

PET MASTER

Reciprocating Air Compressors



37-220 kW

DALGAKIRAN





3,6-23
m³/min

37-220
kW

40
bar

PET MASTER *SERIES*

*Oil-Free, Water Cooled, Fixed/Variable Speed
Reciprocating Air Compressors*

We provide reliable and high-performance air solutions for the PET bottling, food and beverage industries requiring high compression.



General Features

- Reciprocating compressor providing 100% oil-free industrial air
- Electric motor protection to prevent overload
- Water-cooled design for high energy efficiency and ability to work in severe conditions
- Energy-saving Load/Unload System for efficient operation
- Integrated electrical system for user-friendly operation
- 20-40 bar operating range
- Variable speed and fixed speed starting (optional)



Advantages

- Compact structure, easy to install and assemble.
- Takes up less room than other products in its class, providing maximum oil-free air capacity in minimum space.
- Wear due to friction is minimized. This positively affects maintenance times and costs.
- Stainless water separator increases corrosion resistance.
- Soft start prolongs component life.



Electric Motor

- IE3 efficiency-class electric motors
- Special loadless start system and automatic discharge system for loadless start
- Long life with low RPM thanks to 6 pole feature

Compressor Block

- Water jacketed cast iron cylinders and bottom heads
- Specially designed high-speed stainless steel concentric valves
- High-strength cast iron oil sumps
- Dynamically balanced high-strength forged steel crankshaft and cast iron
- Special aluminium alloy pistons and forged steel connecting rods



