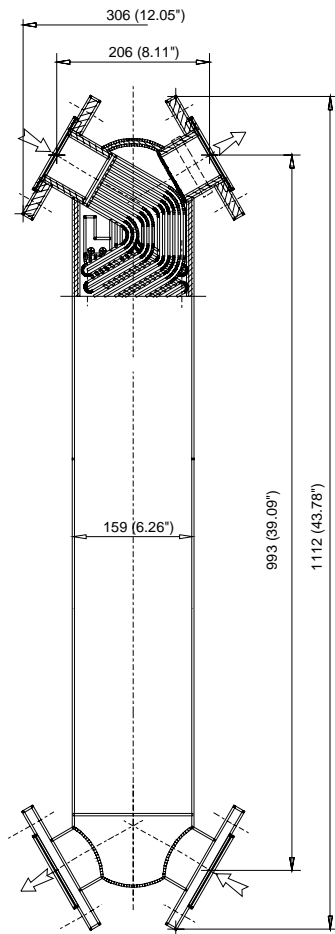
| | | |
|---------------------------|--|---|
| Type | C.21.53.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes \varnothing 8 mm |
| | size | 21.52 ft ² (2.0 m ²) |
| Connections | | |
| | tube side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| | shell side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 1.48gal (5.6 L) |
| | tube side | 0.79gal (3.0 L) |
| Weight | | |
| | threaded connections | 51.1lb (23.2 kg) |
| | flanged connections | 61.7lb (28.0 kg) |

CS.24.76.50 HEAT EXCHANGER



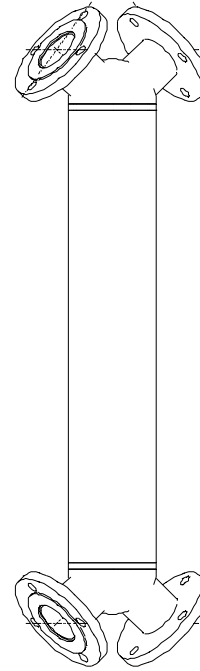
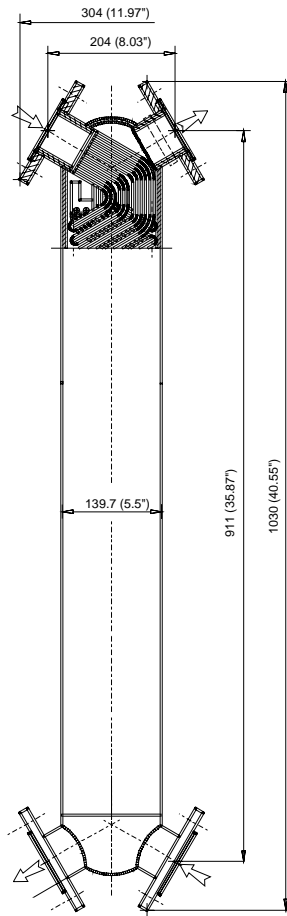
| | | |
|---------------------------|---|---|
| Type | CS.24.76.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes \varnothing 8 mm |
| | size | 24.75 ft ² (2.3 m ²) |
| Connections | | |
| | tube side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| | shell side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 1.64gal (6.2 L) |
| | tube side | 0.86gal (3.3 L) |
| Weight | | |
| | threaded connections | 54.0lb (24.5 kg) |
| | flanged connections | 63.9lb (29.0 kg) |

CS.33.80.50 HEAT EXCHANGER



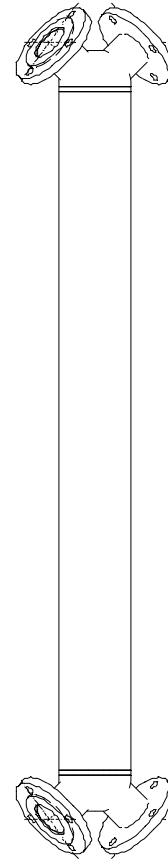
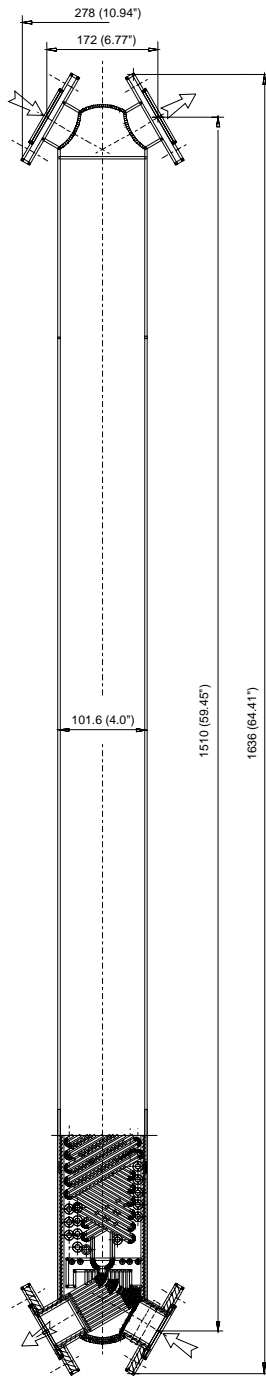
| | | |
|---------------------------|---|---|
| Type | CS.33.80.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes \varnothing 8 mm |
| | size | 33.79 ft ² (3.14 m ²) |
| Connections | | |
| | tube side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| | shell side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 2.58gal (9.8 L) |
| | tube side | 1.20gal (4.5 L) |
| Weight | | |
| | threaded connections | 68.3lb (31.0 kg) |
| | flanged connections | 77.2 lb (35.0 kg) |

