The SERVAgroup 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**

<table>
<thead>
<tr>
<th>Engine</th>
<th>Caterpillar C-18 Tier 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Power Output (Gross)</td>
<td>800 Hp (317 kW) @ 2,100 rpm</td>
</tr>
<tr>
<td>Hydraulic Engine</td>
<td>Caterpillar C-18 Tier 2, 630 Hp</td>
</tr>
<tr>
<td>Temperature</td>
<td>- Minimum Ambient Operating -20°C (-4°F)</td>
</tr>
<tr>
<td></td>
<td>- Maximum Ambient Operating 46°C (115°F)</td>
</tr>
<tr>
<td>Vibration/Shock</td>
<td>Maximum shock 1.5g</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>Maximum Discharge Pressure 100 psi</td>
</tr>
</tbody>
</table>

**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
**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
  - Acrosun 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 Start
- Engine Throttle
- Emergency Shutdown
- Sand Auger Control
- Tub Leveling Control Speed
- Mixing Paddle Control
- Discharge Pump Speed Control
- 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