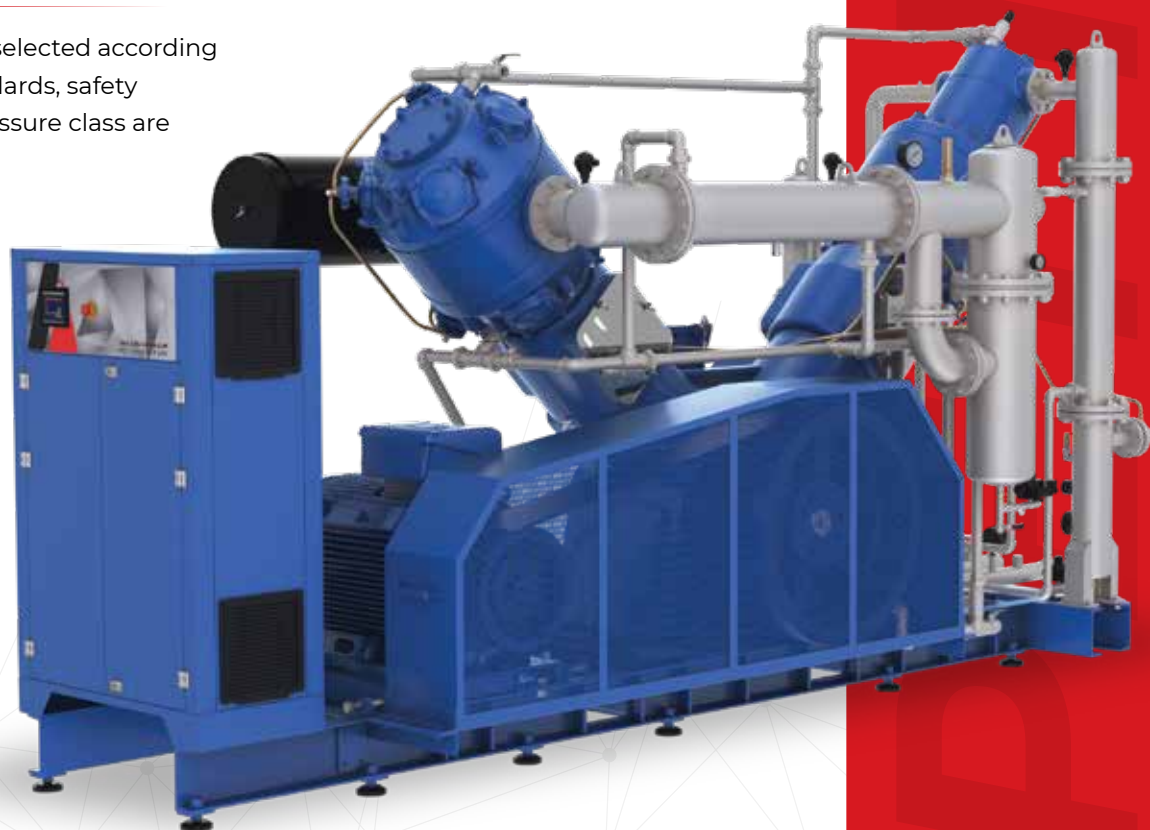
Cooling System

- The intercoolers and aftercoolers use stainless steel pipes for more efficient heat transfer and better corrosion resistance.
- The coolers are designed to pass air through the body and water through the wall.
- The compact design of the pipe-type coolers ensures easy maintenance and very efficient cooling.



Certificates

- Electrical components selected according to IEC, UL/cUL, CE standards, safety systems suitable for pressure class are used.





- Advanced, high-definition, user-friendly 6" colour touchscreen display (HMI)
- High speed, robustly built industrial type PLC infrastructure
- Encrypted Access Protection system with various levels of authorization
- Display of relevant data on the screen clearly, trend graph recording and active monitoring
- Alarm log records last 100 alarms
- Ethernet / ModBus communication as standard
- Flexible programmable / expandable Input / Output structure

Model	Pressure		Capacity*		Motor kW/HP	Connection	Dimensions			Weight kg
	bar	psi	m ³ /min	cfm			Width (mm)	Length (mm)	Height (mm)	
PET Master 50	40	580	3,6	127	37/50	G 1 1/4"	3647	1669	2395	5500
PET Master 75	40	580	5,5	194	55/75	G 1 1/4"	3647	1669	2395	5500
PET Master 100	40	580	7,4	261	75/100	G 1 1/4"	3673	1744	2470	6500
PET Master 125	40	580	9,1	321	90/125	G 1 1/4"	3673	1744	2470	6500
PET Master 150	40	580	11,6	410	110/150	G 2"	4192	1977	2814	7500
PET Master 180	40	580	13,5	477	132/175	G 2"	4192	1977	2814	7500
PET Master 220	40	580	16,4	579	160/220	G 2"	4192	1977	2814	7800
PET Master 270	40	580	21,3	752	200/270	G 2"	4234	2203	2841	9200
PET Master 300	40	580	23	812	220/300	G 2"	4234	2203	2841	9200

Model	Pressure		Capacity*				Motor kW/HP	Connection	Dimensions			Weight kg
	bar	psi	Minimum m ³ /min	Minimum cfm	Maximum m ³ /min	Maximum cfm			Width (mm)	Length (mm)	Height (mm)	
PET Master 75 VSD	40	580	4,1	145	5,5	194	55/75	G 1 1/4"	3647	1670	2395	5600
PET Master 125 VSD	40	580	6,8	240	9,1	321	90/125	G 1 1/4"	3383	2411	2407	6650
PET Master 180 VSD	40	580	10,1	357	13,5	477	132/180	G 2"	4192	1977	2814	7750
PET Master 220 VSD	40	580	12,3	434	16,4	579	160/220	G 2"	4192	1977	2814	8000
PET Master 300 VSD	40	580	17,3	611	23	812	220/300	G 2"	4234	2203	2841	9500

- Unit performances measured in reference conditions which are 1 bar absolute air Pressure, %0 relative humidity, 20°C inlet air temperature, 71°C thermostatic valve set temperature and use of Smartoil.
 - DALGAKIRAN compressors reserves its rights to make changes in its products and specifications without prior notice.
 * Refers to free air delivery measured according to ISO 1217:2009, Annex E standard.