C.24.76.50 HEAT EXCHANGER



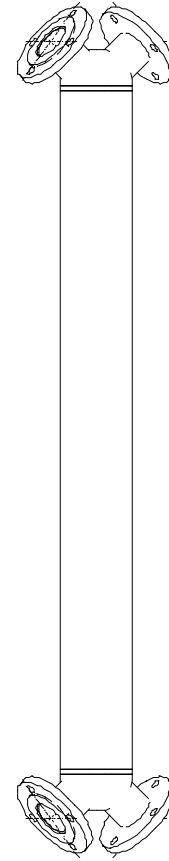
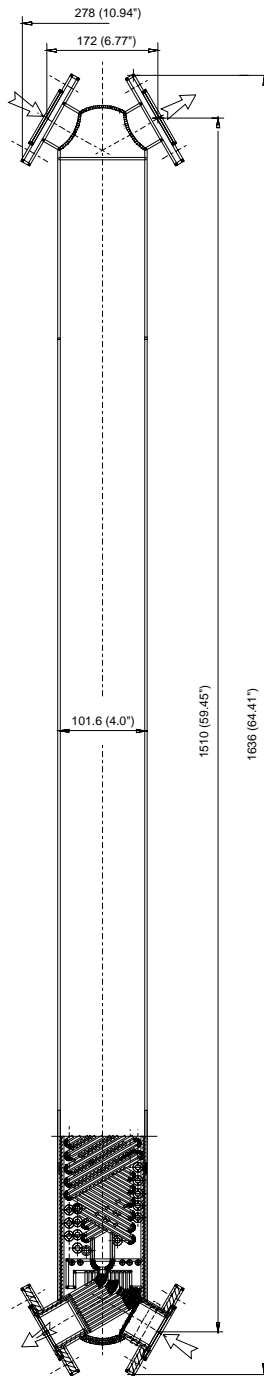
| | | |
|---------------------------|--|---|
| Type | C.24.76.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes \varnothing 8 mm |
| | size | 24.75 ft ² (2.3 m ²) |
| Connections | | |
| | tube side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| | shell side | 2" FNPT or Die Formed Flanges (compatible to 2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 1.32gal (5L) |
| | tube side | 1.06gal (4.8 L) |
| Weight | | |
| | threaded connections | 54.0lb (24.5 kg) |
| | flanged connections | 63.9lb (29.0 kg) |

P.43.06.50 HEAT EXCHANGER



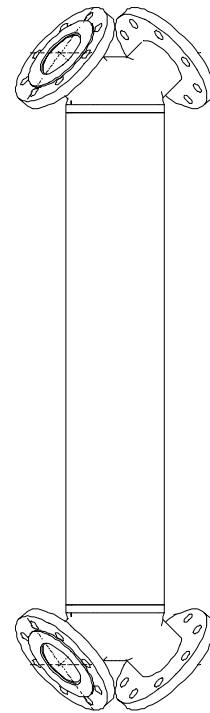
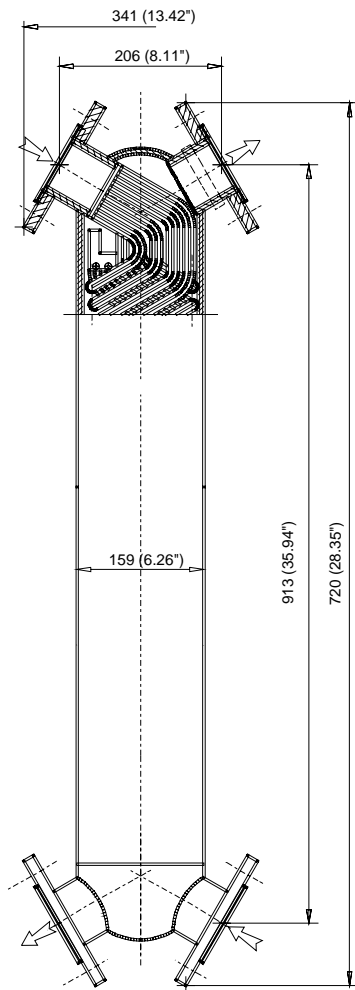
| | | |
|---------------------------|--|--|
| Type | P.43.06.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | smooth tubes \varnothing 8 mm |
| | size | 43.04 ft ² (4.0 m ²) |
| Connections | | |
| | tube side | 2 1/2" FNPT Die Formed Flanges (compatible to 2 1/2" CL 300) |
| | shell side | 2 1/2" FNPT Die Formed Flanges (compatible to 2 1/2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 3.01gal (11.4 L) |
| | tube side | 1.93gal (7.3 L) |
| Weight | | |
| | threaded connections | 85.3lb (38.7 kg) |
| | flanged connections | 95.9lb (43.5 kg) |

