

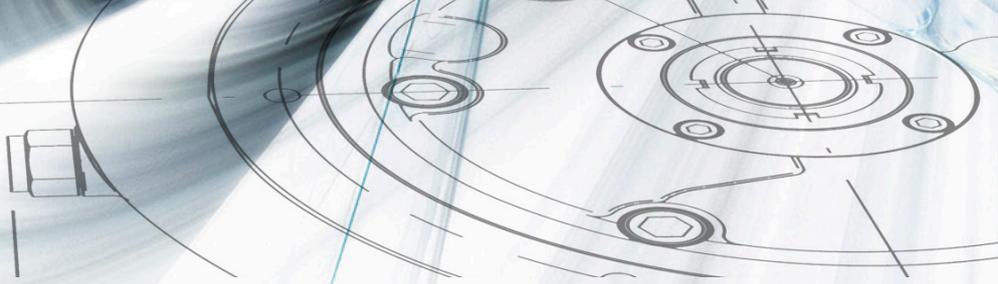


SERIES  
**CLASSIC 30 - 45 kW**

ROTARY VANE COMPRESSORS



# SERIES CLASSIC



## 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.

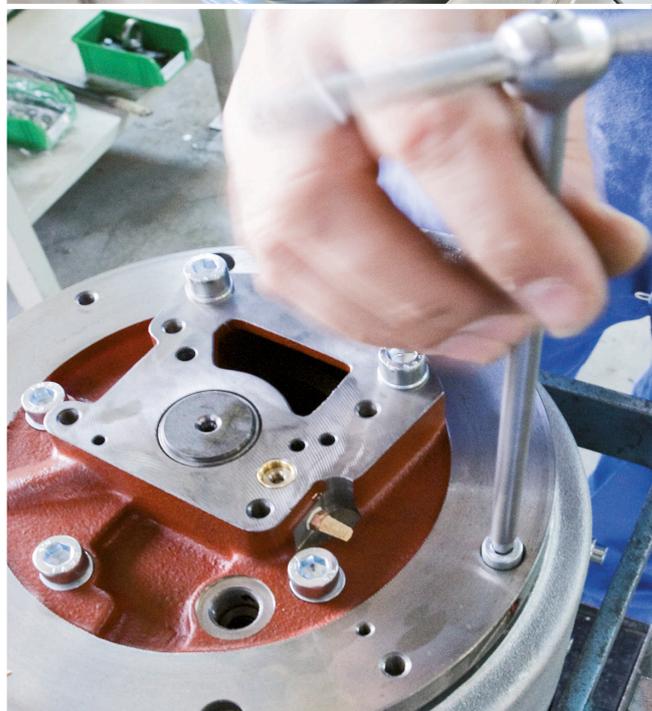
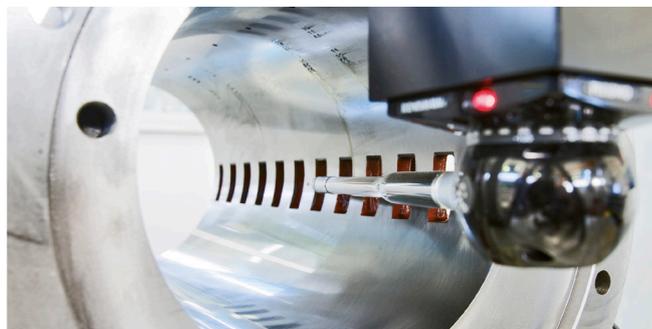
During these years of continual change, Mattei has been able to adapt to the requirements of the market and through the results of its research has created products that are always innovative and technologically advanced.



## 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.





## PERFORMANCE, EFFICIENCY, QUALITY

### Ideal for industrial use and 24 hour a day operation

The ERC 1030-2045 are equipped with the MICROMAT electronic controller. Micromat is a programmable system which controls the compressor operation and adapts this to the specific requirements of the air distribution system. It has 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. Micromat has an integrated memory module that stores the operational settings and data in case of power loss.

### Direct coupling

Mattei ERC Series 40-60 hp compressors are true direct-drive machines. Each deploys a 4-pole 60 Hertz electric motor that transfers power through a flexible jaw coupling that allows them to rotate at just 1,800 rpm.



### Reliability

Rugged and dependable integrated compression system design eliminates leak points. Legendary Vane Technology delivers a product designed to operate in excess of 100,000 hours without an airend overhaul.

### AIR cooling

The coolers guarantees aftercooler approach temperatures no higher than 18 °F above room temperature.

### Energy Consumption

Thanks to the slow speed design and complete absence of belts or gears, these compressors offer low energy consumption for every cubic foot of air delivered. The regulation system, allowing to choose between continuous or automatic with off-load operation, is standard on each machine and allows to adapt operation to the needs of the customer.

### Automatic flow rate control

As well as the classic "ON/OFF OPERATION" mode, all of the models, 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.

