

Technical Specification Summary — Pump Skid Unit

General Description

Self-contained skid-mounted pumping and filtration system designed for diesel, fuel, or lubricant transfer applications. The unit is assembled on a structural steel skid with integrated piping, filtration, motor-driven pump set, control panel, and weatherproof canopy.

Parameter	Estimated Range
Flow Rate	5–50 m ³ /hr
Pump Type	Centrifugal
Motor Size	3–15 kW
Voltage	380–415V, 3 Phase
Filtration	Inline cartridge/basket
Mounting	Skid-mounted
Duty	Continuous

Item No.	Major Component	Description / Features
1	Structural Skid	Heavy-duty fabricated steel base frame with powder-coated industrial blue finish, forklift/lifting compatible design, and integrated weather protection canopy with corrugated roof sheeting
2	Pump Assembly	Horizontal centrifugal pump arrangement, electric motor driven, direct coupled configuration, mounted on common steel baseplate with flexible coupling and coupling guard protection
3	Electric Motor	Industrial TEFC (Totally Enclosed Fan Cooled) electric motor, likely 3-phase, foot-mounted, suitable for continuous-duty operation
4	Filtration System	Inline vertical filter housing with stainless steel or coated steel construction, serviceable cartridge/basket type filter, and differential pressure monitoring gauges
5	Piping System	Carbon steel process piping with flanged connections, installed isolation valves, flow direction indicators, and pressure instrumentation
6	Valves & Instrumentation	Manual isolation valves, pressure gauges on suction/discharge lines, process flow direction labeling, and instrument tapping points
7	Electrical Control Panel	Weatherproof control panel enclosure with start/stop controls, status indication lamps, emergency stop functionality, and motor protection/control circuitry
8	Safety Features	Rotating equipment guards, enclosed electrical wiring, elevated canopy protection, industrial skid containment layout, and emergency shutdown control
9	Baseplate & Mounting Arrangement	Common steel equipment mounting platform designed for vibration stability and equipment alignment
10	Coupling Guard	Protective guard covering rotating coupling assembly for operator safety
11	Pressure Gauges	Installed pressure monitoring gauges for operational monitoring and filter condition indication
12	Isolation Valves	Manual shut-off valves for maintenance isolation and flow control
13	Weather Canopy	Roofed structural canopy providing protection from outdoor environmental conditions

14	Cable Management System	Protected electrical cable routing from control panel to motor and instrumentation
15	Process Flow Indicators	Directional arrows and labeling fitted to piping system for operational clarity
16	Filter Vessel	Vertical cylindrical filtration vessel designed for fluid cleaning and contaminant removal
17	Suction & Discharge Manifolds	Process piping arrangement for fluid intake and discharge routing
18	Emergency Stop System	Integrated emergency shutdown pushbutton mounted on control panel for rapid isolation of operation
19	Instrumentation Ports	Provision for pressure and maintenance instrumentation connections
20	Industrial Protective Coating	Corrosion-resistant painted finish suitable for outdoor and industrial environments



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