C.43.06.50 HEAT EXCHANGER



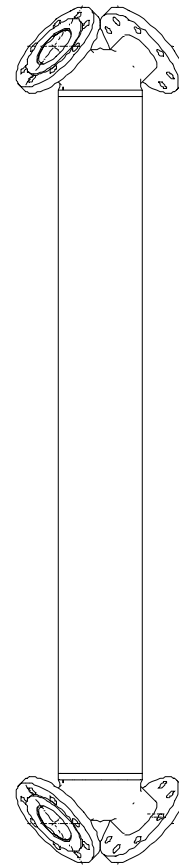
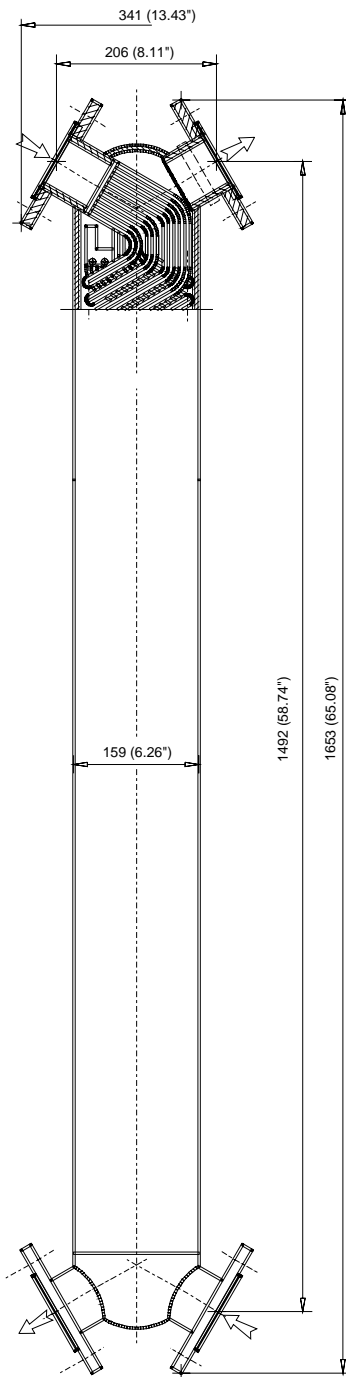
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|---------------------------|--|--|
| Type | C.43.06.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes \varnothing 8 mm |
| | size | 43.04 ft ² (4.0 m ²) |
| Connections | | |
| | tube side | 2 1/2" FNPT Die Formed Flanges (compatible to 2 1/2" CL 300) |
| | shell side | 2 1/2" FNPT Die Formed Flanges (compatible to 2 1/2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 3.01gal (11.4 L) |
| | tube side | 1.93gal (7.3 L) |
| Weight | | |
| | threaded connections | 85.3lb (38.7 kg) |
| | flanged connections | 95.9lb (43.5 kg) |

C.33.80.50 HEAT EXCHANGER



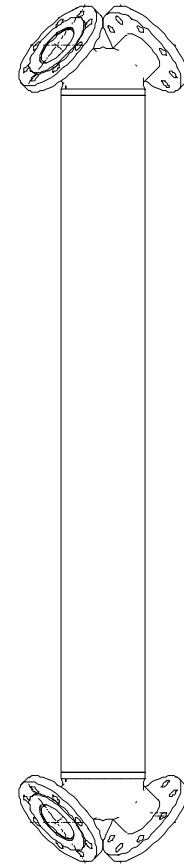
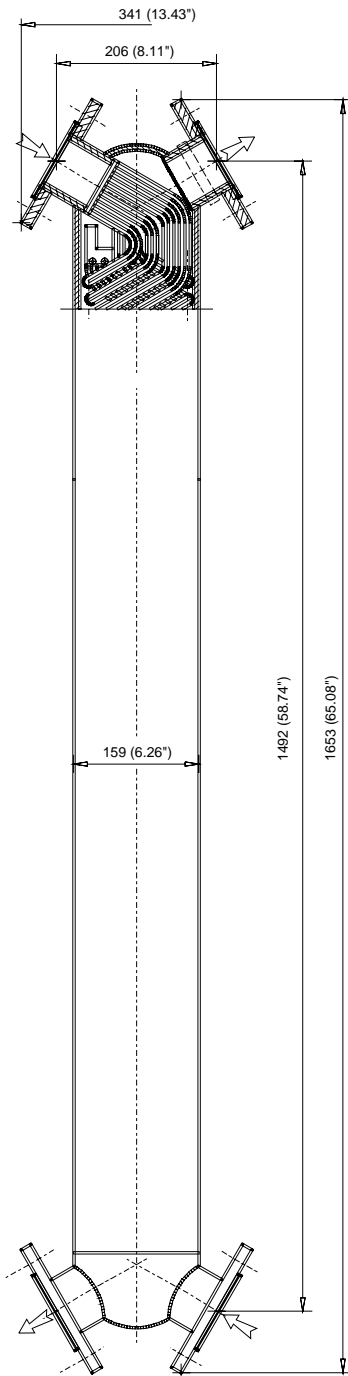
| | | |
|---------------------------|--|---|
| Type | C.33.80.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes Ø 8 mm |
| | size | 33.79 ft ² (3.14 m ²) |
| Connections | | |
| | tube side | 2 1/2" Die Formed Flanges (compatible to 2 1/2" CL 300) |
| | shell side | 2 1/2" Die Formed Flanges (compatible to 2 1/2" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 2.58gal (9.8 L) |
| | tube side | 1.20gal (4.5 L) |
| Weight | | |
| | threaded connections | 68.3lb (31.0 kg) |
| | flanged connections | 77.2 lb (35.0 kg) |

