

CAPITANO II



DATA SHEET

CAPITANO IIE

Free standing electrical driven compact and robust breathing air compressor, designed, engineered and built to meet the exacting demands of industrial applications.

TECHNICAL DATA BASED ON ATMOSPHERIC CONDITIONS OF 1.013 BAR G @ 20°C

Medium	Air	
Ambient temperature		-5 to + 45°C
Max permissible allowed pressure	330 Bar g	
Capacity - Free air delivery	140 l/min + 5%	
Power	3 Kw	
Speed	1300 rpm	
Number of compression stages	3	
Number of cylinders	3	
Drive	Vee belt	
Cooling airflow - Minimum requirement	900 M ³ /Hr (approximate)	
Power supply voltage	415v/3ph/50Hz	
	Noise level at 1 metre dB(A) sound pressure	82 Free field conditions

STANDARD SCOPE OF DELIVERY

Driving gear dynamically balanced to first order mass balance
Interstage oil and moisture separator with micro filter after last stage
Safety valves on all stages
Air intake (micronic) filter
Inter and aftercooler of ample size
Low pressure oil pump
Cooling fan integral with flywheel

CONFIGURATION AND STYLE OF UNIT

Compressor mounted on base with lifting handles with shock absorbers for free-standing installation. Equipment suitable for use in covered and well ventilated indoor applications. Painted in blue to a standard suitable for industrial environments.

DRIVE MOTOR

Electrical	
Type	Totally enclosed fan ventilated
Rating	3 Kw
Power supply	415v/3ph/50Hz
Area Classification	Only suitable for use in non hazardous areas.

ELECTRICAL STARTING AND CONTROL PANEL

Manual Control

Manual start/stop control by means of a push button, D.O.L. starter mounted within the compressor frame.

Offloading of the compressor being achieved manually by opening the interstage and final stage condensate drain valves.

Automatic Control (Optional)

Automatic shutdown when final pressure is reached, consisting of switch box with contactor , transformer, pressure switch , timer and on/off switch. This system is integrated into the automatic condensate drain system and cannot be ordered separately

AUTOMATIC CONDENSATE DRAIN SYSTEM (Optional)

The automatic condensate drain automatically drains all separators between the individual stages and also the final separator whilst the compressor is running.

Normal operation set to open every 15 minutes for a 6 second period. The timer can be recalibrated to meet the operating conditions.

At every shutdown of the compressor unit, the separators are automatically drained and the system is relieved of pressure so that when the compressor is re-started it can operate easily without load.

The automatic condensate drain is recommended in all cases where the compressor unit will be operated automatically, in this way you can be sure of a long filter life and high air purity.

The condensate accumulated in the separators flows through the automatic condensate drain to an air/condensate separator. The condensate which is drained is collected in a removable condensate collecting tank of approx 5 litres capacity

BREATHING AIR FILTRATION SYSTEM

BAUER P21 breathing air processing and filter system supplying air to international standards, these include:-

- DIN 3188/PNEUROP 6611 (Germany)
- BS 4275/BS4001, Parts 1 & 2 (UK)
- Plongees Profandes Offshore (France)
- CGA Grade D & E/ Navy Standard
- Federal Spec. Grade A & B (USA)
- CSA (Canada)

System comprising:

- Final condensate separator for the removal of oil/water condensate
- P21 filter housing with long life filter cartridge processing in 3 stages:

- Drying by adsorption of the water vapour particles
- Neutralisation by adsorption of oil vapour and odours
- Micro-filtering by binding suspended particles

- Final safety valve fitted to separator (TUV)
- Back pressure/non return valve
- System pressure gauges/ vent assembly

Processable air capacity at 200 bar and 20°C 160 Nm³

CYLINDER FILLING ARRANGEMENT

Standard filling allows one cylinder to be filled at a time, comprising:

- 1 x Charge/vent valve
- 1 x 1 metre long hose
- 1 x PN200 or PN300 cylinder connection
- 1 x PN200 to Yoke adaptor (225 bar models only)
- 1 x 63mm dia. cylinder filling pressure gauge fitted to charge/vent valve

Dual Pressure System (Option)

Dual pressure filling allows for simultaneously filling of one, 200 bar g cylinder or one, 300 bar g cylinder comprising:

- 1 x 200 bar charge/vent valve
- 1 x switch over valve
- 1 x 300 bar charge valve
- 2 x 1 metre long hoses
- 1 x PN200 cylinder connection
- 1 x PN300 cylinder connection
- 1 x 225 bar safety valve

DOCUMENTATION

One copy of the operating manual and parts list

11.0 MANUFACTURING TESTING STANDARDS

Manufacturing	In accordance with the German regulation and standards
Testing	Bauer standard in accordance with DIN 50049 3.1B

12.0 QUALITY ASSURANCE

BS EN ISO 9001:1994

13.0 DIMENSIONS AND WEIGHTS (approx)

Length	1000mm
Width	470mm
Height	550mm
Weight	89Kg (inc. oil)