

SERIES
AIR CENTRE 4 - 15 kW

ROTARY VANE COMPRESSORS



AC
ACS
AC PLUS
ACS 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

Mattei's Air Centre series compressors are complete and efficient machines that are ideal for any type of industrial application.

Direct coupling

Mattei has always produced compressors in which the electric motor, which turns at a speed of only 1,500 rpm, is directly coupled to the compression unit by means of a flexible joint. This direct, in-line coupling results in considerable energy saving as there are no losses due to the presence of pulley wheels and drive belts.



Automatic flow rate control

As well as the classic "ON/OFF OPERATION" mode, all of the models, from the AC 4 to the AC 15s, are fitted with the special modulating proportional intake valve which allows air supply at a constant pressure and even offers the possibility of working without an air storage tank.

A high efficiency oil separation

The separation of the lubrication oil from the compressed air takes place in multiple stages. A first separation occurs in the oil chamber as the air passes through a labyrinth path, then it continues at the separator inlet (before the filter) where the air flow slows down passing through a series of directional variations, and finally through the coalescing filter. Due to this superior separation system the oil carry over is extremely low, leading to improved separator life, greater protection for the application and reduced operating costs.

Compressor and dryer: all - in - one

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.

Durable and quiet

AIR CENTRE compressors are epoxy powder coated and corrosion and scratch resistant. In addition they are lined internally with a thick layer of high-quality soundproof material and equipped with a high efficiency cabinet pre-filter. This filtering device prevents the radiator and main air filter from premature clogging caused by impurities in the intake air, thus providing additional cost savings.



MAESTRO^{XS} and MICROC

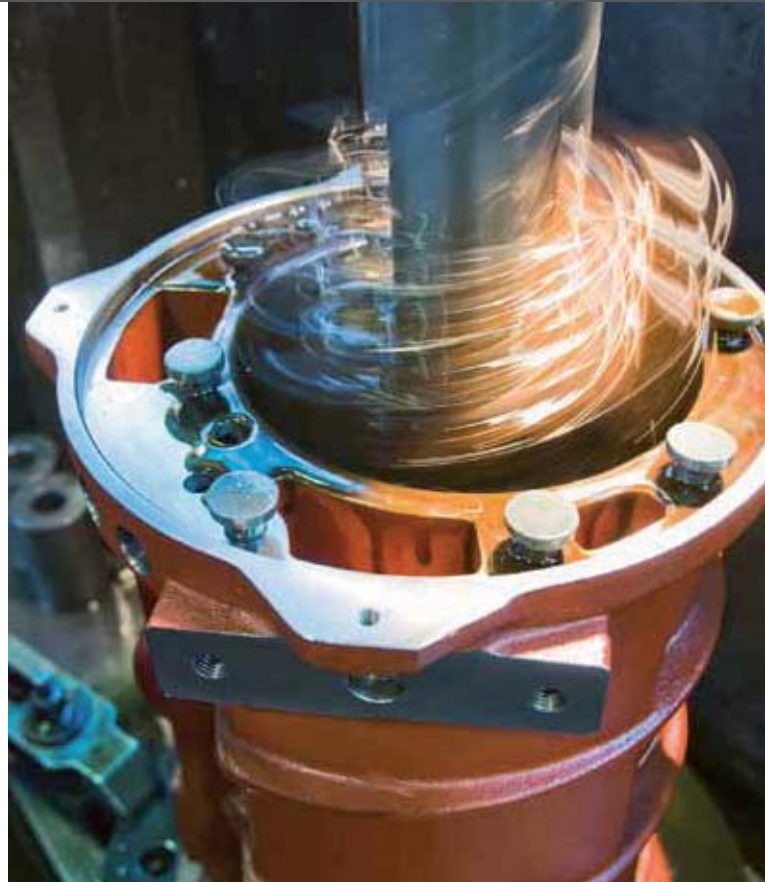
to have everything under control

With a view to energy saving, the communication inside a compressor room plays a decisive role.

It is absolutely essential to manage, control and immediately intervene in the operation of the system in order to prevent waste and unnecessary energy consumption. For this reason, all of Mattei's Air Centre compressors are fitted as standard with a microprocessor command and control device: MicroC for models AC 4 and AC 5 and Maestro^{XS} for all other AC models.

