

factair

BAC1700D

Mobile Breathing-Air System



FACTAIR manufacture a range of mobile self contained breathing-air systems designed to deliver breathing quality compressed air to operatives wearing air fed respiratory equipment in hazardous environments.

The BAC1700D has a water cooled diesel engine driven rotary screw compressor with aftercooler, breathing-air filtration, including pressure swing dryer with carbon monoxide and carbon dioxide suppression. The unit produces up to 1,700 l/min at 8 bar and has a fully-automatic fail-safe back-up system from two 50 litre high pressure cylinders.



In the event of the primary air, or reserve pressure in the cylinders falling below a permissible level, audible and visible alarms sound/flash to notifying breathing-air apparatus wearers to immediately evacuate to a safe area.

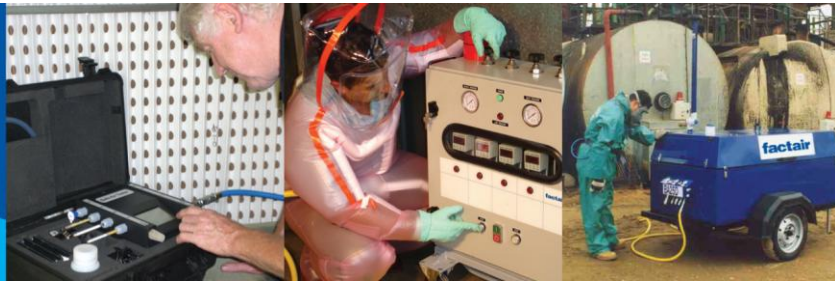
The BAC1700D is enclosed within a twin axle box van trailer which allows easy access for servicing from the front of the unit. An external fuel filling point is mounted on the side of the trailer and the breathing-air connections and controls are accessed from the rear roller shutter door. The unit is also sound attenuated to ensure that the noise level is within the European regulations of <98LWA. A high-level air intake is provided which protrudes from the roof of the trailer ensuring that the breathing air is drawn from an area remote from the engine exhaust.

The BAC1700D can also include a range of options including: datalogging, breathing-air hoses reels intake and outlet gas monitoring linked to the failsafe shutdown system.



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|--------------------------------|--|
| PORTABLE COMPRESSOR SET ENGINE | - HPC M31 portable compressor
- Kubota · water-cooled · 3-cylinder diesel
(low oil pressure high oil temperature shutdown protected) |
| COMPRESSOR | - Kaeser - oil injected · rotary screw |
| AFTERCOOLER | - Outlet temperature within 5°C of ambient |
| FILTRATION | - Purifies air to breathing quality conforming to BS EN 12021 |
| CHASSIS | - To full EEC regulations including brakes |
| TOWING HITCH | - 50 mm ball or ring |
| BATTERY | - 12 volt DC – Negative earth. 60Ah
Earth bonding point on drawbar |
| NOISE LEVEL | - <98 LWA. (Better than 78dBA @ 4 metres) |
| STANDARD FEATURES | - Chalwyn engine overspeed valve · Spark arrestor · Jockey wheel · High-level air intake · Hours run meter. Fully automatic 'fail-safe' reserve from high-pressure cylinders with start up protection. Engine shut-down activated by either high engine or compressor temperature, battery charge failure or low engine oil pressure |
| GAUGES SHOW | - HP cylinder pressure · Differential pressure · Compressor Pressure, System pressure · Regulated pressure x 2 |
| LAMPS SHOW | - Alarm Type – Engine / Compressor Fault, HP alarm, LP alarm |
| AUDIBLE ALARMS | - Primary air supply failure · Reserve pressure low |
| VISUAL INDICATOR | - Shows changeover to HP reserves |
| OUTLETS | - 8 off CEJN couplings (or alternatives) and 2 off ¾" Dynaquip couplings
Option for up to 4 no. 30 metre self retracting hoses |
| WASTES | - Central tray for all oil/diesel drainage and spillage. All discharges from filter autodrain are gathered into a container for proper disposal |
| QUALITY | - The BAC1700D is manufactured in accordance with our Quality Assurance Procedures approved to ISO9001/EN29001 |

3 CYLINDER WATER-COOLED DIESEL	FUEL CAPACITY		FREE AIR DELD. At 7 BAR 100psi		WORKING PRESSURE		HP CYLINDER CAPACITY Litres	DIMENSIONS (approx)			
	Litres	hrs	l/min	cfm	Bar	psi		LENGTH mm	WIDTH mm	HEIGHT mm	WEIGHT kg
20.6 kW at 2400RPM	approx 40	8	1700	60	8	115	15000 each x 2	5350	2300	2600	1800