

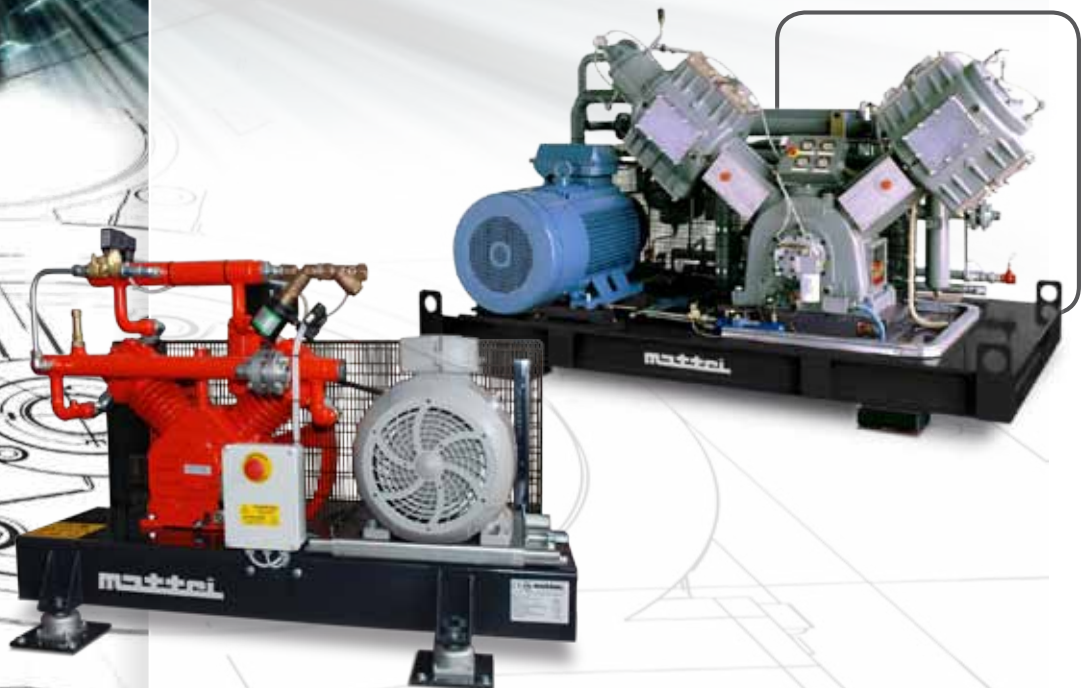


PRODUCT INFORMATION

English

Series
MCF - MBF - MBL

HIGH PRESSURE



SERIES MCF - MBF - MBL

About us

Ing. **Enea Mattei SpA** is an Italian company that has been producing air compressors since 1919. Over the years, the company has continually evolved and is today one of the world's foremost companies in the compressed air sector and the leader in the production of rotary vane compressors. Behind the success of Mattei are the choices the company has made in terms of design, production and marketing, driven by the results of its continual and in-depth research and development programmes. During these years of continual change, Mattei has been able to adapt to the requirements of the market and through the results of its research has created products that are always innovative and technologically advanced.



Certified quality

Quality as an integral part of all company functions and constant improvement of all production processes so as to always guarantee the maximum level of reliability and satisfaction. This, in brief, is the value and the meaning of **Mattei's** operational philosophy. A way of approaching the market and customers that makes **Mattei** an absolute point of reference in the compressed air sector. Since 1994, **Mattei** has been operating with a Quality System certified by the DNV Institute under UNI EN ISO 9001 regulations.



MCF & MBF Series

Oil-free Compressors and Booster

Mattei OIL-FREE reciprocating compressors and boosters supply compressed air without traces of oil, are particularly suitable for many application in the foods and chemicals, communications and electronics, pharmaceuticals, photographic, process gases, shipping and plastics industries, where there is a requirement in the manufacturing process for pressurized gases free of oil residues.

