



**VP1513**  
AIR DRILLING - N<sub>2</sub> - PIPELINE



## Built To Last

Built to sustain the toughest of elements, the rugged, open frame VP1513 dual-stage high capacity air compressor was designed for total accessibility, reliability and serviceability. Featuring field-proven rotary screw technology and user-friendly, easy to use digital controls, the VP1513 provides your Mobile Power Solution™ for a wide variety of applications.

## SPECIFICATIONS

|   |  |
|---|--|
| <b>Engine Type</b>                          | CAT® C18 TT AC ACERT™ 6 CYL., 18 L, 4 Stroke - Cycle Liquid Cooled |
| <b>Compressor Type</b>                      | Two Stage Rotary Screw Compressor                                  |
| <b>Tier</b>                                 | 3 Flex   |
| <b>BHP (kW)</b>                             | 700 (522)  |
| <b>System Voltage</b>                       | 24   |
| <b>Compressor Oil Capacity, Gal. (L.)</b>   | 50 (189.3)   |
| <b>Engine Oil Capacity, Qt. (L.)</b>        | 76 (72)  |
| <b>Radiator Coolant Capacity, Gal. (L.)</b> | 22 (83.3)  |

Dimensions (In.): 198.0 Long X 86.0 Wide X 102.6 High | Dry Weight (Lbs.): 18,100 | Wet Weight (Lbs.): 18,700

| "C" RATING                                   |             |             |
|--|-------------|-------------|
| <b>CFM (m3/min)</b>                          | 1500 (42.5) | 1300 (36.8) |
| <b>PSI (bar)</b>                             | 350 (24.1)  | 500 (34.5)  |
| <b>RPM</b>                                   | 2000        | 1800        |
| <b>Idle Speed</b>                            | 1200        | 1550        |
| <b>Engine Load</b>                           | 97%         | 97%         |
| <b>Fuel Consumption 100%</b>                 | 36 GPH      |             |
| <b>Fuel Consumption 75%</b>                  | 29 GPH      |             |
| <b>Max. Ambient Operating Temp.* °F (°C)</b> | 130 (54.5)  |             |

| "A" RATING                                   |             |            |
|--|-------------|------------|
| <b>CFM (m3/min)</b>                          | 1350 (38.2) | 950 (27)   |
| <b>PSI (bar)</b>                             | 350 (24.1)  | 500 (34.5) |
| <b>RPM</b>                                   | 1800        | 1800       |
| <b>Idle Speed</b>                            | 1200        | 1550       |
| <b>Engine Load</b>                           | 87%         | 87%        |
| <b>Fuel Consumption 100%</b>                 | 31 GPH      |            |
| <b>Fuel Consumption 75%</b>                  | 27 GPH      |            |
| <b>Max. Ambient Operating Temp.* °F (°C)</b> | 140 (60)    |            |

\*Warnings will alert to impending shutdown at 10 °F prior to maximum ambient operating temperature being reached.



Product improvement is a continuing goal. Design and specifications are subject to change without notice or obligation. VP1513\_11102017

#### **SPECIAL FEATURES**

- Heavy Duty Frame
- Convenient Service Drain Ports
- 3" Discharge Service Valve
- Four Point Lift
- Fork Lift Pockets
- Dedicated Operator on Duty Controller
- Easy-to-Navigate Operating Screen
- 110% Containment Frame
- Cold Weather Package Consisting of Ether Start Aid and 110 V Engine Block and Control Panel Heaters, Good to 0 °F

#### **DISCHARGE SYSTEM**

- High Efficiency Air / Oil Separator
- Lift Assist on Separator Lid for Easy Access
- Controls Connect on Tank Sides
- Clean, Simplified Piping and Valving
- 3" Air Lines and Ball Valves

#### **AIR COMPRESSOR**

- 2-Stage, High Pressure Airend
- Butterfly Inlet Valve

#### **OIL SPECS**

- Flash Point 261 °C / 501 °F
- Pour Point -50 °C / -58 °F
- Estimated Oil Life of 1500 – 2000 Hours. Actual Oil Life Will Be Tracked by the Controller Based on Operating Temperatures

#### **ENGINE**

- 150 AMP Alternator
- CAT® C18 TT ACERT™
- Fuel / Water Separator
- Large Capacity Oil Pan
- 24 Volt Electrical System with Two 8D Batteries
- "A" or "C" Rating Adjustable on Controller
- Spark Arrestor Muffler
- Engine Air Inlet Shutoff
- External Fuel Quick Disconnect Connections
- Ether Assist for Cold Weather
- Thermostatic Engine Fan Clutch
- 110 Volt Block Heater

#### **MAXIMUM ELEVATION**

- C Rating - 10,000 Ft.
- A Rating - 11,000 Ft.

#### **PROVEN SAFETY AND LOCKOUT FEATURES**

- E-Stop
- Lockable Battery Disconnect
- Engine/Compressor Monitoring with Warning and Shutdown

#### **INSTRUMENT CONTROL CENTER**

- Speed Control Modulation
- 360 Degree Warning Strobe
- Single Heavy Duty Control Pressure Regulator
- Viton Seated Valves for Wide Temperature Range
- LED Utility Lighting with Panel Switch
- 110 V Heaters for Cold Weather Operation

#### **DIGITAL CONTROLLER**

- Digital Controller with Temperature Range -40 °F to +185 °F
- Extreme Vibration / Moisture Proof
- System History Log
- Electronic Operator's Manual
- Easy Electronic Operating Pressure Adjustment
- International ID Symbols

#### **COOLING SYSTEMS**

- Easy-Clean Cooler Bundle
- Removable Clean Out Ports  
Simple Two Valve Block and Bypass for Aftercooler
- Automatic Aftercooler & Moisture Drain Blow Down at Shutdown

#### **ENGINE COOLING**

- Heavy Duty Radiator
- Charge Air Cooler Horizontal Design

#### **AIR COMPRESSOR COOLING**

- High Pressure Steel Oil Cooler
- (Option) Heresite Coating for Harsh Environments

#### **AFTERCOOLER**

- Thermostatic Electric Drive Fans
- High Efficiency Cyclonic Moisture Removal
- High Pressure, No Loss, Robo Drain

#### **OPTIONS/ACCESSORIES**

- Arctic Package For 0 to -40 °F Operation
- ISO Container Package for Sound Attenuation and Extreme Weather Conditions