



## SERVAgrouP® MST-101A Data Van

### General Specifications

Overall Length: 28' (8.53 m)  
 Overall Width: 8' (2.44 m)  
 Overall Height: 12' 8" (3.89 m)  
 Gross Weight: 24,000 lbs. (10,909 Kg)  
 Front Axle Weight: 7,000 lbs. (3,181 Kg)  
 Rear Axle Weight: 17,000 lbs. (7,727 Kg)

### Main Components

Chassis  
 Insulated Main Cabin  
 Generator – (110 Volts or 220 Volts)  
 Monitoring System  
 Treatment Modeling  
 S.M.A.R.T.S. System  
 Wireless Radio Communication System  
 Remote Control Panels

### Main chassis

Engine: 6.6 Liter, CAT 3116, 215 BHP, Turbocharged, Aftercooled  
 Transmission: Fuller RT 6610, 10-speed  
 Axles: Front 11,000 lb.  
       Rear 22,000 lb.  
 Rear Ratio: 4.88 to 1  
 Wheel Type: 20 x 7.5  
 Tire Size: 10.00 x 20  
 Brakes: Air System  
 Alternator: 12 Volt, 100 AMP  
 Batteries: 12 Volt, 1500 CCA

### Main Body interior

Length: 144"  
 Width: 88"

Height: 84"

Seating: Two (2) Operators

Five (5) Observers

Climate Control: Three (3) Air Conditioning Units

Two (2) Heaters

### Real Time or Replay Monitoring Plots on Color Monitor

Surface Treating Pressure

Downhole Pressure or Bottomhole Pressure (Direct, Calculated or Static String derived as well as a Real Time fully compressible Foam Model for downhole pressure and foam quality calculations)

Total Pump Rate or Wellhead Rate

Proppant Concentration

Crosslinker Rate

PH of Gel

Temperature of Gel

Viscosity of Gel

A wellbore stage fluid displacement plot shows where the current stage(s) are in the treating string

A net pressure or fracturing pressure plot vs. the log of elapsed time

A staging bar graph plot showing design versus actual stage fluid volumes

Pressure vs. Square Root of Time

Pressure vs. Rate

Nolte Pressure Decline Difference vs. Dimensionless Time

Transient Skin vs. Time or Volume / Height

Paccaloni Initial Skin Step Rate Analysis



## SERVAgrouP® MST-101A Data Van

### Information Digitally Displayed in Real Time or During Replay

Surface Treating Pressure  
Downhole Or Bottomhole Pressure  
Annulus Pressure  
Friction Pressure  
Hydrostatic Head  
Transient Skin  
Fluid Volumes And Proppant Totals Per Stage And Grand Totals  
Gel Rate  
Wellhead Rate  
Proppant Concentration  
PH  
Temperature  
Specific Gravity Of Slurry  
Gas And Energized Fluid Rates

### Computer System

32 Mb of RAM  
8.0 GB hard disk  
1.44 Mb floppy disk drive  
24X CD drive  
Quad VGA board to allow multiple monitors to be displayed from each computer.  
HP Deskjet 600 series  
Three 21" VGA Monitors  
17" VGA Monitor

### Wireless Communication Equipment

Twelve Hand Held Radios (Wireless)  
Twelve Headsets with Adapters  
Two Six Port Charger Stations for radios

### Remote Frac Pump Controls

The Treatment Control Vehicle will feature eight standard 24 pin cable connections for remote control of the fracturing units.

### Miscellaneous Equipment

Eight Universal Cable Reel Assemblies that can be used for Pressure, Rate, Densimeter, or N<sub>2</sub> Target Meter/Temperature Probes.  
One Junction Box, Signal Connection.  
Two Pressure Transducer, 2" 15k.  
Two Magnetic Pickup, Flow.  
AM/FM Stereo CD Player with Four (4) Speakers in the Main Cabin.  
Coffee Maker

### Standard Accessories

5 Ton Hydraulic Jack w/Handle  
Lug Wrench  
Flare Kit Containing Three Flares (For Vehicle Emergencies)