P.61.35.50 HEAT EXCHANGER



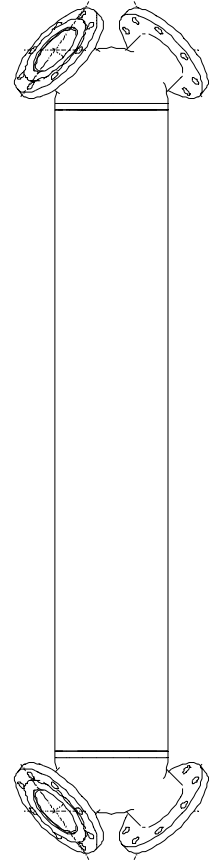
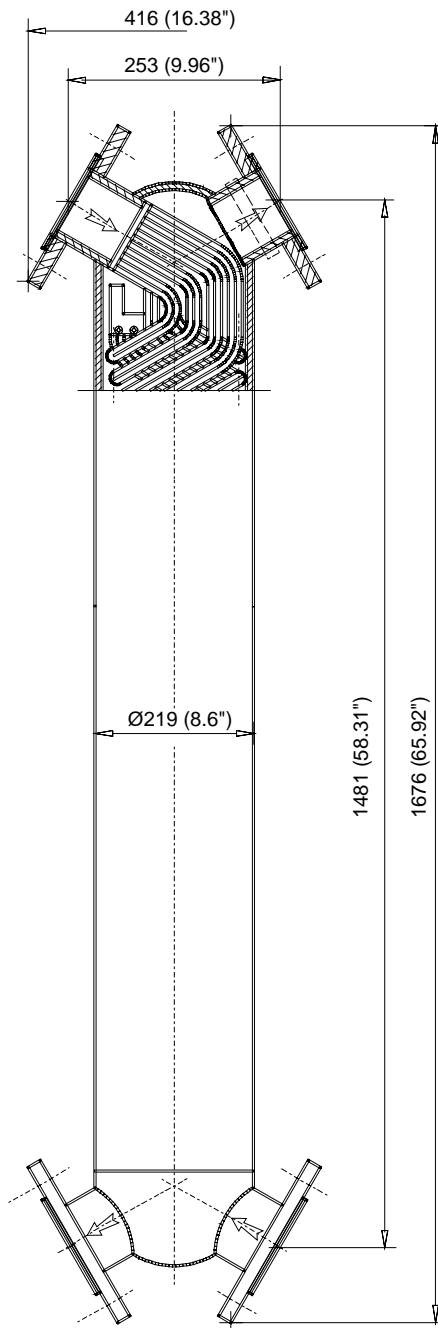
| | | |
|---------------------------|--|---|
| Type | P.61.35.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | smooth tubes \varnothing 8 mm |
| | size | 61.33ft ² (5.7 m ²) |
| Connections | | |
| | tube side | 3" Die Formed Flanges (compatible to 3" CL 300) |
| | shell side | 3" Die Formed Flanges (compatible to 3" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 3.96gal (15.0L) |
| | tube side | 2.56gal (9.7 L) |
| Weight | | |
| | threaded connections | 101.4lb (46.0 kg) |
| | flanged connections | 121.3lb (55 kg) |

C.61.35.50 HEAT EXCHANGER



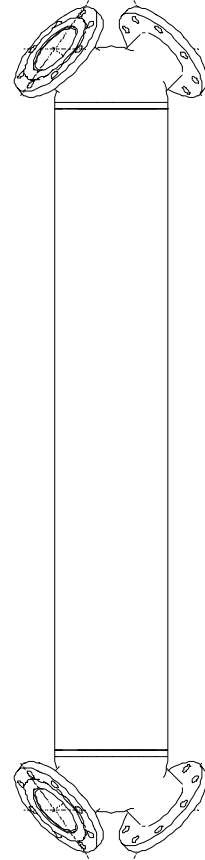
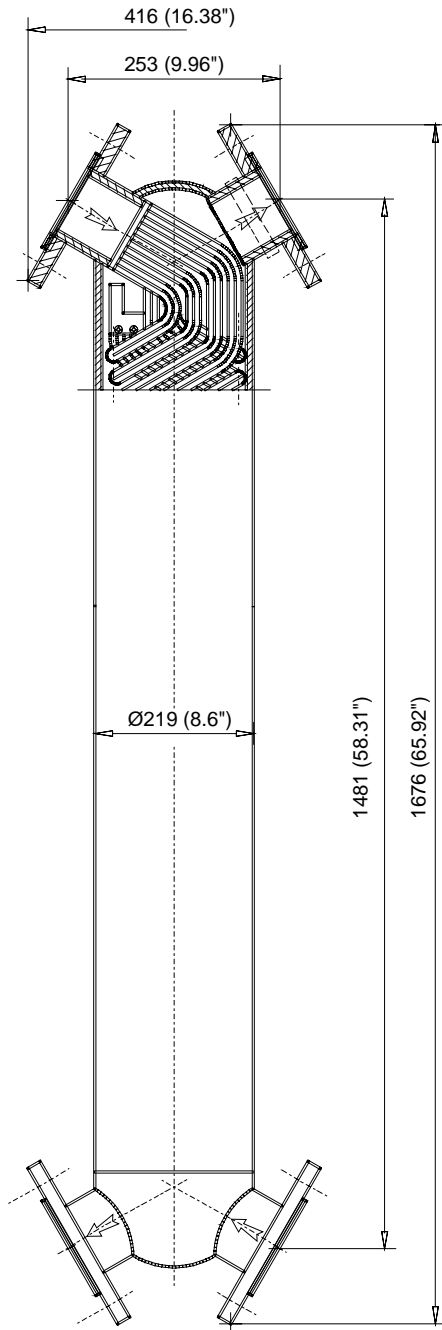
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|---------------------------|--|---|
| Type | C.61.35.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes \varnothing 8 mm |
| | size | 61.33ft ² (5.7 m ²) |
| Connections | | |
| | tube side | 3" Die Formed Flanges (compatible to 3" CL 300) |
| | shell side | 3" Die Formed Flanges (compatible to 3" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 3.96gal (15.0L) |
| | tube side | 2.56gal (9.7 L) |
| Weight | | |
| | threaded connections | 101.4lb (46.0 kg) |
| | flanged connections | 121.3lb (55 kg) |

