



English

SERIES
AIR CENTRE 30 - 45 kW

ROTARY VANE COMPRESSORS



- AC
- AC R
- AC W
- AC PLUS
- AC R PLUS
- AC W PLUS

SERIES AIR CENTRE



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.





Rotary vane compressors

Series AIR CENTRE

- ▶ The AC 2000 Series offers a flexible choice of setup. The basic version of the AC 2000 series differentiates itself and stands out for the absence of an independent electrically driven fan. The cooling of the compressed air system is guaranteed by a fan directly mounted on the main motor's shaft. This solution is not only extremely essential in design but also energy effective, since the electric motor of the fan has been eliminated.
- ▶ For those applications in which environmental awareness is at its highest, Mattei offers the version equipped with a centrifugal fan. In fact, this solution offers an extremely reduced sound level, amongst the lowest in its category.

- ▶ The new design is essential and combines compactness, occupying minimal space, and excellent accessibility to all components, of great advantage for an easy and quick maintenance.



Efficiency

Mattei's exclusive high technology airends have been reengineered to deliver even better performances in industrial applications. Reliability and efficiency are enhanced by the airend's extremely reduced rotational speed only 1500 rpm.

Simple and economic maintenance*

Maintenance operations only include changing the oil at predetermined intervals, cleaning or replacing the air filter and cleaning the radiator. The separator filters are substituted every 10,000 working hours, with significant savings. The absence of roller bearings helps to reduce significantly the cost for maintenance.

Energy saving

The range is equipped with energy saving electric motors. The electric motor is directly coupled to the airend, allowing great advantages in overall efficiency of the compressed air unit, meaning less kW per m³/min.

Direct coupling

The electric motor and the compressor are coupled directly by means of flexible coupling and turn at only 1500 rpm. Direct coupling determines a remarkable "energy saving" because there are no energy losses caused by gears or V belts.

Blades designed for over 100,000 hours life*

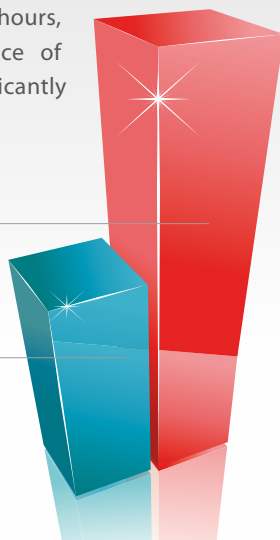
An oil film on the stator's inside surface prevents the moving parts from wearing out by avoiding a direct contact with the blades.

OTHER COMPRESSORS

MAINTENANCE

MATTEI'S COMPRESSORS

MAINTENANCE



*with Mattei V-Life

Operational mode

Modulation operating mode at constant pressure

Thanks to a modulating proportional intake valve that supplies air at constant pressure, these compressors can even work without a receiver. With this regulation air delivery is automatically adapted to the system demand.

Combined ON/OFF load and modulation regulation

This regulation allows Mattei compressors to modulate within a set pressure range (for example, ± 0.3 bar). Should the air demand decrease, this regulation also allows the compressor to run off load and stop, with evident energy savings.

Energy saving automatic on load / off load

This regulation maintains the line pressure within a range of minimum and maximum pressure set by the pressure switch and the compressor may stop and restart according to air demand.

When the line pressure reaches the minimum value the compressor will run on load delivering 100% of its capacity. When the pressure reaches the maximum value the compressor will run off load with the immediate closure of the intake valve, which sets off the rapid decompression phase, allowing a significant reduction of the absorbed power consumption. Should the pressure continue to remain high, the compressor will stop.



PLUS VERSION

Dryer with ecological gas

The plus version includes the integrated installation of a direct expansion refrigeration dryer, which is air cooled and filled with environmentally friendly gas. The combination of a Mattei rotary vane air compressor with an integrated dryer and where applicable mounted on an air receiver is the ideal solution for a complete and compact system.

- ▶ Efficient refrigerating power partialization
- ▶ Constant dewpoint
- ▶ MAESTRO^{XS} control
- ▶ High efficiency



MAESTRO^{XS}

To have everything under control

The AC 2000 series is equipped with an exclusive state-of-the-art computerised controller, Maestro^{XS}. This system automatically controls, monitors and programmes the unit's operation, and can be connected to a PC for a remote control. If connected to other compressed air packages equipped with Maestro^{XS}, the unit can become master of a compressed air plant, thus saving on the installation of a superior controller. Maestro^{XS} can be interfaced via web or cellular technology to provide remote service monitoring.



