



SERVA Cementer Units

The PCTLR-721A Double Pump Cementing Trailer is a complete mixing and pumping unit that is trailer mounted. This unit is state-of-the-art in mixing and automatic control. This system is designed for the most demanding oil and gas well cementing requirements. The quality of design, component selection and manufacture makes it a benchmark in the industry. The high energy mixing system can mix the most difficult slurries and the automatic density control provides superior density control. The 20 bbl averaging tank makes the operator's job easier.

Major Components

- (1) SERVA TPD600 X 3" Dia. Plunger Triplex Pump (Left Pump)
- (1) SERVA TPD600 X 3" Dia. Plunger Triplex Pump (Right Pump)
- (2) CATERPILLAR C13 Engines, 500 Hp each
- (2) ALLISON 4700 OFS Transmissions
- (1) 7 bbl Mixing Tank
- (1) 20 bbl Averaging Tank
- (1) 20 bbl Displacement Tank
- (2) SERVA 6x5 Centrifugal Pumps (slurry recirculation and transfer)
- (1) MISSION 4x3 Centrifugal Pump (mix water or displacement fluid)
- (1) Density Automatic Control System (ACM-III) (density control)
- (1) Auxiliary Power Pack with closed-loop hydraulic system
- (1) Air Reservoir, 40 gal
- Radiator Cooling of engines and hydraulics

Specifications

Temperature

- Minimum Operating -25°C (-13°F)
- Maximum Operating 50°C (122°F)

Triplex Pump Fluid Ends Size

- Right Pump 3" dia. plunger
- Left Pump 3" dia plunger

Pressure Range

- Maximum Working
Pressure 103 MPa (15,000 psi) w/3" plunger pump
- Maximum Test
Pressure 117 MPa (17,000 psi) w/3" plunger pump

NOTE: Also Available – PCTLR-521A Double Pump Cementing Trailer (TPH400 Pumps, 4" - 14,000 lb. Discharge press., no averaging tank)

Call SERVAGroup today 940-761-3361

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Specifications

Flow Rate

- Maximum Theoretical Total Flow Rate.....3.3 m³/min (21 BPM)

Density Range of Slurry

- Maximum Slurry Weight..... 1.0–2.7 g/cm³ (8.33–22.6 lb/gal)

Slurry Mixing Capacity Range

- Mixing Range.....0–2.3 m³/min (0–14.4 BPM)

Automatic Control Density Tolerance

- When mixing in automatic control mode, the density ranges can be controlled to within ± 0.01 to 0.024 g/cm^3 (± 0.83 to $.200 \text{ lb./gal}$) of indicated densitometer reading during near steady state operations. This assumes reasonable steady output of bulk delivery system.

Continuous Working Time

- Rated WP at 103 MPa (15,000 psi)..... 2 hours
- Maximum Flow Rate..... ≥ 1 hour

Engine

- Model.....Caterpillar C13
- Rated Power.....500 Hp @ 2100 rpm

Transmission

- Allison 4700 OFS Automatic Transmission with fill tube, dip stick gauge, torque converter, and 1810 series output flange

Trailer Dimensions and Weight

- Cements Gross Weight without Iron, dry.....58,000 lb. (less tractor)
- Cements Gross Weight with Iron, dry.....60,000 lb. (less tractor)
- Tractor Weight Estimate..... 15,000 lb.
- Gross Weight with Tractor and Iron (estimate)..... 75,000 lb.
- Length without averaging tank..... 34 ft. (10,363 mm)
- Length with averaging tank..... 38 ft. (11,582 mm)
- Width.....102 in. (2,540 mm)
- Height (to top of valves on displacement tank).....152.5 in. (3.87 m)
- Trailer..... Single Drop 34 or 38 ft. (depending on averaging tank inclusion)

Mixing Centrifugal Pump

- 4x3

Re-circulating Centrifugal Pump

- Dedicated 6x5

Boost Centrifugal Pump

- Dedicated 6x5

ACM-III System (Density Auto Control System)

- Mixing Capacity.....0–2.3 m³/min (0–14.5 BPM)
- Density Range..... 1–2.6g/cm³ (22 PPG)

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