These machines, available both as compressors (atmospheric suction pressure) and as boosters (6-8 bar suction pressure), can compress process gases such as air, nitrogen, carbon dioxide, nitrous dioxide, argon and other mixtures.

MAIN APPLICATIONS OF MBF BOOSTERS

- Blowing PET plastic bottles
- Pressure testing of reservoirs, heat exchangers and other equipments
- Driving of presses
- Driving of pneumatic and hydraulic cylinders

APPLICATIONS OF MCF COMPRESSORS

- Food and chemicals
- Communications and electronics
- Pharmaceuticals
- Photographic
- Process gases
- Shipping
- Plastics



MBL Series

Lubricated boosters

The **Mattei MBL** (lubricated high-pressure boosters) series, electric motor driven, increase up to 45 bar the air coming from the normal industrial compressed air at 6-8 bar; It is single stage design (two stages version are available for pressure above 35 bar), air-cooled cylinders and low revolution speed. Those machine are suitable both for air, nitrogen and other gases.

Mattei MBL series is mounted on a steel base, includes V-belts transmission, idle/load automatic system, safety valve on discharge pressure and no-return valve.

ADVANTAGES OF MBL BOOSTERS

- Compact dimensions and low rated power
- Low energy consumption, because boosters is utilized only when high pressure air is demanded
- The industrial compressed air plant remains unchanged, installing the booster close to the applications

MAIN APPLICATIONS OF MBL BOOSTERS






- Blowing PET plastic bottles
- Pressure testing of reservoirs, heat exchangers and other equipments
- Driving of presses
- Driving of pneumatic and hydraulic cylinders



SERIES

MCF - MBF - MBL

Oil - Free reciprocating Compressors & Boosters

 Models	 Flow rate m ³ /h	 Inlet pressure Bar g	 Delivery pressure Bar g	 Motor power		N° Cylinders
				kW	hp	
OIL - FREE COMPRESSORS						
MCF 30	100	-	42	30	40	3 / 3
MCF 55	220	-	42	55	75	3 / 3
MCF 90	400	-	42	90	125	2 / 3
MCF 110	480	-	42	110	150	2 / 3
MCF 130	600	-	42	132	180	3 / 3
MCF 160	800	-	42	160	220	3 / 3
OIL - FREE BOOSTERS						
MBF 7	60	10	25	7,5	10	2 / 1
MBF 11	120	10	35	11	15	2 / 1
MBF 15	150	10	40	15	20	2 / 2
MBF 22	300	10	35	22	30	2 / 1
MBF 30	300	8	40	30	40	2 / 2
MBF 75	750	8	40	75	100	2 / 2
MBF 110	1250	7	40	110	150	2 / 2

All machines are water cooled and include inter-cooler, after-cooler, non-return valve and vibration pads.
All models include an electric switch board with star/delta starting of the motor, standard electric supply 400V/3Ph/50 Hz.

Different electric supply are available on request.

High pressure lubricated boosters

Models	Max. pressure Bar g	Suction pressure Bar g	Delivery pressure Bar g	Motor power		N° Cylinders	Speed rpm	Free air delivery in mc / min discharge pressure bar (g)					
				kW	hp			20	25	30	35	40	45
SINGLE STAGE LUBRICATED BOOSTERS													
MBL 720	20	8	20	7,5	10	2	600	1,91					
MBL 1130	35	8	30	11	15	2	700			2,17			
MBL 1520	35	8	20	15	20	2	700	3,60	3,53				
MBL 1525	35	8	25	15	20	2	700	3,60	3,53				
MBL 2220	30	8	20	22	30	2	600	5,60	5,50	5,38			
MBL 3025	30	8	25	30	40	2	600	5,60	5,50	5,38			
MBL 3030	30	8	30	30	40	2	600	5,60	5,50	5,38			
DOUBLE STAGE LUBRICATED BOOSTERS													
MBL 745	45	6	45	7,5	10	2	700						0,75
MBL 1145	45	6	45	11	15	2	600						1,00
MBL 1545	45	6	45	15	20	2	780						1,50
MBL 3045	45	6	45	30	40	2	700						4,30

All models include: steel frame, air inlet cut-off valve and by-pass valve for idling, inlet air steel strainer, overpressure valve on air outlet, no return valve, auxiliary circuits junction-box and vibration pads. Models MBL 1130 - 1520 - 1525 - 1145 - 1545 include a oil level switch (it is an option on models MBL 720 and MBL 745); models MBL 2220 - 3025 - 3030 - 3045 include a minimum pressure oil switch.

