

TECHNICAL SPECIFICATIONS

1. Pump

Model : SP 150 – 8 (Subject for change)
Rated Flow : 190 GPM
Rated Head : 125 meters
Material (Pump) : Stainless Steel
(Impeller) : Stainless Steel
Rated Speed : 3,450 RPM
Frequency : 60 hz
Pump Outlet : RP3/NPT 3”
Pump liquid : Water

2. Motor

Rated Voltage : 230 volts
Rated Power : 15 hp/11.25kw
Frequency : 60 hz
Diameter : 6”
Phase : 3phase
Material : Stainless Steel

3. Pipes

Riser : 4” diameter, Black Iron Seamless Super pipe, 20feet (6m) length,
Discharge : 4” diameter. Black Iron Seamless Super pipe, painted

4. Gate Valves

Type : Flange
Cast Iron Body, Bonnet & Wedge • Brass Trim • Stainless Steel Stem • Graphite
Packing
Non-Rising Stem
Duty: Water
Pressure Rating : PN16

5. Flow Meter

Size : 4” diameter
Type : Flange
Body : Cast Iron
ISO 9002/ ISO 4064 standards

6. Coupling

Riser: France 4” diameter

7. Submersible Cable

AWG # 6 cores with jacket, outer sheath(insulation) is made from high abrasion material, double sheathed, 120m
Standards: UL83, ASTM B3, ASTM B8
Oil and water resistant, 90°C
Conductor: Copper

8. Generator Set

Capacity: 50 kva standby
Phase: Single
Voltage: 230 volts
Speed: 1800 rpm
Standards: ISO 9001, UL
Frequency: 60 hz (+/- 0.25%)
Voltage Regulation: at least 0.5% from no load to full load
Fuel System: Diesel, with fuel filter and auto shut off, Direct Injection
Battery: 24 volts
Charging capacity of Alternator: 40 amps
Air cleaner: dry element, replaceable
Filters: oil and fuel
Cooling: ambient temp at 100°C, heat exchanger/ radiator

Control

- Off/Manual/ Auto selector switch - Selects mode of operation.
- Manual Run/Stop Switch - Press switch when mode switch is in manual to start engine.
- Panel Lamp Test Switch - Press switch to test panel lamps.
- Emergency Stop Switch - Press switch to stop engine. The switch must be pulled out after emergency stop is initiated.
- Configuration - Alpha-Numeric display with common LED indicating lamps.
- Overspeed Shutdown - Panel shuts engine down if it exceeds pre-set limit.
- Low Oil Pressure - Low oil pressure alarm and engine shutdown when oil pressure falls below set points.
- High Coolant Temperature - High coolant temperature alarm and engine shutdown when coolant temperature exceeds setpoints.
- Low Coolant Level - Warning when coolant level falls below sensor. Possible engine shutdown.
- High and Low Battery Voltage - Warning when battery exceeds or falls below setpoints.
- Weak Battery - Warning when battery charge level falls below setpoint.
- Dead Battery - Engine shutdown when battery fails.
- Fail to Start - Overcrank shutdown when engine does not start in a set time.
- Fail to Crank - Engine shutdown because starter does not rotate engine crankshaft.
- Redundant Start Disconnect - Activated with too many start attempts.
- Cranking Lockout - Prevents engine from cranking.
- Sensor Failure - Indicate when a sensor has failed
- Fuel level display

9. Variable Frequency Drive (VFD)
 - Power Capacity : 30 hp
 - Mode : Single phase in Three phase out
 - Rated voltage : 230 volts (+/- 10%)
 - Frequency: 0 to 60 hz
 - Protection : Over/under voltage , Over current, Over temp., pressure control setting
 - Phase reversal protection

10. MTS (Manual Transfer Switch)
 - Capacity: 200 amperes
 - Protection : interlocking
 - Enclosure ; NEMA 1
 - Panel : Emergency/ Main Pilot lamp indicators
 - 2x2 terminal in, 2 terminal out