Marine Air Systems

Working Air Compressors MAS G 180-315 (W)/MAS GA 355+ (W)

1. The motor and superior screw element are directly flanged with each other to obtain minimum losses and high **reliability**
2. Easily accessible and **long lifetime** air filtration system
3. Highly efficient **marine motor** approved by notified body for essential and non-essential duty on board ships
4. Control cubicle with integrated Elektronikon® regulation ensuring **reliable and safe operation**
5. Compact machine for easy installation. Oil-retaining **frame** as standard
6. Rigid pipes for increased **durability**, lower pressure drops and reduced maintenance costs
7. Common combined **air receiver/oil separator** vessel, installed on each compressor
8. Water separator drain integrated as **standard**, with large diameter drain port for 100% condensate removal

FEATURES AND BENEFITS

OUTSTANDING PERFORMANCE

- Several starter type: Star/Delta, Dol, Soft Starter, and VSD (Variable Speed Drive) on request
- State-of-the-art screw element with unique asymmetric rotor profile and meticulous bearing selection

PROVEN RELIABILITY

- Anti-vibration pads to absorb the vibrations and increase component lifetime
- Smart unloader operated by gas forces, with less mechanical wear and optimum reliability throughout the compressor's lifetime
- Designed to run even in harsh conditions and up to 45°C ambient temperature

EASE OF OPERATION

- User-friendly interface with intuitive navigation system to access all monitoring possibilities (safety devices, service schedule, general alarms etc.)
- Small frame size (L * W * H) = 2500 *1250 *1954 mm
- Ready-to-use package including oil and aftercooler, water separator, air inlet filter

CUTTING DOWN COSTS

- Low service cost thanks to easy access to all service parts
- Increased component lifetime and improved efficiency
- Easy installation with flange and water connections located on the same side

Sustainable Productivity

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OPTIONS

- Modulating control
- Types of starter
- Fresh or sea water coolers

TECHNICAL SPECIFICATIONS

COMPRESSOR TYPE	Max. working pressure*		Capacity FAD**			Installed motor power***		Cooling water capacity	Weight	
	bar(e)	psig	l/s	m³/h	cfm	kW	hp	l/s	kg	lbs
60 Hz VERSION*										
MAS G 180	6	87	555	1999	1177	180	241	17.4	2876	6341
MAS G 180	7.5	109	529	1904	1121	180	241	18.0	2876	6341
MAS G 180	8.6	125	487	1753	1032	180	241	17.3	2876	6341
MAS G 180	10.4	151	424	1526	898	180	241	17.0	2876	6341
MAS G 180	13.8	200	371	1336	786	180	241	17.0	2876	6341
MAS G 200	7.5	109	622	2239	1318	216	290	21.6	3040	6702
MAS G 200	8.6	125	591	2126	1251	216	290	21.2	3040	6702
MAS G 200	10.4	151	523	1882	1108	216	290	21.0	3040	6702
MAS G 200	13.8	200	447	1609	947	216	290	20.5	3040	6702
MAS G 250	7.5	109	675	2430	1430	276	370	23.4	4200	9259
MAS G 250	8.6	125	674	2426	1428	276	370	25.6	4200	9259
MAS G 250	10.4	151	650	2341	1378	276	370	28.0	4200	9259
MAS G 250	13.8	200	552	1987	1170	276	370	25.0	4200	9259
MAS GA 315	7.5	109	775	2790	1643	345	470	26.1	5000	11022
MAS GA 315	8.6	125	707	2545	1498	345	470	25.0	5000	11022
MAS G 315	10.4	151	673	2422	1426	279	374	29.0	4800	10582
MAS G 315	13.8	200	667	2401	1413	279	374	34.0	4800	10582
MAS GA 355+	13.8	200	709	2552	1502	385	525	40.0	5200	11464

GENERAL INFORMATION APPLICABLE FOR ALL UNITS		
Max. ambient temperature****	45-50°C	113-122°F
Max. cooling water inlet temperature	40°C	104°F
Max. cooling water pressure	10 bar(e)	145 psig
Compressed air connection size		DN100/PN16
Cooling water inlet and outlet size		DN50/PN16

* *Other working pressures on demand (50 Hz on request).*
** *Unit performance measured according to ISO 1217, Annex C Ed. 3.*
Reference conditions:
- Absolute inlet pressure: 1 bar(a), 14.5 psig
- Relative humidity: 0%
- Ambient temperature: 20°C, 68°F
- Cooling water inlet temperature: 20°C, 68°F
- Cooling water temperature rise
(temperature difference between inlet and outlet): 10°C, 50°F
*** *Marine motor approved for non-essential duty.*
**** *Depending on marine notified body.*

MAS GA 315/355+: 3300 x 1310 x 1976 mm

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