Maestro^{XS} and MicroC are programmable controllers, which regulate the compressor's operation and adapt this to the specific requirements of the air distribution system. They have different programming levels and special options of controlling and analysing the operation and faults. Advanced programming and analysis levels are protected by digital codes to avoid unintentional tampering.

Maestro^{XS} and MicroC have an integrated memory module that stores the operational settings and data in case of a power failure.



MAESTRO^{XS}: features and functions

- Ergonomic control panel with quick access keys to main menus.
- Menu access keys, start, stop and reset led keys.
- Semi-graphic LCD display with illuminated text.
- 24 Vdc digital inputs.
- Digital dry contacts output up to 230 Vac and up to 24 Vdc.
- Interfaces:
 - RS485 for intercommunication with other MAESTRO devices.
 - RS485 (optional) to communicate with the supervising PC and network.
- Analogue data display (line pressure, chamber pressure, oil temperature, outgoing air temperature) and general data (alarms, operating messages, machine state, maximum and minimum pressure, last start and stop times).
- Hour counter to display the enabled, working and load times and maintenance notices.
- Events database to store alarms and blocks, with alarm intervention indication, alarm intervention time, machine state.
- Multi-language user interface.
- Weekly and hourly programmable start and stop times.
- Immediate reading of the compressor operating data on the display.
- Basic and advanced parameters programming for an optimal operation of the compressor.
- Storage of up to 20 malfunctioning events.
- Storage of the last 20 programme modifications.
- Control of the integrated dryer.
- Machine start and stop remote control.
- The feedback (as standard), through dry contacts, of the following machine states: enabled compressor, working compressor, loaded compressor, blocked compressor.

MICROC: features and functions



- 7-segment data display
- 4 keys for data consultation and programming
- RS-485 communication port (optional) for connection to a dedicated supervisor
- Display of analogue data (line pressure, oil temperature, outlet air temperature) and general data (alarms, operational messages, machine status, max. and min. pressure)
- Hour meter for display of enabled, operational, on-load and maintenance warning times
- Events archive for storing alarms and blocks, with details of the alarm, alarm time and machine status
- Weekly and hourly programming of starting and stopping
- Programming of basic and advanced parameters
- Storage of up to 5 fault events
- Remote control for starting/stopping machine
- Sending, by means of voltage-free contacts, of the following machine statuses: compressor enabled (optional), compressor operating (optional), compressor loaded (optional), compressor blocked (standard).

Technical data

50 Hz

Model	Tension	Air receiver	Power		Flow						Sound pressure level	Dimensions							
					8 bar 115 psig L		10 bar 150 psig H		13 bar 175 psig HH			Length		Width		Height		Weight	
V/f	I	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 4	400/3	-	4	5	0,7	24,7	0,53	18,7	0,49	17,3	65	1010	39,8	540	21,3	830	32,7	145	319
AC 5	400/3	-	5,5	7,5	0,89	31,4	0,76	26,8	0,57	20,1	65	1010	39,8	540	21,3	830	32,7	150	330
AC 7	400/3	-	7,5	10	1,38	48,7	1,15	40,6	0,96	33,9	65	1250	49,3	610	24	1040	41	220	484
AC 11	400/3	-	11	15	1,97	69,6	1,7	60	1,35	47,7	65	1250	49,3	610	24	1040	41	240	528
AC 15s	400/3	-	15	20	-	-	1,95	68,9	1,83	64,6	65	1250	49,3	610	24	1040	41	260	572
AC 4 PLUS	400/3	-	4	5	0,7	24,7	0,53	18,7	0,49	17,3	65	1010	39,8	540	21,3	830	32,7	165	363
AC 5 PLUS	400/3	-	5,5	7,5	0,89	31,4	0,76	26,8	0,57	20,1	65	1010	39,8	540	21,3	830	32,7	170	374
AC 7 PLUS	400/3	-	7,5	10	1,38	48,7	1,15	40,6	0,96	33,9	65	1250	49,3	610	24	1040	41	245	539
AC 11 PLUS	400/3	-	11	15	1,97	69,6	1,7	60	1,35	47,7	65	1250	49,3	610	24	1040	41	265	583
AC 15s PLUS	400/3	-	15	20	-	-	1,95	68,9	1,83	64,6	65	1250	49,3	610	24	1040	41	285	627
ACS 4	400/3	270	4	5	0,7	24,7	0,53	18,7	0,49	17,3	65	1530	60,3	630	24,8	1350	53,2	195	429
ACS 5	400/3	270	5,5	7,5	0,89	31,4	0,76	26,8	0,57	20,1	65	1530	60,3	630	24,8	1350	53,2	200	440
ACS 7	400/3	270	7,5	10	1,38	48,7	1,15	40,6	0,96	33,9	65	1530	60,3	750	29,6	1540	60,7	310	682
ACS 11	400/3	270	11	15	1,97	69,6	1,7	60	1,35	47,7	65	1530	60,3	750	29,6	1540	60,7	330	726
ACS 15s	400/3	270	15	20	-	-	1,95	68,9	1,83	64,6	65	1530	60,3	750	29,6	1540	60,7	350	770
ACS 4 PLUS	400/3	270	4	5	0,7	24,7	0,53	18,7	0,49	17,3	65	1530	60,3	630	24,8	1350	53,2	215	473
ACS 5 PLUS	400/3	270	5,5	7,5	0,89	31,4	0,76	26,8	0,57	20,1	65	1530	60,3	630	24,8	1350	53,2	220	484
ACS 7 PLUS	400/3	270	7,5	10	1,38	48,7	1,15	40,6	0,96	33,9	65	1530	60,3	750	29,6	1540	60,7	335	737
ACS 11 PLUS	400/3	270	11	15	1,97	69,6	1,7	60	1,35	47,7	65	1530	60,3	750	29,6	1540	60,7	355	781
ACS 15s PLUS	400/3	270	15	20	-	-	1,95	68,9	1,83	64,6	65	1530	60,3	750	29,6	1540	60,7	375	825

