

875 C ZII Containerised Zone II Air Compressor



Description

We designed our containerised Zone II Compressors for easier operation whilst minimising deck space requirements, maximising production and increasing safety offshore.

When offshore, the units can be safely double-stacked and secured with ISO twist locks creating economy of deck space yet maximum capacity.

Centurion Power & Equipment containerised Zone II product range complies with Zone II hazardous area flameproof specification, are fully ATEX approved and certified to DNV 2.7-1 lifting specification. They were uniquely designed to provide operating personnel with the ability to access and operate upper level units when stacked from within the unit through internal access hatches.

This fully internal design provides enhanced protection and safety for operating personnel whilst eliminating requirements for scaffolding which further reduces the encroachment on deck space.

Key Features

- Heavy duty, fully bunded DNV 2.7-1 offshore container
- Designed for stacking in use – ISO Blocks for locked-on safety
- Internal personnel access way between units when stacked
- Rugged, reliable mechanical marine engine and high ambient cooler package
- All-pneumatic starting and shutdown systems – with tell-tale fault indication
- Easy Clean system on exhaust gas cooler
- Compact footprint – transport three in a 40ft shipping container

Options

- Remote shutdown and refuelling from deck level
- Air treatment – aftercooling, filtration and drying
- Exhaust extensions for multiple installations
- Experienced offshore service technician(s) for operational and maintenance assistance



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Technical Specifications

Performance	
Flow	875 cfm
Working Pressure	150 PSIG 10 bar g
Fuel Tank	695 litres
Fuel Consumption	65 litres/hr
Full Load Running	10 hours
Ambient Operating Temperatures	-10°C / 45°C
Noise at Full Load	111 dba
Vibration at Full Load	0.87 mm/s
Start System	Pneumatic
Safety System	Pneumatic
ESD System	Electro / Pneumatic
Cooling System	Water / Oil
Engine Specification	
Engine Model	Caterpillar 3306 DITA
Power Output at Flywheel	320 hp / 230 Kw
Engine Idle Speed	1200 / 1500 rpm
Maximum Engine Speed	2100 rpm
Engine Oil Capacity	28 litres
Engine Oil Specification (Minimum)	15w40 Mineral
Engine Coolant Capacity	200 litres
Fuel Specification	Gas Oil (BS2869 Class A2&D)
Exhaust Temperature	< 194°C

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Lifting Specification, Weights & Dimensions

Lifting Spec	DNV 2.7-1
Length	3990 mm
Width	2250 mm
Height	2210 mm
Weight (kg dry)	8,200 kgs
Weight (kg op)	8,500 kgs
Max Gross Weight	10,000 kgs
Shipping Weight	8,500 kgs

Compressor Performance

Model	Ingersoll Rand 226 mm
Type	Oil Flooded Screw
Output	875 cfm
Maximum Operating Pressure	150 psi
Lubrication Oil Capacity	85 litres
Lubrication Oil Specification	HVI 46

Operating System

Start System Air Supply	115 psi – 150 psi
Start Air Supply	680 cfm (maximum)
Safety System Shutdowns	Pneumatic
Compressor Discharge	2 x 2" and 2 x 3/4" ball valves
Air Connection	1 x 3/4" Crowsfoot
ISO Interlockers	Positive lock
Stacked Access	Internal system

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Safety Features

External Emergency Stop	2 x Push Button
Internal Emergency Stop	1 x Push Button
Internal Lighting	110 volt with emergency battery backup
Exhaust Manifold	Water Cooled
Exhaust Turbocharger	Water Cooled
Exhaust Gas	Water Cooled
Shutdown System	Exhaust gas, ware, air / oil temperature, vibration, low water and low oil pressure monitoring
Rig ESD Connection	Electro / Pneumatic
Scramble Net	Stacked Escape System

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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