Intelligent Air Technology

C850-250(S) - C255-24
Portable Air Compressors
Key Features

Efficient CompAir two stage rotary screw compressor.

Durable Caterpillar 6 cylinder turbo assisted engines with power reserves for high altitude working.

Operation in ambient temperatures from -10°C. to +49°C.

Auto shut down systems protect against low engine oil pressure, high engine or compressor temperature, and low coolant level plus low fuel level shutdown on C255-24.

Unique 180° turntable steering for excellent manoeuvrability on confined sites.

All round service access including doors to assist cleaning of both sides of coolers.

Rust resistant zinc coated steel canopy panels with electrostatically applied durable powder paint finish.

Individually replaceable panels minimise the cost of site damage.
C850-250(S) - C255-24
Two Stage Portable Air Compressors
17-24 bar

The CompAir 2 stage oil flooded rotary screw compressor is harnessed to Caterpillar diesel engines to produce 17, 20 and 24 bar high pressure site compressors, which provide energy efficient air power for down the hole hammer drilling in surface mining and ground engineering or for supporting water well drilling, pipeline testing and sub sea blast cleaning operations.

Proven Caterpillar 3306 DITA 6 cylinder turbo charged diesel engines meeting EC Level 1 emission standards are used in the C850-250(S), providing 24.1m³/min. (850 cfm) at 17.2 bar g, the 750-300(S) (21.2m³/min. at 20.7 bar g) and the C650-350(S) (18.4m³/min. at 24 bar g).

The more powerful CAT3406 DITA engine developing 298 Kw. is used for the top of the range C255-24 delivering 25.5m³/min. at 24 bar g in a slightly larger canopy incorporating additional advantages in operation and maintenance.

CNC machining of precision components plus state of the art sheet metal and electrostatic painting equipment, supported by the rigorous production systems required for ISO 9001 certification provide the highest standard of quality, corrosion resistance and reliability.

The CompAir world wide sales and service network is well experienced in the needs and priorities of site operations in remote areas and trained to deal with them promptly and efficiently.
Features

Illuminated control panel with lockable door and shatter proof window contains all necessary instrumentation, including gauges for air delivery pressure and temperature, tachometer, and hour meter.

The C255-24 panel also has ammeter, engine oil pressure gauge, coolant temperature gauge, and a switch gauge for fuel level, activating an external low fuel warning beacon or buzzer when only two hours full load operation remains. A mechanical fuel gauge located on top of fuel tank is provided on other models.

A warm up wheel valve enables engine to be run on a low compressor load on start up for additional durability. (C255-24 has automatic warm up and shut down operating cycles, with override by use of an emergency stop button).

2 stage air inlet filters for engine and compressor with safety elements to provide added protection in case of maintenance neglect or high dust levels.

Air filter condition indicators on control panel (on air inlet ducts in the C255-24) warn when filter maintenance is required, and thus also protect against premature replacement.

Large capacity 488 litre fuel tanks (655 litres on C255-24), sufficient for a minimum of 8 1/2 hours full load operation.

Inspection plates enable tank cleaning.

Heavy gauge welded steel chassis construction for towing on difficult ground without distortion.

C255-24 has a manual pump for cooler filling, so that all routine maintenance is from ground level.
### Operational Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>C850-250(S)</th>
<th>C750-300(S)</th>
<th>C650-350(S)</th>
<th>C255-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free Air Delivery at Rated Pressure</td>
<td>m³/min</td>
<td>24.1</td>
<td>21.2</td>
<td>18.4</td>
</tr>
<tr>
<td>Rated Operating Pressure</td>
<td>bar g</td>
<td>17.2</td>
<td>20.7</td>
<td>24</td>
</tr>
<tr>
<td>Oil Capacity Compressor System</td>
<td>litres</td>
<td>118</td>
<td>185</td>
<td></td>
</tr>
<tr>
<td>Engine</td>
<td>3306 DITA</td>
<td>3306 DITA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>97-68-EC Emission Compliant</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full Load Speed</td>
<td>rpm</td>
<td>1900</td>
<td>1900</td>
<td></td>
</tr>
<tr>
<td>Output at Rated Speed</td>
<td>kW</td>
<td>235</td>
<td>298</td>
<td></td>
</tr>
<tr>
<td>Fuel Tank Capacity</td>
<td>Litres</td>
<td>488</td>
<td>655</td>
<td></td>
</tr>
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</table>

