



Safe Area 1500cfm Compressor Technical Specification

The Newmech Safe Area 1500 cfm Diesel Driven Compressor is suitable for use in a designated Safe Area. We have designed this machine with ease of operation and maintenance access high on our customer's priority requirements.

The Sullair compressor package is housed in our 20ft DNV 2.7-1, CSC, ISO certified container, this container has been designed and tested to allow stacking 6 high for shipping and 2 high while in operation to reduce deck space where required.

The Sullair Compressor and Caterpillar Engine are market leading manufacturers in reliability and robust operation in the harshest of conditions.

This machine has been specifically designed to operate in up to 50°C ambient temperatures and has been noise attenuated to give us 91dBa @ 1 metre. Sound pressure level of 115 dB.

The compressed air output is after cooled in a separate compartment to eliminate any recirculation of hot air, the aftercooler fan has a variable speed control so cooling can be reduced or increased as required, and this also incorporates a pressurised condensate drain which can be contained in external vessel for environmentally safe disposal.



| ENGINE | UOM | NOM. SPECIFICATION |
|-------------------------------|--------------|---------------------------|
| Make | - | Caterpillar |
| Model | - | C-18 ATAAC |
| Emission Regulations | - | US EPA Tier 2 |
| Number of Cylinders | - | 6 |
| Displacement | cu in/l | 14670 / 6654 |
| Rated Speed | rpm | 1800 |
| Idle Speed | rpm | 1400 |
| BHP @ Rated Speed | BHP/kW | 765 / 570 |
| Fuel/Cooling | - | DIESEL/WATER |
| Electrical Volts/Batteries, | CCA | 24 / 1375 |
| Engine Oil Capacity US | Litres | 34.1 |
| Radiator Coolant Capacity | Litres | 49.2 |
| Altitude Capability | Metres | (2440) |
| Fuel Consumption at 100% Load | LPH | 121.5 |
| Fuel Tank Capacity | Litres | 850 |
| Operating Time @ FULL LOAD | Hours | 7 |
| | | |
| COMPRESSOR | UOM | NOM. SPECIFICATION |
| Free-Air Delivery | cfm/m3min | 1300(36.8) 1525(43.2) |
| Rated Operating Press | psig/bar | 500(34.5) / 350(24.1) |
| Pressure Range | psig/bar | 200(3.8) / 500(34.5) |
| Service Valve | - | 3" |
| Air Discharge Outlet Quantity | - | 2 @ 4" |
| Oil Capacity Lube Oil | Litres | 182 |
| Ambient Capability, High | Degree C | 50 |
| Ambient Capability, Low | Degree C | minus 20 |
| | | |
| PACKAGE | UOM | NOM. SPECIFICATION |
| Overall Length | mm | 6050 |
| Overall Width | mm | 2437 |
| Overall Height | mm | 2895 |
| Dry Weight (No Fuel) | kg | 14,500 kgs |
| Container Certification | | DNV 2.7-1, CSC, ISO |
| Stacking Operation | | 2-High During Operation |
| Stacking Shipping | | 6-High For Shipping |
| Sound | dBa @1 Metre | 91 |
| Marking and Certification | | CE, DNV 2.7-1, CSC |

Additional Equipment

Built in external ball valve to set compressor load at control panel
Sullair compass controller operated externally
Spark arrestor
Extended exhaust pipe for stacking capabilities
Stainless Steel fuel tank
External Fuel supply capability
Heavy duty non return valve
Heavy duty ball valves on outlet
Interconnection capability for using multiple machines at once
Built in variable aftercooler designed to reduce air temperature from 104°C to max 62°C
Electronically controlled engine air intake flap, high water temp shut down,
High compressor air temperature shut down, low oil pressure shut down.
Full access to all components via louvered doors
Anti-Static fan and drive belts
Hydraulic Oil Cooler for fan drive oil cooling
Lifting Sling
Documentation Package
Drain points for fluids

Optional Equipment

Air Start System
Pressure reducing valve to allow for starting from another high pressure machine
Fuel Cooler