

factair

BA800D 4-OUTLET BREATHING AIR COMPRESSOR



The BA800D is FACTAIR's latest generation of fully mobile, self contained breathing-air compressor. These units have been specially designed to provide safe breathing-air supply for operatives working in hazardous atmospheres such as occur in the nuclear, petrochemical, pharmaceutical and a range of other industries.

Utilising a sophisticated, fuel efficient, variable speed engine drive system that runs at the optimum speed to match the breathing-air demand the BA800D will produce up to 800 l/min at 8 bar and incorporates breathing-air filtration with a pressure swing dryer CO and CO₂ suppression system. The units incorporate FACTAIR's 'fail-safe' system providing automatic back up from high-pressure cylinders, ensuring a safe exit from the workplace in the event of failure of the primary supply.

The breathing-air is delivered through 4 fixed pressure, flow protected outlets, for positive pressure demand masks, with a switchable option to allow a regulated supply for constant flow devices. In addition a larger diameter single outlet is fitted for breathing air to be delivered to a remote distribution system.

The unit also incorporates volt free contacts to interface with external alarm/shut down devices and a sophisticated minimum loss control system for the HP reserve.

The BA800D has been designed to work in wide range of demanding environments with a sand trap louvre ventilation and a specially uprated cooling system allowing the units to operate in both hot and dusty conditions. In addition, as standard, the units are fitted with Chalwyn valve, spark arrestor and a high-level air intake to ensure that air is drawn in from an area clear of exhaust gases.

Air quality exceeds the criteria laid down in BS EN12021 and units are built in our Quality Assured workshops under procedures approved to ISO 9001. Both units have European Community Whole of Vehicle Type Approval 2007/46/EC as well as complying with EC noise regulations of 97LWA.



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Specification

ENGINE	Lombardini LDW 1003, 3-cylinder, water-cooled diesel engine c/w spark arrestor and Chalmers overspeed valve.
COMPRESSOR	Mattei M80 rotary vane (13bar maximum pressure)
OPERATING SPEED	2,000rpm minimum to 3,000rpm maximum (variable speed control based on demand)
AFTERCOOLER	Outlet temperature within 5°C of ambient
FILTRATION	Purifies air to breathing quality conforming to EN 12021. Pressure swing dryer reducing the dewpoint to -40°C and provides CO and CO ₂ suppression
BA OUTPUT CAPACITY	540 to 800LPM. @ 8 Bar
TOTAL CYL. CAPACITY	4 off 9 litre 200bar HP cylinders. 7,200 litres storage capacity. or 4 off 9 litre 300 bar HP cylinders, 10,800 litres storage capacity
OUTLETS	4 off Draeger/Scott compatible couplings, switchable between:- <ul style="list-style-type: none">• Fixed pressure flow protected for demand masks• Regulated pressure for constant flow devices. 1 off ½" CEJN 442 high flow non-regulated coupling.
CHASSIS	Approved to 2007/46/EC road towing under 750kg.
DIMENSIONS	Length <3500mm, Width 1440mm, Height 1550mm
ENCLOSURE	Gull wing type doors for easy access, sand trap ventilation louvres to reduce enclosure contamination.
TOWING HITCH	50 mm ball
BATTERY	12 volt DC – Negative earth
STANDARD FEATURES	Lifting eye · Spark arrestor, High-level air intake and hours run meter, Fully automatic 'fail-safe' reserve from high-pressure cylinders with start up protection. Electronic minimum air loss HP cylinder control system. Engine shut-down activated by either high temperature compressor oil or low engine oil pressure. Fuel tank 8 hours run time complete with low fuel alarm/start prevention.
GAUGES SHOW	HP cylinder pressure · System pressure · Regulated pressure
LED INDICATORS	Glow plug, low fuel warning, cylinder status
AUDIBLE ALARMS	Primary air supply failure. Air reserve inadequate and low fuel level
VISUAL ALARMS	Primary air supply failure. Air reserve inadequate and low fuel level
ALARM INTERFACE	Volt free contacts to accept alarm input from external alarm, shut down devices*
ALARM DATA	Full alarm event log downloadable via USB port
ENVIRONMENTAL	Oil tight chassis. Condensate vaporised in engine exhaust.
NOISE LEVEL	<97 LWA. (Better than 77dBA @ 4 metres)
WASTES	Discharge from oil removal filter autodrain gathered into a container for proper disposal
QUALITY	BA800D manufactured in accordance with our Quality Assurance Procedures approved to ISO9001.

* - Unit will need to be configured to suit specified devices.