

# **GENERON** MOBILE AIR COMPRESSOR SYSTEMS

## **Feed-Air Compressor**

Feed-Air Screw compressors gather air through an air filter at normal atmospheric pressure at an ambient temperature (up to 131°F(55°C)). The air is compressed from atmospheric 14.5 psig pressure to 350-psig (24-bar) using Sullair 2-stage compressors. A vertical cooler then cools the air to 120°F (49°C) before it is delivered through a common manifold to **GENERON®** nitrogen membranes. Each screw compressor is driven by a Caterpillar C-27 engine. Feed-air screw compressors are identical with the compressor and engine mounted inside their own Frame. Each skid contains a process cooler , a radiator for cooling the glycol , and lubrication oil used in the package. Coolers are belt driven which allows fan speeds to match operating conditions. Both the radiator and cooler are specifically mounted for easy removal.



Operating Shipping for ocean freight is the most direct and cost-effective. method of delivery or transport, Contact **Global Nitrogen & Oil Field Services** for more information at **713.937.5236** or [jfont@generon.com](mailto:jfont@generon.com).

# FEED-AIR COMPRESSOR

|                                      |  |
|--------------------------------------|--|
| <b>Quantity</b>                      | <b>1 Unit</b>  |
| <b>Compressors</b>                   | <b>GENERON Designed Sullair</b>  |
| <b>Ambient Operating Temperature</b> | <b>131°F(55°C)</b>   |
| <b>Capacity Air Discharge</b>        | <b>1500 SCFM - 1800 SCFM of air +/- 5%</b>   |
| <b>Suction Pressure</b>              | <b>Atmospheric pressure 14.7 psig (1 bar)</b>  |
| <b>Power</b>                         | <b>Caterpillar Model C-27 Engine Diesel powered 930 -hp (670 kW) at 1800 RPM on Standard Compressor or C-32 ATEX Rated on Class 1 Zone 2</b> |
| <b>Hazard Classification</b>         | <b>All electrical equipment is Class 1, Division 2 or Class 1 Zone 2</b>   |
| <b>Standards / Design Codes</b>      | <b>ASME B31.3, API RP 500</b>  |
| <b>Shut-Down Panel</b>               | <b>Murphy TTDJ-DC-T control panel</b>  |
| <b>Cooler Make &amp; Model</b>       | <b>GENERON Designed</b>  |
| <b>Weight</b>                        | <b>32,000 LBS/11943KG</b>  |
| <b>Skid Dimensions</b>               | <b>8ft 6 in. H x 8 ft W x 19 ft. 10 1/4 in. L (20-ft DNV 2.7.1 Crash Frame shipping container)</b>   |

## FEATURING:

- Balon check and discharge valves
- Piping and vessels designed and built to ASME process piping standard B31.3 (extreme cyclic duty 100% X-ray)
- Painted to Global Nitrogen Services paint specification 68.0010
- Revision M Frame built to DNV 2.7.1 and designed for 50,000 lb four point 45° lift
- Engine muffler and exhaust insulation on all packages inside structure.
- Four 24-volt fixtures and switch rated for Class 1, Division II and wired to 24-volt battery bank.
- Stainless steel equipment tags.
- PSV vent headers with a flanged skid connection
- Scrubber manual dumps to skid edge
- One 3in. Compressed air discharge lines with one blind flange and one crossover to 206 Waco hammer union with cap
- Stackable 2-high for operations in DNV 2.7.1 Crash Frames

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