

## Datasheet

# 1000 C ZII Containerised Zone II Air Compressor

As a rental option the RentAir Offshore Zone II containerised compressors are ideal for operations such as well testing and oilfield applications in hazardous areas.

RentAir Offshore's containerised Zone II Compressors were designed 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.

Our 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



### Features:

- Rugged, reliable marine engine with high ambient cooler design
- Heavy duty, fully bunded, DNV2.7-1 offshore container
- Designed for Zone II hazardous area operation
  - BP200, OCMA Mec1, EEMUA 107
- Designed for offshore stacking
- Internal personnel access way between units when stacked
- Exhaust gas cooling, inlet shut down and flame trap
- All pneumatic starting, control and tell-tale fault indication
- Compact design
- Emergency shut down and refuelling from deck level

### Options:

- Aftercooler, filtration, drying
- Extra high ambient cooling package
- Dummy flame traps
- 'Yellow alert' shut down connection - 24V and 110V (others)
- Experienced offshore service technician(s) for operational and maintenance assistance

## Technical Specifications

### 1000 C ZII Containerised Zone II Air Compressor

#### Performance

Flow	1050 cfm / 29.73 m <sup>3</sup> /min
Working Pressure	125 PSIG / 8.61 barg 150 PSIG / 10 barg
Fuel Tank	590 litres
Fuel Consumption	62 litres/hr
Full Load Running	9.5 hours
Ambient Operating Temperatures	-10°C / 45°C
Noise at full load	111dba
Vibration at full load	0.87mm/s
Start system	Pneumatic
Safety system	Electro / Pneumatic

#### Lifting Specification, Weights & Dimensions

Lifting Spec	DNV 2.7-1
Length	3,990 mm
Width	2,250 mm
Height	2,210 mm
Weight (kg dry)	8,100kgs
Weight (kg op)	8,200kgs
Max Gross weight	10,000kgs
Shipping Weight	8,200 / 8,500kgs

#### Safety Features

External Emergency Stop	2 x Push Button
Internal Emergency Stop	1 x Push Button
Internal Lighting	110 volt with emergency battery back up
Exhaust Manifold	Water Cooled
Exhaust Turbocharger	Water Cooled
Rig ESD Connection	Electro / Pneumatic
Scramble Net	Stacked Escape System

#### Engine Specification

Engine model	Caterpillar 3306 DITA
Power Output at Flywheel	320hp / 230kw
Engine idle speed	1200/1500rpm
Maximum engine speed	2100rpm
Engine oil capacity	28 Litres
Engine oil specification (minimum)	15w40 Mineral
Engine coolant capacity	200litres
Fuel consumption at full load	65litres per hour
Fuel specification	Gas Oil (BS2869 Class A2&D)
Maximum thermal input	659kw
Rated thermal efficiency	0.35
Exhaust temperature	<196°C
Cooling pack outlet temperature	38°C @ ambient of 3°C

#### Compressor Performance

Model	Ingersoll Rand 226mm
Type	Oil Flooded Screw
Output	1050cfm
Maximum operating pressure	150psi
Lubrication oil capacity	85litres
Lubrication oil specification	Dexron II Automatic Transmission Fluid - Mineral

#### Operating Systems

Start system air supply	115psi - 150psi
Start air supply	680cfm (maximum)
Safety system shutdowns	Pneumatic
Compressor discharge	2 x 2" & 2 x 3/4" Ball Valves
Air Start Connection	1 x 3/4" Crowsfoot
ISO Interlockers	Positive Lock
Stacked Access	Internal System

For more information on Air Compressors please contact your local RentAir Offshore representative or email [offshore@rentairoffshore.com](mailto:offshore@rentairoffshore.com)

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 RentAir Offshore representative.

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