

Major Componentry:

Shell and Tube Heat Exchangers

Quantity: 4 x 6.13 m² / 66 ft² Eff. Heat Transfer Area

Material: 304L SS Shell/Tubes

MAWP: 2630 kPag / 381 psig @ 500 °C / 930°F, 300# flanged connections

Additional Info: Approx. max duty capability ~3.8 MW

Electric Process Heaters

Quantity: 2 x 0.324 m / 12.75" OD x 2.337 m / 7'-8" L w/ 300 kW Immersion Heater

Material: 304L SS Shell / Alloy 800 Heating Elements

MAWP: 2630 kPag / 381 psig @ 500 °C / 930°F, 300# flanged connections

Additional Info: Approx. heat transfer area ~9.4 m² / 100.4 ft². Max. heater duty 300 kW

Reactor

Quantity: 1 x 0.457 m / 18" OD x 2.425 m / 8' L

Material: 304L SS

MAWP: 2630 kPag / 381 psig @ 500 °C / 930°F, 300# flanged connections

Slurry Vessel

Quantity: 1 x 1.067 m / 42" OD x 1.763 m / 5'-9.375" L

Material: CS

MAWP: 100 kPag / 14.5 psig @ 200 °C / 392°F, 150# flanged connections

High Temperature Separators

Quantity: 1 x 18" OD / 7' L; 1 x 12.75" OD / 8' L; 1 X 24" OD / 6' L;

Material: 304L SS

MAWP: 2630 kPag / 381 psig @ 500 °C / 930°F, 300# flanged connections

Low Temperature Separators

Quantity: 2 x 24" OD / 6' L

Material: CS

MAWP: 2630 kPag / 381 psig @ 200 °C / 392°F, 300# flanged connections

Trommel Separator

Quantity: 1 x 0.610 m / 24" OD x 4.064 m / 13'-4" L

Material: 304L SS

MAWP: NR

Additional Info: 5 hp

Cooling Screw Conveyor

Quantity: 1 x 0.168 m / 6-5/8" OD x 5.18 m / 17' L

Material: CS

MAWP: 690 kPag / 100 psig @ 120 °C / 248°F, 150# flanged connections

Additional Info: Approx. heat transfer area ~1.46 m² / 15.7 ft². Max. duty 47 kW

Feed Hopper W/ Chain Drag

Quantity: 1 x 6' W / 10' L

Material: CS

MAWP: NA

Additional Info: 2 hp

Feed Screw Conveyor

Quantity: 1 x 0.168 m / 6-5/8" OD x 5.18 m / 17' L

Material: CS

MAWP: 690 kPag / 100 psig @ 120 °C / 248°F, 150# flanged connections