P.107.64.50 HEAT EXCHANGER



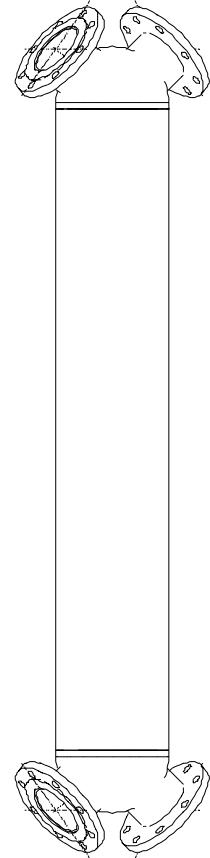
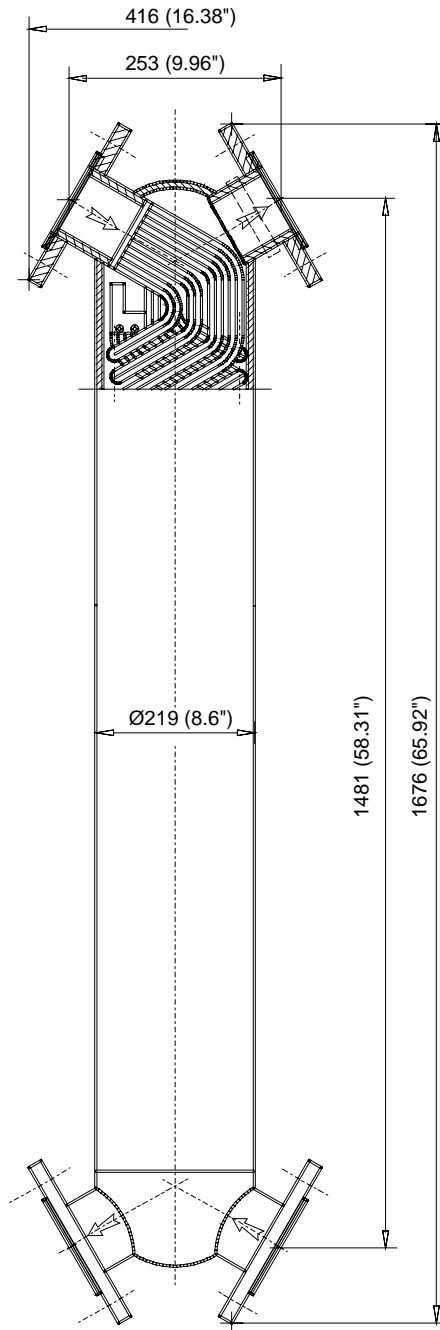
| | |
|---------------------------|---|
| Type | P.107.64.50 counter flow heat exchanger |
| Working Pressure | 250 psi @ 406 F |
| Working Temperature | min -4 F to max 406 F |
| Hydraulic Characteristics | logarithmic |
| Heat Transfer Surface | |
| type | smooth tubes \varnothing 8 mm |
| size | 107.6 ft ² (10.0 m ²) |
| Connections | |
| tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L |
| Volume | |
| shell side | 7.66gal (29.0 L) |
| tube side | 4.23gal (16.0 L) |
| Weight | |
| flanged connections | 209.4lb (95.0 kg) |

C.107.64.50 HEAT EXCHANGER



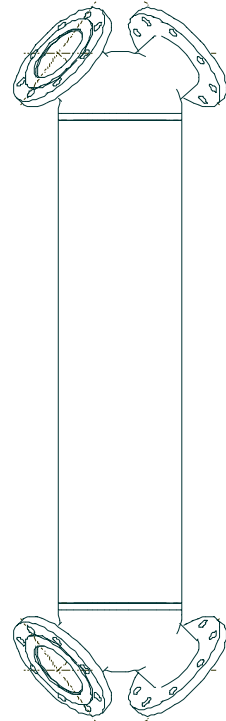
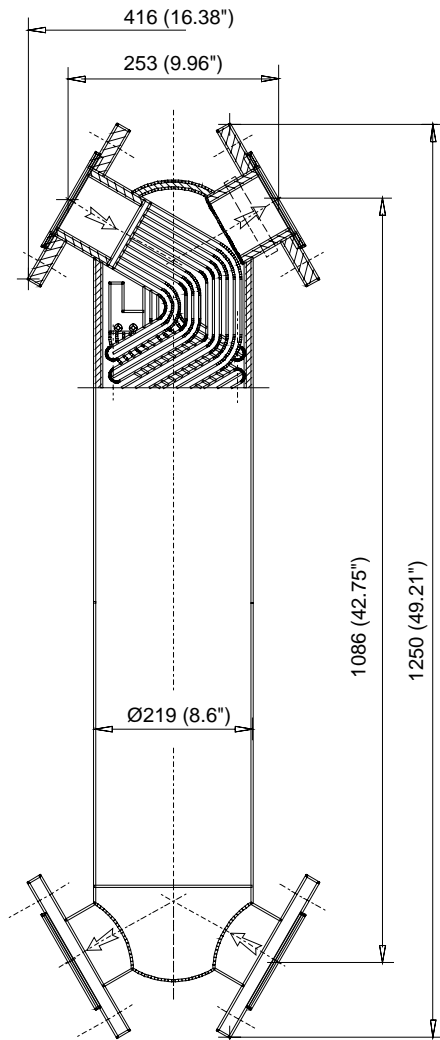
| | | |
|---------------------------|---|---|
| Type | C.107.64.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes Ø 8 mm |
| | size | 107.6 ft ² (10.0 m ²) |
| Connections | | |
| | tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| | shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 7.66gal (29.0 L) |
| | tube side | 4.23gal (16.0 L) |
| Weight | | |
| | flanged connections | 209.4lb (95.0 kg) |

