

ATLAS COPCO MARINE AIR SYSTEMS

Atlas Copco

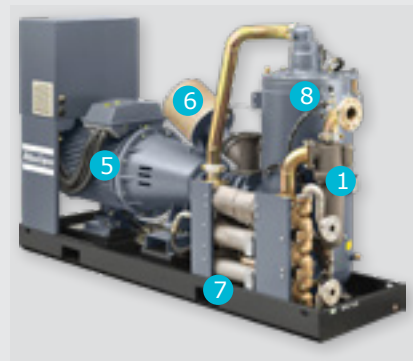
Working Air Compressors
MAS 110-160

Authorised Distributor

i Small footprint, superior efficiency for bulk handling



- 1 Cyclonic moisture separator, with automatic and manual drain, mounted behind the aftercooler.
- 2 Anti-vibration pads under motor and gearbox.
- 3 Control cubicle with integrated Elektronik®n Graphic regulation ensures reliable and safe operation.
- 4 Marine motor approved by notified body for non-essential or essential on-board duty.



- 5 Motor and compressor are flanged to each other for permanent alignment during transport, installation and operation.
- 6 Air inlet filter with easily replaceable, highly efficient dry paper cartridge ensures a long compressor lifetime.
- 7 One oil-retaining frame with reduced dimensions.
- 8 Common combined air receiver/oil separator vessel installed on each compressor.

FEATURES AND BENEFITS

Optimized efficiency

- Several starter types: Star/Delta, DOL, and Soft Starter.
- Upon request: VSD (Variable Speed Drive), diesel and hydraulically driven.

Flexible installation and operation

- Flanged air and water connection, on same side of unit for easy installation.
- Marine motor with reduced starting current avoids stress on generator system.
- Elektronik® Graphic regulation ensures reliable and safe operation.
- Control panel with hour counter, amp meter, high-temperature outlet, motor overload, low cooling water, motor heating on (lamp), auto operation sign, analog signals to customer and general alarm.

Saving space

- Small footprint (L x W x H): 3000 x 799 x 1850 mm.
- Frame-mounted, fully interconnected, no extra pipework.
- Including oil and aftercooler, water separator, air inlet filter.
- Without canopy to minimize equipment volume.

Ease of operation

- Voltage-free contacts to customer installation (open-closed): automatic operation, general warning, general shut down, load-unload, motor running and local-remote.
- Analog signals to customer installation (4-20 mA): outlet pressure and motor current.



TECHNICAL SPECIFICATIONS

Compressor type	Maximum working pressure		Capacity FAD*			Installed motor power***		Cooling water flow		Weight	
	Standard		Standard			kW	hp	Standard		Standard	
	bar(e)	psig	l/s	m ³ /h	cfm			m ³ /h	gpm	kg	lbs
MAS 110 – 6 bar	6	87	350	1260	742	125	170	10.1	44.5	1938	4264
MAS 110 – 8.6 bar	8.6	125	320	1152	678			10.1	44.5		
MAS 110 – 10.4 bar	10.4	151	288	1037	611			10.1	44.5		
MAS 110 – 13.8 bar	13.8	200	241	868	511			10.1	44.5		
MAS 132 – 6 bar	6	87	407	1465	863	150	204	12.2	53.7	2073	4561
MAS 132 – 8.6 bar	8.6	125	376	1354	797			12.2	53.7		
MAS 132 – 10.4 bar	10.4	151	345	1242	731			12.2	53.7		
MAS 132 – 13.8 bar	13.8	200	292	1051	619			12.2	53.7		
MAS 160 – 6 bar	6	87	484	1742	1026	185	250	14.0	61.6	2103	4627
MAS 160 – 8.6 bar	8.6	125	428	1541	907			14.0	61.6		

- * Other working pressures and 50 Hz upon request.
- ** Unit performance measured according to ISO 1217, Annex C, Edition 4 (2009).
- *** Marine motor approval for either non-essential or essential duty.
- **** Depending on marine notified body.

Reference conditions:
 Absolute inlet pressure: 1 bar(a)/14.5 psig.
 Ambient temperature: 20 °C/68 °F.
 Relative humidity: 0%.
 Cooling water inlet temperature: 20 °C/68 °F.
 Cooling water temperature rise: 10 °C/50 °F.

General information applicable for all units		FAD** in marine conditions and measured at the following working pressures	
Max. ambient temperature	45-55 °C / 113-131 °F		Standard
Max. cooling water inlet temperature (fresh/sea)	40/32 °C / 104/90 °F	6 bar version at	6 bar
Max. cooling water pressure	10 bar(e) / 145 psig	8.6 bar version at	8.6 bar
Compressed air connection size	DN 80 / PN 16	10.4 bar version at	10.4 bar
Cooling water inlet and outlet size	DN 40 / PN 16	13.8 bar version at	13.5 bar

OPTIONS

Options	MAS 110	MAS 132	MAS 160
Fresh or sea water coolers			
Pressure vessel approvals			
DIN, ANSI or JIS flanges			
Modulating control			
Remote current monitoring			
Essential or non-essential certification			
Closed canopy to reduce noise with 14 dB(A)			
Test certificate			
Witness performance test			

