



DIVEX

Manufacturers of Quality Diving Equipment



DIVEX KAP 9.2



Charging rate: 260 Litres per minute (9.2 cfm)



240 or 330 Bar outlet pressure



P41 filtration



Petrol, diesel or electric drive

The **DIVEX KAP 9.2** is a heavy duty breathing air compressor and is one of the latest developments from Bauer, whose products over the years have become the standard for breathing air applications in the military, commercial and sport diving operations worldwide.

The compressor block is a four stage, 3 cylinder design with cylinders arranged in a "W" format, with the combined 1st & 2nd stage vertical stepped cylinder in the centre. When looking at the compressor from the filter side the 3rd stage is on the right with the 4th stage on the left.

These compressor blocks are particularly suitable for continuous operation because of their rugged design and the corrosion resistant intermediate filter and cooler assemblies. Smooth running is a particular feature of this Bauer design with all moving parts being equally balanced, resulting in an operating life of at least 30,000 hours.

The use of oversized interstage and final coolers, together with a large cooling fan, ensures that the compressed air is cooled to within a just a few degrees of the ambient temperature.

The discharge air temperature will be approximately 10°C (18°F) above that of the inlet air. Because of the low thermal load on the valves the operating reliability is substantially increased. Standard operating temperature range of the compressor is + 5°C to + 45°C (43°F to 113°F).

The **Bauer P41 Filter System** is used on this compressor to purify and dry the delivered air to standards which comply with or exceed DIN 12021 for breathing air. It comprises an oil and water separator with micro-filter insert, non-return valve and final pressure safety valve, together with the filter tower fitted with purifier cartridge, pressure maintaining valve, non return valve and vent valve.

The standard cartridge used in electrically driven compressors features the Molecular sieve/Activated Charcoal/Molecular sieve format. Compressors driven by petrol or diesel engines have a cartridge with an additional layer of Hopcalite for removal of any carbon monoxide which may be generated by the engine. Petrol and diesel engined compressors are also provided with an extended 3 meter air intake hose to ensure air for compression is taken from safe distance away from the engine exhaust.

The compressors are driven by vee belt with adjustable tensioner pulley and suitably guarded, and standard with Direct on Line push-button starters ready to be wired into suitable isolator box. (Star Delta starters available if required).

The standard filling panel is an integral part of the compressor framework and is fitted with three charging hose assemblies, each 1 metre long (longer lengths available to order) fitted with International A-clamp cylinder connectors on 240 bar units and 5/8" BSP for 330 bar service. Both types have integral vent valves fitted.

DIVEX KAP 9.2P Honda Petrol

ORDER CODE BAK5.5P01

DIVEX KAP 9.2D Lister Diesel

ORDER CODE BAK5.5D01

DIVEX KAP 9.2E 3 Phase Electric

ORDER CODE BAK5.5E01

Specification

Dimensions:	Length - 130 cm Width - 66 cm Height - 86 cm	Length - 130 cm Width - 66 cm Height - 86 cm	Length - 130 cm Width - 66 cm Height - 86 cm
Weight:	216kg - Petrol	230kg - 3 Phase Electric	274kg - Diesel
Charging rate:	260 l/min (9.2 cfm)		
Outlet pressure:	240 or 330 bar (specify)		
Drive motors:	5.5 kW TEFV motor DOL Starter 8.0 kW Honda petrol engine 11.6 kW Lister LPA2 diesel engine (electric start)		

Technical Data

Compressor Block

With micronic type inlet filter, intercoolers, aftercooler, interstage separator, interpressure safety valves.

Petrol and Diesel driven models have 3 metre long air intake hoses to ensure air for compression is taken from a safe distance from engine exhausts.

Compressors driven by electric motors will be delivered with direct on line starter for wiring into suitable power supply.

Filtration

The **P41 Filter System** is complete with long-life cartridge, pressure maintaining valve to ensure that filter system always operates at optimum pressure for maximum efficiency, and final safety valve.

Filling Assembly

Three filling hoses, 1 metre long, fitted with either DIN/A-clamp cylinder connectors on 240 bar units or 5/8" BSP for 330 bar service. Both types have automatic vent valves

Options

- (a) Automatic timed condensate drainage system
- (b) High pressure cut-out switch (electric models)
- (c) Filter control system SECURUS
- (d) Auto control for use with storage systems
- (e) Wall mounted charging panel (electric models)
- (f) Hours - run recorder
- (g) Star Delta Starter (electric models)
- (h) HP storage bank system

Consumables and Spares

BAO62565-410	P41 Filter Cartridge (electric models only)
BAO67224	P41 Filter Cartridge with Hopcalite for Petrol & Diesel engines
BAN00070	Intake Filter Cartridge
DD8A1920	V-Belt (Electric)
TBA	V-Belt (Petrol)
DD8A2320	V-Belt (Diesel)
BAN22138-1	Shell Corena P150 compressor oil (1 litre)
BAN22138-5	Shell Corena P150 compressor oil (5 litres)



March 2002

Enterprise Drive, Westhill Industrial Estate, Westhill, Aberdeen, AB32 6TQ, UK
Tel: + 44 (0) 1224 740145, Fax: + 44 (0) 01224 740172
E-MAIL: info@divex.co.uk, Web Site: www.divex.co.uk

Section 4-5b