C.73.41.50 HEAT EXCHANGER



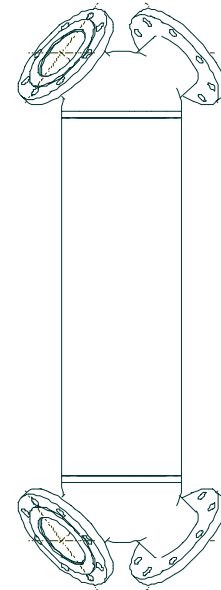
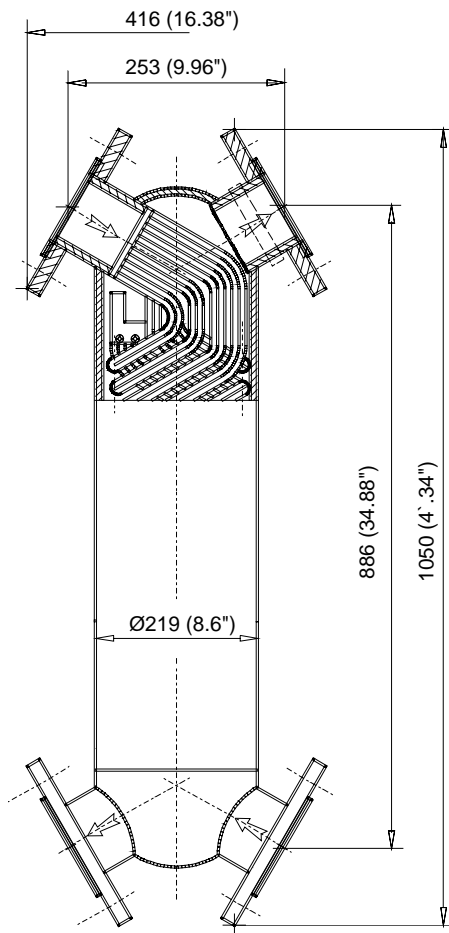
| | | |
|---------------------------|--|---|
| Type | C.73.41.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes $\text{Ø} 12$ mm |
| | size | 73.38 ft ² (6.82 m ²) |
| Connections | | |
| | tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| | shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 9.24 gal (35.0 L) |
| | tube side | 2.64 gal (10.0 L) |
| Weight | | |
| | flanged connections | 198.4lb (90.0 kg) |

C.59.20.50 HEAT EXCHANGER



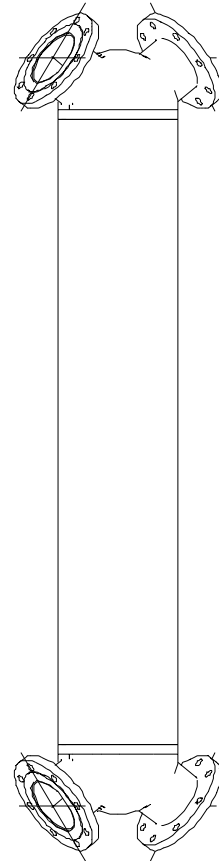
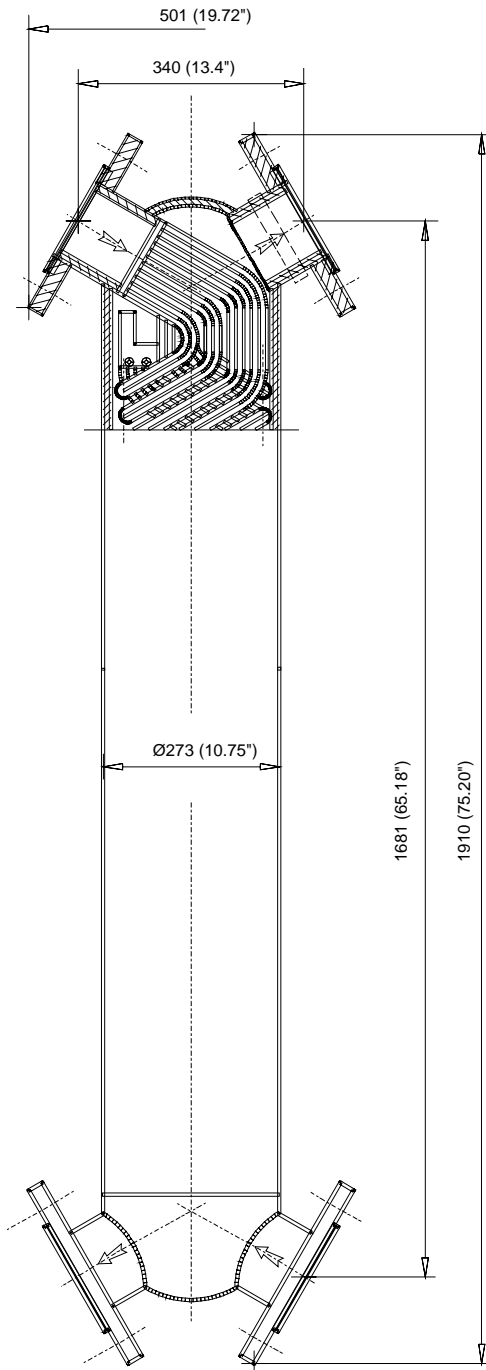
| | | |
|---------------------------|--|---|
| Type | C.59.20.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes Ø 8 mm |
| | size | 59.18 ft ² (5.5 m ²) |
| Connections | | |
| | tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| | shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 6.60 gal (25 L) |
| | tube side | 2.16 gal (8.2 L) |
| Weight | | |
| | flanged connections | 127.42 lb (57.8 kg) |