Standard electric motor supply 400V/3Ph/50Hz, auxiliary supply 24VAC/50Hz (different input available on request).

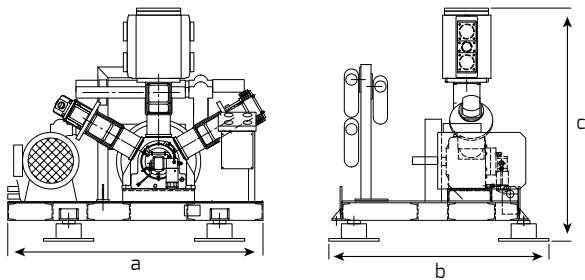
Accessories	Single stage							Double stage			
	MBL 720	MBL 1130	MBL 1520	MBL 1525	MBL 2220	MBL 3025	MBL 3030	MBL 745	MBL 1145	MBL 1545	MBL 3045
Air after-cooler up to 4,0 m ³ /min at 40 bar (without separator)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pressure switch 10 - 35 bar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pressure switch 10 - 50 bar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pressure trasmitter 0 - 50 bar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inlet pressure trasmitter 0 - 15 bar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil level switch	✓							✓			
Temperature probe PT100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cabinet	✓										
Cabinet			✓								
Cabinet					✓						

SERIES MCF - MBF - MBL

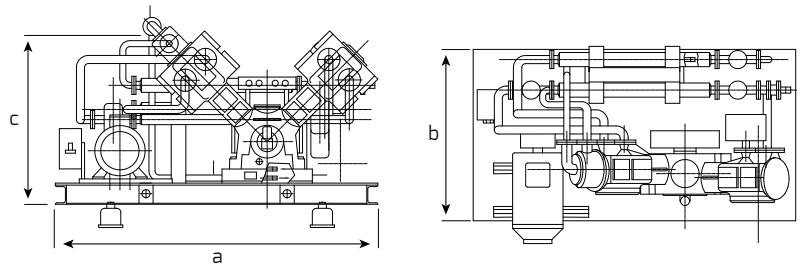
Oil - free Compressors & Boosters

Overall dimensions

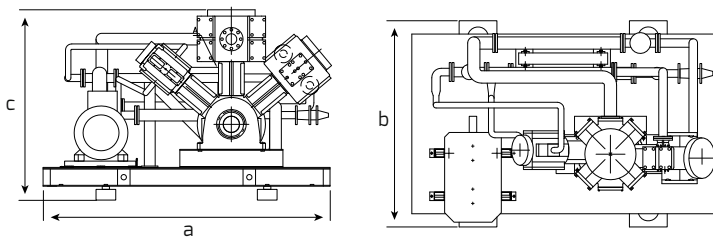
MCF 30 ÷ 55



