

BA20EXHC Zone 1 Hot-Climates Mobile Breathing-Air Compressor



The Factair BA20EXHC ZONE 1 is an electrically powered, breathing-air compressors designed to operate in a hazardous area (designated Zone 1 Equipment Group II, category 2 G (IIB T4). Additionally the BA20EXHC is designed to operate in hot climates up to 50°C and incorporates a thermostatically controlled oil cooling system to ensure that the correct operating temperature is maintained in cooler running conditions.

The BA20EXHC also has a fully integrated automatic fail-safe emergency air reserve and alarm system. In the event a drop in the primary air pressure an audible alarm will be activated and the air will continue be supplied from two 9-litre 200 bar cylinders (optional 300 bar also available). The control panel has a status indicator which in the event of a failure of the primary air will automatically change from green to red. If the air pressure in the HP cylinders drops below 140 bar this will also activate the alarm and status indicator on the control panel.

The breathing air compressor uses a Gardner Denver Hydrovane rotary vane compressor powered by a 5.5kW, 400/460V, 50/60Hz three phase explosion proof electric motor c/w a DOL starter. The compressed air generated is passed through a fan assisted aftercooler before proceeding through a multi-stage filtration system which removes particulates, reduces oil contamination to <0.003 parts per million and also removes hydrocarbon vapours. The air is then passed through a membrane dryer to ensure a 5°C suppression of dewpoint in ambient temperatures >0°C with air quality exceeding the criteria laid down in BS EN12021. Breathing Air is then supplied to 2 flow protected Draeger/Scott compatible outlets.





SPECIFICATION

ATEX CLASSIFICATION	Zone 1, Equipment Group II, category 2 G (IIB T4)
MOTOR	Dual voltage input 400V/3PH/50Hz and 460V/3PH/60Hz. ATEX classification II 2 G IIB T4
COMPRESSOR	Hydrovane V04 rotary vane 10 Bar maximum pressure
INTAKE FILTER	Heavy duty complete with adaptor for connecting ducting to provide air from safe area.
AFTERCOOLER	Outlet temperature within 5°C of ambient
FILTRATION	Three stage filtration, comprising pre-filter, coalescing and activated carbon filters.
MEMBRANE DRYER	5°C suppression of dewpoint in ambient temperatures >0°C Breathing air quality conforming to EN 12021. Note: CO and CO ₂ suppression is not fitted as standard on this model.
BA OUTPUT CAPACITY	BA20EXHC– 400 LPM @ 8 Bar
TOTAL CYL. CAPACITY	On the BA20EXHC the emergency reserve air supply is provided in high pressure cylinders that must be refilled elsewhere. The unit cannot be operated without these cylinders in place, at a pressure above the minimum safe condition and they must be turned on while the compressor is in use. Cylinder alternatives are:- 2 off 9 litre 200bar HP cylinders, 3,600 litres storage capacity. or 2 off 9 litre 300 bar HP cylinders, 5,400 litres storage capacity
CHASSIS	Heavy duty includes, forklift channels, 4 lifting eyes and conductive wheels.
DIMENSIONS	Length 1360mm, Width 735mm, Height 940mm Weight 310Kg
STANDARD FEATURES	Over temperature protection, automatic 'fail-safe' reserve from high pressure cylinders with start up warning
CONTROL PANEL	Gauges – Compressor Pressure, Outlet Pressure, HP Cylinder Pressure Status Indicators – Red/Green Visual Changeover
OUTLETS	2 off Draeger/Scott compatible couplings for positive pressure devices. Alternative constant flow compatible outlets available.
AUDIBLE ALARMS	Primary air supply failure. - Air reserve inadequate
NOISE LEVEL	<71 LWA.
WASTES	Discharge from condensate autodrains gathered into a container for proper disposal
QUALITY	BA20EXHC is manufactured in accordance with our Quality Assurance Procedures approved to ISO9001.