C.44.13.50 HEAT EXCHANGER



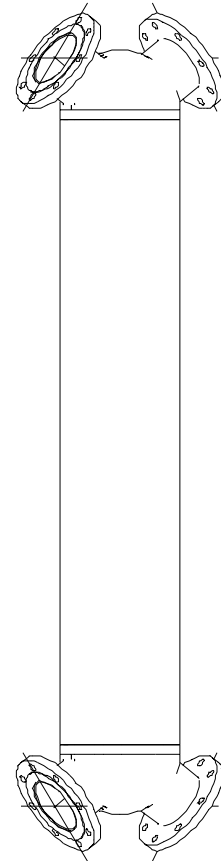
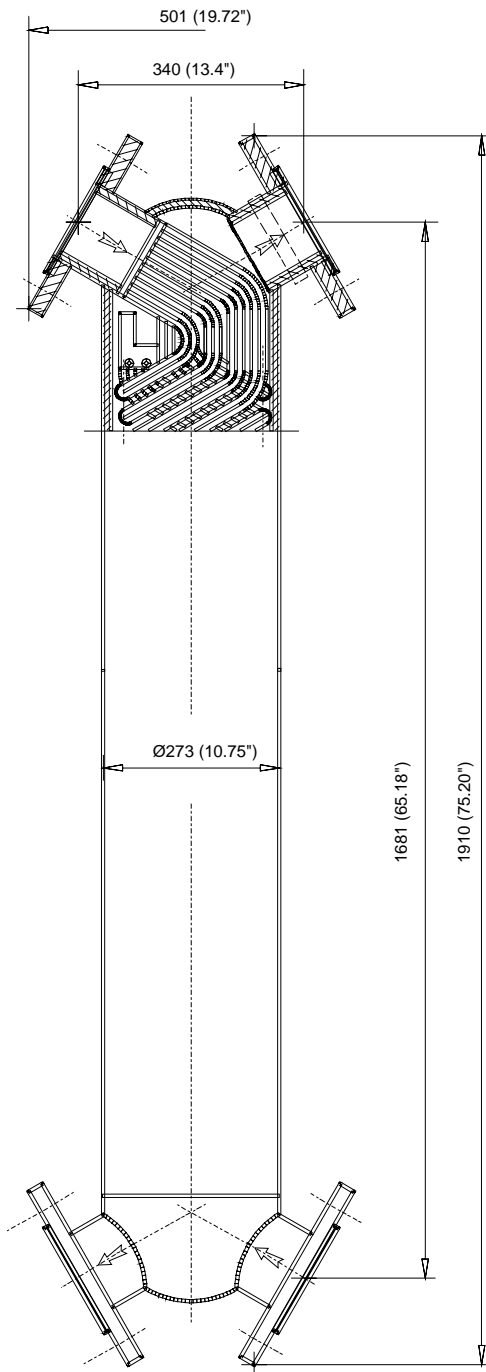
| | | |
|---------------------------|--|---|
| Type | C.44.13.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes Ø 8 mm |
| | size | 44.12 ft ² (4.1 m ²) |
| Connections | | |
| | tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| | shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 5.49 gal (20.8 L) |
| | tube side | 1.74 gal (6.6 L) |
| Weight | | |
| | flanged connections | 117.50 lb (53.3 kg) |

P.188.37.50 HEAT EXCHANGER



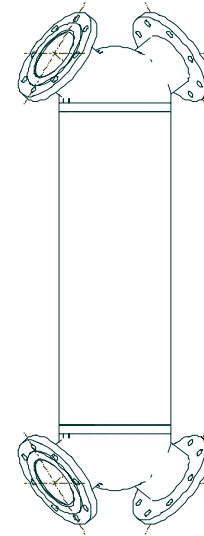
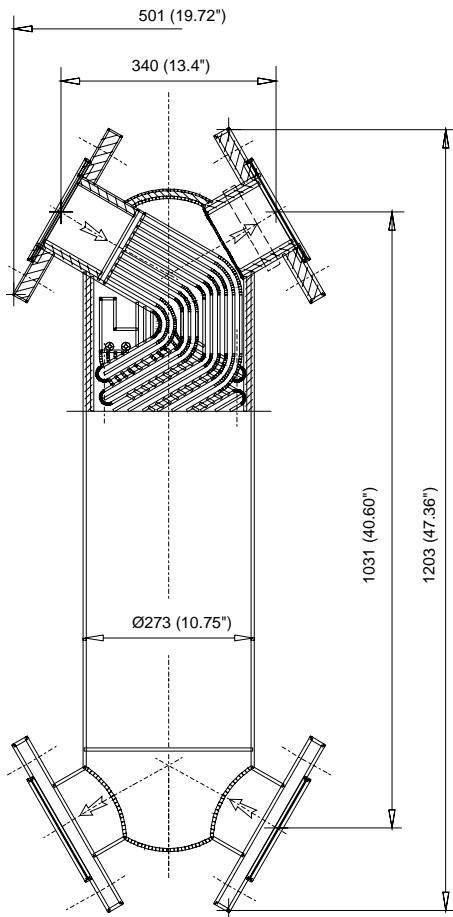
| | | |
|---------------------------|---|---|
| Type | P.188.37.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | smooth tubes \varnothing 8 mm |
| | size | 188.3 ft ² (17.5 m ²) |
| Connections | | |
| | tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| | shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 14.32gal (54.2 L) |
| | tube side | 5.31gal (20.1 L) |
| Weight | | |
| | flanged connections | 330.7lb (150.0 kg) |