60 Hz

AC 4	460/3	-	4	5	0,73	25,8	0,63	22,2	0,43	15,2	67	1010	39,8	540	21,3	830	32,7	145	319
AC 5	460/3	-	5,5	7,5	1,02	36	0,82	29	0,69	24,4	67	1010	39,8	540	21,3	830	32,7	150	330
AC 7	460/3	-	7,5	10	1,39	49,1	1,2	42,4	1,18	41,7	67	1250	49,3	610	24	1040	41	220	484
AC 11	460/3	-	11	15	2,11	74,5	1,87	66	1,65	58,3	67	1250	49,3	610	24	1040	41	240	528
AC 4 PLUS	460/3	-	4	5	0,73	25,8	0,63	22,2	0,43	15,2	67	1010	39,8	540	21,3	830	32,7	165	363
AC 5 PLUS	460/3	-	5,5	7,5	1,02	36	0,82	29	0,69	24,4	67	1010	39,8	540	21,3	830	32,7	170	374
AC 7 PLUS	460/3	-	7,5	10	1,39	49,1	1,2	42,4	1,18	41,7	67	1250	49,3	610	24	1040	41	245	539
AC 11 PLUS	460/3	-	11	15	2,11	74,5	1,87	66	1,65	58,3	67	1250	49,3	610	24	1040	41	265	583
ACS 4	460/3	270	4	5	0,73	25,8	0,63	22,2	0,43	15,2	67	1530	60,3	630	24,8	1350	53,2	195	429
ACS 5	460/3	270	5,5	7,5	1,02	36	0,82	29	0,69	24,4	67	1530	60,3	630	24,8	1350	53,2	200	440
ACS 7	460/3	270	7,5	10	1,39	49,1	1,2	42,4	1,18	41,7	67	1530	60,3	750	29,6	1540	60,7	310	682
ACS 11	460/3	270	11	15	2,11	74,5	1,87	66	1,65	58,3	67	1530	60,3	750	29,6	1540	60,7	330	726
ACS 4 PLUS	460/3	270	4	5	0,73	25,8	0,63	22,2	0,43	15,2	67	1530	60,3	630	24,8	1350	53,2	215	473
ACS 5 PLUS	460/3	270	5,5	7,5	1,02	36	0,82	29	0,69	24,4	67	1530	60,3	630	24,8	1350	53,2	220	484
ACS 7 PLUS	460/3	270	7,5	10	1,39	49,1	1,2	42,4	1,18	41,7	67	1530	60,3	750	29,6	1540	60,7	335	737
ACS 11 PLUS	460/3	270	11	15	2,11	74,5	1,87	66	1,65	58,3	67	1530	60,3	750	29,6	1540	60,7	355	781



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