Technical data

50 Hz

| Model | Tension | Air receiver | Power | | Flow | | | | | | Sound pressure level | Length | | Width | | Height | | Weight | |
|--------------|---------|--------------|-------|----|------------------------|-------|-------------------------|-------|--------------------------|-------|----------------------|--------|------|-------|------|--------|------|--------|------|
| | | | | | 8 bar 115 psig L | | 10 bar 150 psig H | | 13 bar 175 psig HH | | | mm | inch | mm | inch | mm | inch | | |
| | V/f | l | kW | hp | m ³ /min | cfm | m ³ /min | cfm | m ³ /min | cfm | dB(A) | mm | inch | mm | inch | mm | inch | kg | lbs |
| AC 30 | 400/3 | - | 30 | 40 | 5,62 | 198,4 | 4,67 | 164,9 | 3,67 | 129,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 800 | 1760 |
| AC 37 | 400/3 | - | 37 | 50 | 6,8 | 240,1 | 5,65 | 199,5 | 4,8 | 169,5 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 830 | 1826 |
| AC 45 | 400/3 | - | 45 | 60 | 8,28 | 292,4 | 7 | 247,2 | 5,85 | 206,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 940 | 2068 |
| AC 30 PLUS | 400/3 | - | 30 | 40 | 5,62 | 198,4 | 4,67 | 164,9 | 3,67 | 129,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 900 | 1980 |
| AC 37 PLUS | 400/3 | - | 37 | 50 | 6,8 | 240,1 | 5,65 | 199,5 | 4,8 | 169,5 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 930 | 2046 |
| AC 45 PLUS | 400/3 | - | 45 | 60 | 8,28 | 292,4 | 7 | 247,2 | 5,85 | 206,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 1040 | 2288 |
| AC 30 R | 400/3 | - | 30 | 40 | 5,62 | 198,4 | 4,67 | 164,9 | 3,67 | 129,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 820 | 1804 |
| AC 37 R | 400/3 | - | 37 | 50 | 6,8 | 240,1 | 5,65 | 199,5 | 4,8 | 169,5 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 850 | 1870 |
| AC 45 R | 400/3 | - | 45 | 60 | 8,28 | 292,4 | 7 | 247,2 | 5,85 | 206,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 960 | 2112 |
| AC 30 R PLUS | 400/3 | - | 30 | 40 | 5,62 | 198,4 | 4,67 | 164,9 | 3,67 | 129,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 920 | 2024 |
| AC 37 R PLUS | 400/3 | - | 37 | 50 | 6,8 | 240,1 | 5,65 | 199,5 | 4,8 | 169,5 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 950 | 2090 |
| AC 45 R PLUS | 400/3 | - | 45 | 60 | 8,28 | 292,4 | 7 | 247,2 | 5,85 | 206,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 1060 | 2332 |
| AC 30 W | 400/3 | - | 30 | 40 | 5,62 | 198,4 | 4,67 | 164,9 | 3,67 | 129,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 820 | 1804 |
| AC 37 W | 400/3 | - | 37 | 50 | 6,8 | 240,1 | 5,65 | 199,5 | 4,8 | 169,5 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 850 | 1870 |
| AC 45 W | 400/3 | - | 45 | 60 | 8,28 | 292,4 | 7 | 247,2 | 5,85 | 206,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 960 | 2112 |
| AC 30 W PLUS | 400/3 | - | 30 | 40 | 5,62 | 198,4 | 4,67 | 164,9 | 3,67 | 129,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 920 | 2024 |
| AC 37 W PLUS | 400/3 | - | 37 | 50 | 6,8 | 240,1 | 5,65 | 199,5 | 4,8 | 169,5 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 950 | 2090 |
| AC 45 W PLUS | 400/3 | - | 45 | 60 | 8,28 | 292,4 | 7 | 247,2 | 5,85 | 206,6 | 66 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 1060 | 2332 |