C.188.37.50 HEAT EXCHANGER



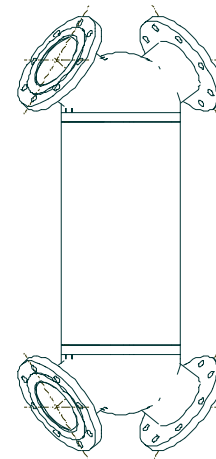
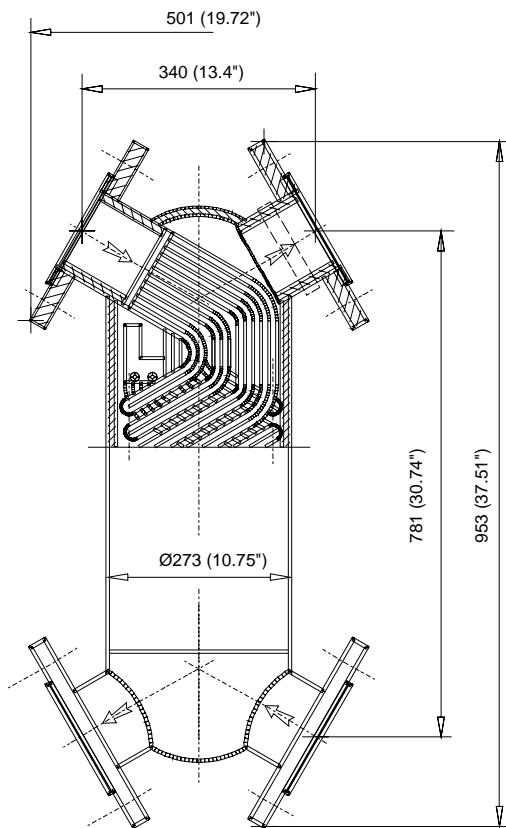
| | |
|---------------------------|---|
| Type | C.188.37.50 counter flow heat exchanger |
| Working Pressure | 250 psi @ 406 F |
| Working Temperature | min -4 F to max 406 F |
| Hydraulic Characteristics | logarithmic |
| Heat Transfer Surface | |
| type | corrugated tubes Ø 8 mm |
| size | 188.3 ft ² (17.5 m ²) |
| Connections | |
| tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L |
| Volume | |
| shell side | 14.32gal (54.2 L) |
| tube side | 5.31gal (20.1 L) |
| Weight | |
| flanged connections | 330.7lb (150.0 kg) |

C.76.42.50 HEAT EXCHANGER



| | | |
|---------------------------|--|---|
| Type | C.76.42.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes Ø 12 mm |
| | size | 76.39 ft ² (7.1 m ²) |
| Connections | | |
| | tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| | shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 10.16 gal (38.5 L) |
| | tube side | 2.64 gal (10 L) |
| Weight | | |
| | flanged connections | 170.85 lb (77.5 kg) |

C.59.74.50 HEAT EXCHANGER



| | | |
|---------------------------|--|---|
| Type | C.59.74.50 counter flow heat exchanger | |
| Working Pressure | 250 psi @ 406 F | |
| Working Temperature | min -4 F to max 406 F | |
| Hydraulic Characteristics | logarithmic | |
| Heat Transfer Surface | | |
| | type | corrugated tubes Ø 12 mm |
| | size | 59.72 ft ² (5.55 m ²) |
| Connections | | |
| | tube side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| | shell side | 4" Die Formed Flanges (compatible to 4" CL 300) |
| Material | stainless steel AISI 316L | |
| Volume | | |
| | shell side | 7.65 gal (29 L) |
| | tube side | 2.11 gal (L) |
| Weight | | |
| | flanged connections | 146.38 lb (68.1kg) |

SEC Heat Exchanger Quote Form



**To find out which type of our heat exchangers
will best suit your requirements
please complete this form and send it to us**

Name: _____ Company: _____

Address: _____ City: _____

State: _____ Country: _____ Zip Code: _____

Phone: _____ Fax: _____ Email: _____

Project Reference: _____ Quantity: _____

Material of Construction: _____

Type Of Heat Exchanger: _____ Delivery Required by: _____ In Weeks

SIDE 1

SIDE 2

FLUID TYPE: _____

FLOW RATE: _____

INLET TEMPERATURE: _____ C° or F°

_____ C° or F°

OUTLET TEMPERATURE: _____ C° or F°

_____ C° or F°

ALLOWABLE

PRESSURE DROP: _____

DESIGN PRESSURE: _____

Optional Data

If Known: _____

HEAT TRANSFERRED

(CAPACITY): _____

DENSITY @

TEMPERATURE: _____

THERMAL

CONDUCTIVITY: _____

SPECIFIC HEAT: _____

VISCOSITY: _____

PHASE CHANGE: _____

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