



SERVA Blender Units - 130 bbl/min

The SERVAgrou BSTLR-322A 130 BPM Blending Unit is a heavy-duty fluid preparation and Proppant-proportioning unit which can execute a fracturing pumping design controlling both suction and discharge functions and the addition of Proppant in ramp or stage modes. The blender unit includes a tandem axle off-road trailer and a deck mounted 800 Hp diesel engine.

Liquid additives that are to be run on a continuous basis during a treatment are monitored and controlled by the central control panel system. Emergency stop/kill functions features allow the shutdown of the unit in extreme situations. The operation of the unit is via a climate controlled operator's cabin located on the unit to provide operator excellent visibility.

Specifications

Engine..... Caterpillar C-18 Tier 2
 Rated Power Output (Gross)..... 800 Hp (317 kW) @ 2,100 rpm
 Hydraulic Engine..... Caterpillar C-18 Tier 2, 630 Hp

Temperature

- Minimum Ambient Operating..... -20°C (-4°F)
- Maximum Ambient Operating..... 46°C (115°F)

Vibration/Shock

- Maximum shock..... 1.5g

Pressure Range

- Maximum Discharge Pressure..... 100 psi

Flow Rates

- Maximum Theoretical Total Flow Rate..... 130 BPM
- Acid Centrifugal Pump..... 24 BPM @ 80 psi

Proppant Rate

- Maximum..... 18 lbs./gal.

Centrifugal Pump

- Suction Pump..... Gorman-Rupp 12 x 12 HD
- Discharge Pump..... Mission 12 x 14 x 22 Hi-Chrome

Sand Augers

- (2) 12 in. Sand augers
- (1) 6 in. Sand auger
- Mounted at the rear of the unit and hydraulically driven

Call SERVAgrou today 940-761-3361

1500 Fisher Road • Wichita Falls, TX 76305 • info@SERVAgrou.com

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Specifications

Liquid Additive Pumps

- (4) Liquid Additive Pumps including a Chemical Transfer Pump
- Controlled from the operator's cabin and liquid addition rates are variable from 0.25 – 12 gal./min.
- Instrumentation displays mass flow rates and totals on the control console and in a separate monitoring van
- (1) Dry Additive Hopper
- Acroson unit includes one (1) 1/2 in. auger and one (1) 3 in. auger
- Fluid additive is via four (4) 100 gallon stainless steel totes, mounted on the blender chassis.

Blending Tub

- Steady-flow tub equipped with hydraulically driven mixing paddles and a quick dump outlet
- Includes a fully automatic tub leveling system and is mounted between the control cabin and augers
- Dry additive hopper will dump directly into the blending tub
- Paddle shaft bearing has external grease fitting for simplified maintenance and service.

Control Cabin

- Centrally mounted enclosed and climate controlled
- Location and design allows for excellent visibility to the blending tub and for access to the working deck of the blender
- Access via a single door, secondary emergency hatch provided

Piping & Manifolds

- Suction Manifolds and discharge manifolds have twelve (12) 4 in. and one (1) 8 in. connections with butterfly valves and hammer unions

Controls

- Master Power On/Off
- Engine Throttle
- Emergency Shutdown
- Sand Auger Control
- Tub Leveling Control Speed
- Discharge Pump Speed Control
- Engine Start
- Normal Shutdown
- Suction Pump Speed Control
- Liquid Additive Control
- Mixing Paddle Control

SGO Density Gauge

- Important: The Texas Nuclear SGO Density Gauge can only be ordered if the customer demonstrates compliance with all regulations, including and on staff RSO office and the necessary documentation.

Trailer

- Heavy-duty 2-axle oilfield trailer with air bag suspension
- Designed for maximum maneuverability and road clearance
- Location of axles specifically engineered to correctly distribute weight in proportion to kingpin and rear axles and minimize turning radius
- (8) 11R x 22.5 Off-Road Tires mounted on 8 in. x 22.5 in hub-piloted steel "bud" style wheels

Electrical System

- (1) 24 volt 60 amp Alternator
- (6) BCI-31 Batteries, located in a steel battery box mounted on the trailer deck providing excellent access for maintenance and service

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