

1600cfm Containerised Zone II DNV 2.7-2 Air Compressor



Key Features

- Container built to DNV 2.7-1 / BS EN12079
- Electrical Operating System to meet Zone II and DNV 2.7-2 standards
- Unit Certified for Zone II Hazardous area operation
- Internal Fuel Tank with external fill point
- All unit specific operational activities carried out externally
- Internal exhaust gas cooling system – no flametraps required
- Internal exhaust spark arrestor system
- Gas Detection and shutdown system
- Fire detection and shutdown system
- Remote emergency shutdown facility
- Experienced service technician(s) for operational and maintenance assistance

Description

Centurion Power & Equipment 1600cfm Zone II Containerised Air Compressors are built and certified to DNV 2.7-2 offshore standards ensuring the highest safety in explosion mitigation.

The Air Compressors, which are enclosed in purpose built containers, comprise gas detection and fire suppression, ignition prevention with no temperature greater than 200°C, as well as external control panels providing enhanced safety for operating personnel.

A remote emergency shutdown facility is available ensuring instant safe shutdown should methane, propane and H₂S gas or a similar hazard be detected or encountered. The full compliance with the DNV 2.7-2 standard ensures the highest degree of safety in operation.

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When designing our 1600cfm Zone II Air Compressors we not only implemented extensive safety features to comply fully with the DNV2.7-2 global certification standard, but also maintained our leading industry small container footprint and single lift strategy. This ensures we minimise transportation costs, help our customers minimise risk and maximise space utilisation offshore.

The compressor package can be connected with the Centurion Power & Equipment Zone II Steam Generator and DNV2.7-2 Heat Suppression Systems for a complete DNV2.7-2 solution for well testing

Technical Specifications

Performance	
Compressed Air Capacity	1,600CFM
Working Pressure	150 PSIG 10 barg
Fuel Tank Capacity	1,035 litres
Full Load Running	9 hrs
Fuel Consumption	103 litres per hour
Pressure Vessel Build Specification	ASME VIII / BS EN 286-1
Air Outlet Connection	1 x 3" Hammer union, Fig 206 / 1 x ¾" Crowsfoot
Start System	Pneumatic
Air Start Connection	1 x ¾" Crowsfoot
Shutdown System	Electro / Pneumatic
Ambient Capability	+40°C
Performance	
Lifting Specification	DNV 2.7-1, BS EN12079 (2006)
Pressure Vessels	ASME VIII / BS EN 286-1
Pressure Vessels	Independent Third Party Inspection to PSSR 2000 UK Standards
Electrical	BS 7671:IEE Wiring regulations 17 th Edition. EN 60079. IEC 61892 (Series)
Lifting Specification	DNV 2.7-1, BS EN12079 (2006) / -20°C

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Lifting Specification, Weights & Dimensions

Lifting Specification	DNV 2.7-1, BS EN12079 / -20°C
Length	5,346 mm
Width	2,222 mm
Height	2,512 mm
Tare Weight	6,500 kg
Gross Weight	16,000 kg

Safety Features

- Manual External Emergency Fuel Cut Off
- Automatic Internal Fuel Cut Off
- External Emergency Stops
- Low Fuel Level Alarm
- Low Fuel Level Cut Off
- External Refuelling
- Exhaust Gas Temperature Shutdown
- Compressor Temperature Shutdowns
- Coolant Temperature Shutdown
- Low Oil Pressure Shutdown
- Vibration Shutdown
- Low Water Level Shutdown
- Over Pressure Shutdown
- Automatic Air Supply Isolation on Emergency Shutdown
- Container Inlet Air - Gas Monitoring / Shutdown
- Container Inlet / Outlet dampers - Automatic
- Closing on Shutdown Event
- Fire Detection System / Shutdown
- Fire Suppression System / Shutdown
- All Operational Controls on the External of the Container
- External Operating Status Warning Beacon
- Rig ESD Connection
- ISO Interlocking Stacking System
- Anti-Slip Flooring
- Container Base Fully Bunded

Note: The above referred specifications are our minimum standard and for guidance purposes only. For compressor specific information applicable to comply with region specific standards, please consult your local Centurion Power & Equipment representative.

For more information on Air Compressors, please contact your local Centurion Power & Equipment representative or email us at CPEUK@centuriongroup.co.uk.

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