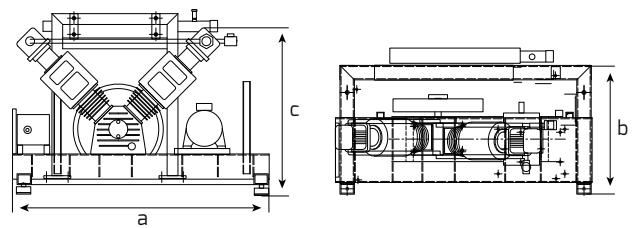
MCF 90 ÷ 110



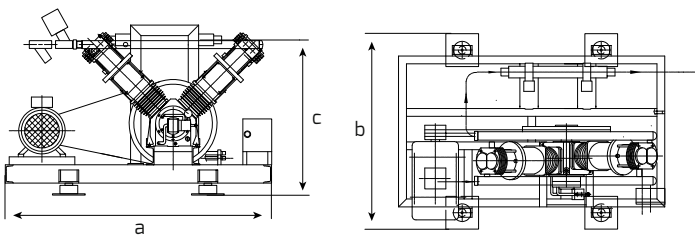
MCF 130 ÷ 160



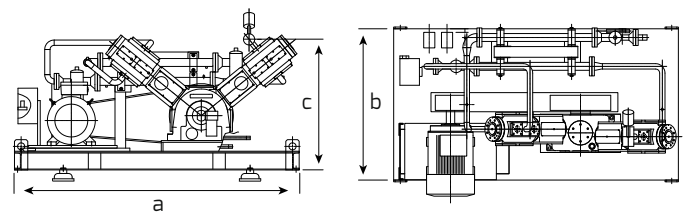
MBF 7 ÷ 15





MBF 22 ÷ 30







MBF 75 ÷ 110



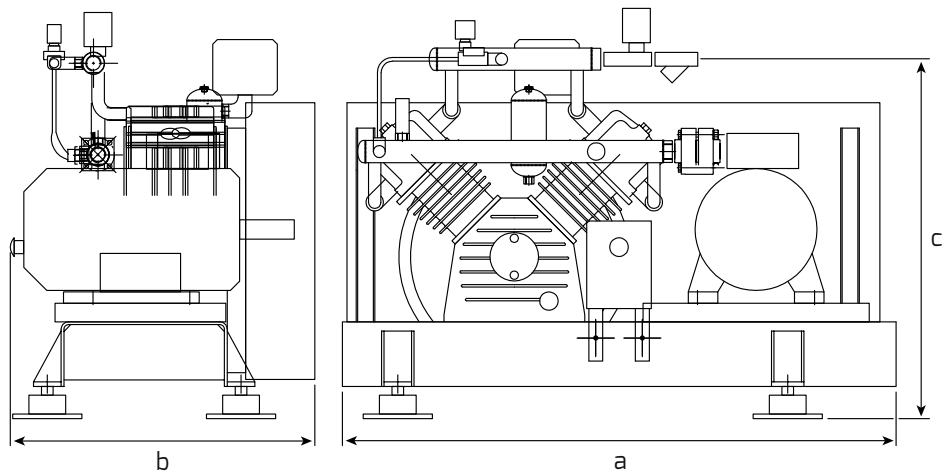
			
	Length (mm)	Width (mm)	Height (mm)
	A	B	C
MCF 30 ÷ 55	2030	1890	1915
MCF 90 ÷ 110	3200	1700	1900
MCF 130 ÷ 160	3200	2180	2150
MBF 7 ÷ 15	1430	700	980
MBF 22 ÷ 30	2030	1490	1183
MBF 75 ÷ 110	3200	1700	1588

Lubricated boosters

Overall dimensions

					
	Length (mm)	Width (mm)	Height (mm)	Weight	Noise level
	A	B	C	kg	dB(A)
SINGLE STAGE LUBRICATED BOOSTERS					
MBL 720	1050	620	870	175	76
	1200*	700*	1050*	175*	66*
MBL 1130	1200	660	890	300	77
MBL 1520	1200	690	890	320	78
	1200*	700*	1050*	410*	68*
MBL 1525	1200	660	890	300	77
MBL 2220	1250	690	910	590	78
	1350*	845*	1080*	730*	69*
MBL 3025	1250	690	910	630	78
MBL 3030	1250	690	910	630	78
DOUBLE STAGE LUBRICATED BOOSTERS					
MBL 745	1130	660	830	185	77
MBL 1145	1200	705	870	320	77
MBL 1545	1200	705	870	330	78
MBL 3045	1300	980	950	820	78

(*) Silent version





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