### Working Weight (wt)

<table>
<thead>
<tr>
<th></th>
<th>kg</th>
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<tbody>
<tr>
<td>Overall Dimensions</td>
<td></td>
</tr>
<tr>
<td>Overall Length (drawbar raised)</td>
<td>mm</td>
</tr>
<tr>
<td>Overall Length (towing)</td>
<td>mm</td>
</tr>
<tr>
<td>Overall Width</td>
<td>mm</td>
</tr>
<tr>
<td>Height</td>
<td>mm</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>mm</td>
</tr>
<tr>
<td>Tyre Size</td>
<td></td>
</tr>
<tr>
<td>Front</td>
<td>7.00 x 12 12 ply</td>
</tr>
<tr>
<td>Rear</td>
<td>7.50 x 16 8 ply</td>
</tr>
</tbody>
</table>

### Compressed Air Outlets

<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>Noise Levels (“S” models)</td>
<td></td>
</tr>
<tr>
<td>Sound Power**</td>
<td>dB(A) Lw</td>
</tr>
<tr>
<td>Sound Pressure***</td>
<td>dB(A) Lp</td>
</tr>
</tbody>
</table>

* Except for models with less sound attenuation (for length deduct 145mm, for weight deduct 220Kg.)

** Sound power to 84/533/EC.  *** Sound Pressure to PNEUROP PM8NT2.2 at 7m.

### Options

**Built-in aftercooler with automatic condensate separation**

**Air treatment packages**

Air quality is increasingly specified in many applications, and thus microfilter air treatment packages are available with the above after cooler to provide air to ISO 8573.1 specifications, including ZTV SIB 90 with oil removal down to >0.01 ppm.

**Pressure Reduction Valve**

To provide ancillary 7 bar air for pneumatic tools such as rock drills in secondary breaking, or air for cleaning down surfaces of the engine radiator and compressor oil cooler.

**Heavy duty air Cleaners**

With automatic dust ejection for very dusty drilling conditions.

**Fuel Lift Pump**

For refilling diesel fuel tank from external source.

**Base Mount**

Allows permanent installation on site or on the loading deck of a commercial vehicle.

**Handling frames for base mount models**

Handling frames to customer specification can be provided. Please refer to CompAir sales manager.

**Skid Mount**

For dragging compressor over short distances on sand, snow covered surfaces etc.

**Air braking**

On highway air braking including road lights to EC standards. Details on request.

**Overrun brakes**

To assist in off highway towing.

**Engine overspeed shutdown valve**

An overspeed valve in the engine port ensures immediate shutdown in the event of ingestion of inflammable gas to prevent damage from overspeeding engine.

**Exhaust spark arrestor**

To reduce fire risks during operation in hazardous areas such as petro-chemical plants and forests.

**Customer's own paint colour** (batches of 10)

For theft deterrence and hire company on site promotion.

Models other than C255-24 are available with less sound attenuation (except for models with less sound attenuation (for length deduct 145mm, for weight deduct 220Kg.).

A compact Rig Mount configuration for builders of water well drilling rigs. The 2 stage air end can be provided with Caterpillar engine and side mounted cooler matrix to produce the same air outputs in a base mounted form measuring only 2.25m x 5.91m x 2.34m high. This is achieved by a cooler fan driven hydraulically from an engine Power Take Off rather than an in-line cooler arrangement with fan driven by engine shaft.
Intelligent Air Technology

Compressed air solutions for every application

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.

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