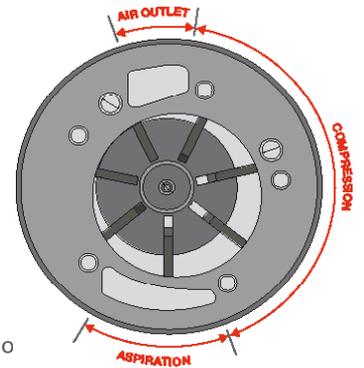
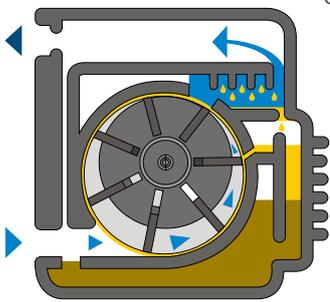
## Operating principle

Maximum efficiency of the air compression process, excellent reliability and low running costs; are just some of the key benefits that rotary vane technology can offer.

The vane compressor is a volumetric rotary compressor that consists of a stator cylinder in which a rotor is mounted off-centre but parallel to its sides.

The rotor has slots in which the vanes are free to slide: centrifugal force keeps them in contact with the sides of the stator during rotation. The rotary vane compressor, thanks to its **simple construction**, offers remarkable advantages, first among them being **greater volume yield** because the vanes are in constant contact with the inner wall of the stator and form a perfectly airtight seal with no leaks along the wall thanks to a continuous film of oil. In this type of compressor no axial thrust

is generated so the side surfaces of the rotor are not subject to wear and thus no rotating bearings or thrust bearings are needed. The vanes, too, because of the special way they are made have practically **unlimited life**. Behind the success of Mattei compressors there is thus **extreme reliability, long life, quiet operation and simplicity of maintenance**. Design is important too: compactness and clean lines, together with harmonious shapes, give Mattei compressors an image of robustness and ease of use.



## Features

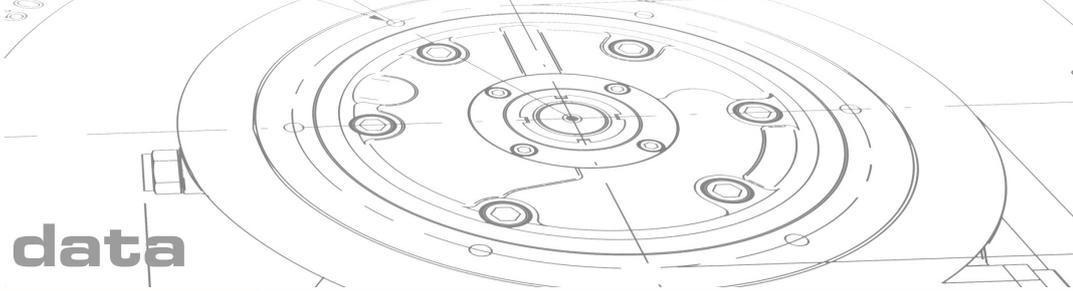
- ▶ DIRECT COUPLING THROUGH FLEXIBLE JOINT
- ▶ OIL RADIATOR AND CENTRIFUGAL COOLING FAN
- ▶ AIR DELIVERY AUTOMATIC CONTROL WITH CONSTANT PRESSURE
- ▶ THERMODYNAMICALLY BALANCED INLET AIR FLOW TO ENSURE MAXIMUM EFFICIENCY OF THE COMPRESSOR
- ▶ THERMOSTATIC VALVE ENSURES OPTIMUM OPERATING TEMPERATURE AND ENERGY EFFICIENCY

## Standard equipment

- ▶ SAFETY THERMOSTAT FOR HIGH OIL TEMPERATURE
- ▶ ON BOARD PRESSURE GAUGE
- ▶ VISUAL OIL LEVEL INDICATOR
- ▶ FIRST FILLING WITH "ROTOROIL F2" SYNTHETIC OIL
- ▶ HIGH EFFICIENCY INTAKE FILTER
- ▶ AFTERCOOLER



# Technical data



## 60 Hz

 Model	 8 bar 115 psig		8.6 bar 125 psig		 Sound pressure level	 Power		 Tension				 LB
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm		dB(A)	kW		hp	V/f	L inch	
<b>ERC 1030 L</b>	6	154	5,7	-	81	30	40	200, 230/460, 575V/60Hz/3Ph	62	24	39	1.050
<b>ERC 2037</b>	7,4	-	6,9	212	85	37	50	200, 230/460, 575V/60Hz/3Ph	68	33	48	1.420
<b>ERC 2045</b>	9,9	-	8,7	260	86	45	60	200, 230/460, 575V/60Hz/3Ph	68	33	48	1.420

F.A.D. in accordance with ISO 1217, annex "C"  
 Sound pressure level according to ISO 2151, tolerance  $\pm 3$ dB(A).



THINK GREEN

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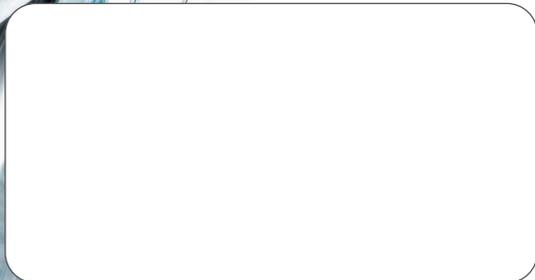
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UNI EN ISO 9001:2015



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