



The Factair BAHP300EX is an electrically powered, HP breathing-air charging compressor designed to operate in a ATEX zone 1 hazardous area (ATEX marking:  $\text{Ex}$  II 2 G, Ex d IIB T3).

Temperature monitoring is provided on the outlet of all three stages which invokes an automatic compressor shut down, should the temperature of either 1st, 2nd or 3rd stage outlets exceed 160°C. This important safety feature ensures that the maximum surface temperature of 200°C permitted under the marked T3 rating, is not exceeded.



The compressed air generated is passed through a multi-stage filtration system which removes particulates, reduces oil contamination to <0.003 parts per million, removes hydrocarbon vapours and suppression of CO & CO<sub>2</sub> in accordance to the requirements of BS EN 12021. The filtration system has a capacity of 900m<sup>3</sup> (33hrs @ 20°C). HP breathing air is then supplied via up to 4 off charging hoses fitted with a HP cylinder connector. A gas tight air intake filter system is provided for connecting to a remotely ducted intake (located back to a safe area).

Incorporating a heavy duty slow running air-cooled 3-stage reciprocating compressor producing 18m<sup>3</sup>/hr (300 l/min) and a maximum pressure capability of 350bar. The compressor being vee belt driven by a 7.5kW ATEX zone 1, 2G,T4 motor wound for a 400V/3ph/50Hz supply, which is BS EN 60034 compliant. Both the motor starter and controls are located within a marine grade aluminium ATEX control panel certified to  $\text{Ex}$  II 2G D Ex d IIB T4 IP66. The control panel is c/w



mains isolator, star/delta motor starter, automatic condensate drainage system, automatic stop on final pressure, display providing hours run and fault information and start/stop buttons.

All of the above is mounted on a 316L stainless steel base frame and within a fully galvanised fabricated steel frame. Fixed skid or mobile versions with forklift channels are available. The mobile version is additionally provided with 4 off lifting eyes c/w standard lifting test certification and mounted on four heavy duty 200mm diameter anti-static polyurethane castors. Handles at each end for ease of manoeuvrability.



#### SPECIFICATION

ATEX MARKING	Zone 1, Equipment Group II, category 2 G (IIB T3).		
MOTOR	7.5kW (15A F.L.C.) ATEX zone 1, 2G,T4 motor, wound for a 400V/3ph/50Hz 30A fused supply.		
COMPRESSOR	L&W LW 300 E slow running air-cooled 3-stage reciprocating compressor producing 18m <sup>3</sup> /hr (300 l/min) and a maximum pressure capability of 350bar.		
INTAKE FILTER	Heavy duty complete with adaptor for connecting ducting to provide air from safe area.		
FILTRATION	Multi-stage filtration system which removes particulates, reduces oil contamination to <0.003 parts per million, removes hydrocarbon vapours and suppression of CO & CO <sub>2</sub> in accordance to the requirements of BS EN 12021. The filtration system has a capacity of 900m <sup>3</sup> (33hrs @ 20°C).		
BA OUTPUT CAPACITY	300 l/min, 350 bar max.		
FRAME	Fabricated galvanised steel frame includes forklift channels.		
DIMENSIONS	Length: 1850mm	Width: 750mm	Height: 1260mm      Weight: 650kg
STANDARD FEATURES	Temperature monitoring on the outlet of all three stages which invokes an automatic compressor shut down, should the temperature of either 1st, 2nd or 3rd stage outlets exceed 160°C.		
CONTROL PANEL	Start/stop buttons c/w automatic stop on final pressure. Display providing hours run and fault information.		
OUTLETS	Up to 4 off charging hoses fitted with filling valve.		
NOISE LEVEL	<97 LWA		
WASTES	Automatic cyclic discharge from condensate autodrain gathered into a container for proper disposal.		
QUALITY	BAHP300EX is manufactured in accordance with our Quality Assurance Procedures approved to ISO 9001:2008.		