

Diesel Desulfurization Unit Sale Package Information

1.0 General Information

Description: Diesel distillate hydrogen desulfurization process unit

Application: Diesel distillate H₂S removal

Treatment Capacity:

Raw Diesel Distillate:

Rated: 1,500 L/hr

Maximum: 1,000 L/hr

Minimum: 500 L/hr

Raw Diesel Distillate H₂S Concentration: ≤2,500 ppmv

Target H₂S Concentration in Treated Diesel Distillate: <50 ppmv

2.0 Equipment List

P&ID Tag No.	Description	Capacity	Size	Design
E-6000	Diesel Desulfurization Electric Heater	200 kW	-----	4600 kPag @ 450 °C / -40 °C
T-6020	Diesel Desulfurization Column (fixed bed)	1000 L/hr	30" OD X 33'-0" s/s	4600 kPag @ 450 °C / -40 °C
E-6010	Cold Diesel Preheater (BEU)	185 kW	10.75" OD X 10'-0" TS/S	4600 kPag @ 450 °C / -40 °C
E-6030	Hydrogen Air Cooler	385 kW	N/A	4600 kPag @ 450 °C / -40 °C
V-6040	Hydrogen Separator	-----	18" OD X 5'-0" s/s	4600 kPag @ 100 °C / -29 °C
V-6050	Solid Media H ₂ S Scrubber	-----	84" OD X 5'-0" s/s	4600 kPag @ 100 °C / -29 °C
V-6060A/B	Hydrogen Pressure Swing Absorber	-----	-----	-----
K-6070A/B	Hydrogen Compressor	900 Nm ³ /hr @ 1737 kPa	-----	Power: 30 kW
E-6080	Hydrogen Preheater (BEU), 2 in Series	104 kW	10.75" OD X 10'-0" TS/S	4600 kPag @ 450 °C / -40 °C
V-6100	Low Pressure Hydrogen Separator (vertical 2-phase)	-----	18" OD X 5'-0" s/s	100 kPag @ 100 °C / -29 °C
P-6110	Desulfurized Diesel Pump	1500 L/hr @ 345 kPa TDH	-----	-----

Additional Equipment Included in Package:

- All instrumentation as shown on the P&IDs
- All piping, fittings and valves as shown on the P&IDs
- All control valves, regulators, and pressure safety valves as shown on the P&IDs
- Programmable logic controller
- Equipment skids & Support
- Documentation: