

Equipment Summary

Compressors:

Carbon steel W = 1167 W 80% adiabatic efficiency	D-401 A/B Electric/explosion proof W = 1180 W 99% efficiency
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Heat Exchangers:

E-101 Carbon steel cw in shell, process fluid in tubes 1 shell-2 tube passes Q = 51616 kW A = 4019 m ²	E-104 Carbon steel Process fluid in shell, cooling water in tubes 1 shell-2 tube passes Q = 13261 kW A = 1636
E-102 Carbon steel Boiling in shell, process fluid in tubes 1 shell-2 tube passes Q = 5999 kW A = 672 m ²	E-105 Carbon steel Boiling in shell, steam condensing in tubes 1 shell-2 tube passes Q = 17040 kW A = 771
E-103 Carbon steel Boiling in shell, steam condensing in tubes 1 shell-2 tube passes Q = 19716 kW A = 1636 m ²	E-106 Carbon steel Process fluid in shell, cooling water in tubes 1 shell-2 tube passes Q = 17146 kW A = 718

Fired Heater:

H-101 Fired heater-refractory-lined, stainless steel Design Q = 41408 kW Maximum Q = 45000 kW
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Pumps:

P-101 A/B Centrifugal /electric drive Carbon steel W = 8.1 kW 80% efficiency	P-102 A/B Centrifugal /electric drive Carbon steel W = 3.1 kW 80% efficiency
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Reactors:

R-101 Carbon steel, packed bed Cylindrical catalyst pellet Void fraction = 0.4 V = 25 9.26 m tall, 1.85 m diameter

Towers:

T-101 Carbon steel D = 3 m 18 sieve trays 100% efficient Feed on tray 9 12-in tray spacing 1-in weirs Column height = 18.6 m	T-102 Carbon steel D = 6.9 m 40 sieve trays 100% efficient Feed on tray 40 6-in tray spacing 1-in weirs Column height = 24.1 m
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Vessels:

V-101 Horizontal L/D = 3 (Heuristic 4) V = 26.8 m ³	V-102 Horizontal L/D = 3 (Heuristic 4) V = 5 m ³
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