60 Hz

| | | | | | | | | | | | | | | | | | | | |
|--------------|-------|---|----|----|-----|-------|-----|-------|------|-------|----|------|------|-----|------|------|------|------|------|
| AC 30 | 460/3 | - | 30 | 40 | 6 | 211,9 | 5,7 | 201,3 | 4,9 | 173 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 800 | 1760 |
| AC 37 | 460/3 | - | 37 | 50 | 7,4 | 261,3 | 6,9 | 243,6 | 5,85 | 206,6 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 830 | 1826 |
| AC 45 | 460/3 | - | 45 | 60 | 9,9 | 349,6 | 8,7 | 307,2 | 7,2 | 254,2 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 940 | 2068 |
| AC 30 PLUS | 460/3 | - | 30 | 40 | 6 | 211,9 | 5,7 | 201,3 | 4,9 | 173 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 900 | 1980 |
| AC 37 PLUS | 460/3 | - | 37 | 50 | 7,4 | 261,3 | 6,9 | 243,6 | 5,85 | 206,6 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 930 | 2046 |
| AC 45 PLUS | 460/3 | - | 45 | 60 | 9,9 | 349,6 | 8,7 | 307,2 | 7,2 | 254,2 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 1040 | 2288 |
| AC 30 R | 460/3 | - | 30 | 40 | 6 | 211,9 | 5,7 | 201,3 | 4,9 | 173 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 820 | 1804 |
| AC 37 R | 460/3 | - | 37 | 50 | 7,4 | 261,3 | 6,9 | 243,6 | 5,85 | 206,6 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 850 | 1870 |
| AC 45 R | 460/3 | - | 45 | 60 | 9,9 | 349,6 | 8,7 | 307,2 | 7,2 | 254,2 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 960 | 2112 |
| AC 30 R PLUS | 460/3 | - | 30 | 40 | 6 | 211,9 | 5,7 | 201,3 | 4,9 | 173 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 920 | 2024 |
| AC 37 R PLUS | 460/3 | - | 37 | 50 | 7,4 | 261,3 | 6,9 | 243,6 | 5,85 | 206,6 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 950 | 2090 |
| AC 45 R PLUS | 460/3 | - | 45 | 60 | 9,9 | 349,6 | 8,7 | 307,2 | 7,2 | 254,2 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 1060 | 2332 |
| AC 30 W | 460/3 | - | 30 | 40 | 6 | 211,9 | 5,7 | 201,3 | 4,9 | 173 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 820 | 1804 |
| AC 37 W | 460/3 | - | 37 | 50 | 7,4 | 261,3 | 6,9 | 243,6 | 5,85 | 206,6 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 850 | 1870 |
| AC 45 W | 460/3 | - | 45 | 60 | 9,9 | 349,6 | 8,7 | 307,2 | 7,2 | 254,2 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 960 | 2112 |
| AC 30 W PLUS | 460/3 | - | 30 | 40 | 6 | 211,9 | 5,7 | 201,3 | 4,9 | 173 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 920 | 2024 |
| AC 37 W PLUS | 460/3 | - | 37 | 50 | 7,4 | 261,3 | 6,9 | 243,6 | 5,85 | 206,6 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 950 | 2090 |
| AC 45 W PLUS | 460/3 | - | 45 | 60 | 9,9 | 349,6 | 8,7 | 307,2 | 7,2 | 254,2 | 68 | 1830 | 72,1 | 960 | 37,8 | 1670 | 65,8 | 1060 | 2332 |

F.A.D. in accordance with ISO 1217, annex "C" | Sound pressure level according to ISO 2151, tolerance $\pm 3\text{dB(A)}$ | Working pressure: 7,5 bar for version 8 bar - 9,5 bar for version 10 bar - 12,5 bar for version 13 bar



ITALY - ING. ENEA MATTEI SpA
Strada Padana Superiore, 307
20090 VIMODRONE (MI)
Tel + 39 02253051 - Fax +39 0225305243
E-mail: info@mattei.it

www.matteigroup.com



FRANCE

MATTEI COMPRESSEURS
Phone +33 535 542 205 - Fax +33 972 316 833
E-MAIL: infos@mattei.fr - www.mattei.fr

GERMANY

MATTEI KOMPRESSOREN DEUTSCHLAND GmbH
Phone +49 7151 5002560 - Fax +49 7151 5002565
E-MAIL: info@mattei-kompressoren.de - www.mattei-kompressoren.de

GREAT BRITAIN

MATTEI COMPRESSORS Ltd
Phone +44 (0)1789 450577 - Fax +44 (0)1789 450698
E-MAIL: info@mattei.co.uk - www.mattei.co.uk

U.S.A.

MATTEI COMPRESSORS Inc
Phone +1 410 5217020 - Fax +1 410 5217024
E-MAIL: info@matteicomp.com - www.matteicomp.com

RUSSIAN FEDERATION

ING. ENEA MATTEI SpA
Phone +7 499 1124877
E-MAIL: mattei-rus@mail.ru

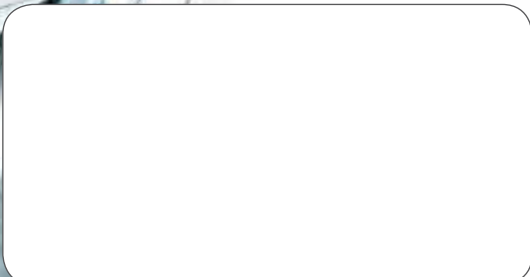
SPAIN

ING. ENEA MATTEI SpA
Phone +34 93 435 03 94 - Fax +34 93 455 26 76
E-MAIL: info@mattei.it

PEOPLE'S REPUBLIC OF CHINA

Mattei (SuZhou) Air Compressors Manufacturing Co., Ltd
WFOE by Ing. Enea Mattei SpA - Italy
Tel: +86 512 66679986 Fax: +86 512 66679989
E-MAIL: info@matteisuzhou.cn - www.matteisuzhou.com

UNI EN ISO 9001:2015



REV.0