



# PUMP DOWN UNIT



SPC Rentals' Pump Down Unit allows customers to continue operations even when frac equipment is out of service. For more time intensive jobs, SPC's Pump Down Units are ideal as they are more efficient and have better turnaround time than frac equipment.

SPC's units have 2,250 HP diesel engines, which provide power through the drive train to the quintuplex pump. During normal operation, liquid flows from an onsite storage tank through the centrifugal charge pumps to the charge quintuplex while simultaneously filling the on board displacement tank. This piping design allows fluid to be pumped from the storage tank downhole while personnel are mixing chemicals.

Once proper chemicals are mixed in the 10 BBL displacement tank they can be pumped downhole on the fly. Redundant controls and monitoring capabilities also ensure safety is a primary component of a job well done.





## Specifications

### 2,250 Diesel Engine

### Trailer Mounted

### 10 BBL Displacement Tank

### Engine, Transmission and Pump Control

- Redundant controls – local panel, remote or data acquisition van
- Display – 15" touch screen with analog controls mounted in NEMA 4X enclosure
- Monitoring and controls via J1939
- Over pressure trip – Shifts the transmission into neutral in over pressure situations.

### Low Pressure Piping

Fluid-handling, color-coded schematic etched into control panel for easy identification and operation

### Data Acquisition

- All engine and transmission data via J1939
- Discharge pressure
- Rate (BBL)
- Total (BBL)
- Suction pressure
- Lube oil temp
- Lube oil pressure

### Quintuplex Plunger Pump

- 4" plunger diameter with 2.17 gal/rev output
- Range of 326 GPM to 716 GPM at 2,500 BHP input power
- Range of 5,386 PSI to 15,315 PSI at 2,500 BHP input power

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