



3000

ERC Series



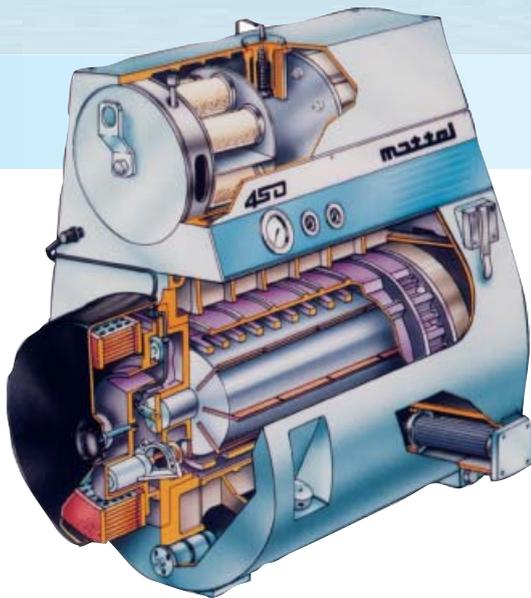
PERFORMANCE - EF

The ERC COMPACT compressors of the 3000 series, with installed power from 55 to 75 kW, are complete and ready to use compressed air centres. Reliable and compact these compressors are ideal for 24 hours continuous operation without any alterations in performance.

OPERATION PRINCIPLE

The air is sucked through a filter and passes through a modulating proportional valve which regulates air delivery according to air requirement. This valve allows to maintain a constant working pressure. The air goes into the compression chamber where the stator, rotor and blades create a series of vanes (or volumes). The rotor rotates eccentrically to the stator and is characterised by vertical slots in which the blades are placed and are pushed against the stator's wall by centrifugal force.

Lubrication and cooling are guaranteed by an efficient injection system which allows perfect hold and a lower lubricant consumption. A thin film of oil on the stator's wall avoids direct contact of the metal parts giving no wear.



ENERGY CONSUMPTION

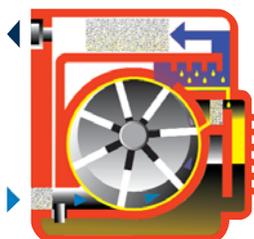
Thanks to the meticulous design, the compressor has one of the lowest energy consumption per cubic metre of delivered air rates. The regulation system, allowing to choose between continuous or automatic with off-load operation, is standard on each machine and allows to adapt operation to the needs of the customer.



AIR COOLING

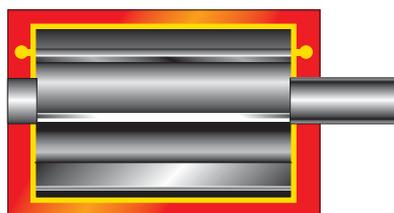
The coolers guarantee a temperature higher than 7°K above ambient.

AIR/OIL SEPARATION



The three-stage system for separating the oil from the air assures the oil residue level in the compressed air remains lower than 5 mg/m³. This system offers low oil consumption and a longer lifetime of the coalescence air/oil separation filters.

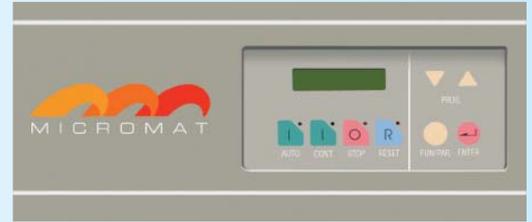
NO MAINTENANCE (THERE ARE NO BEARINGS)



Unlike other compressors, the absence of axial thrust in the Mattei vane compressors eliminates the need for rotating bearings. This allows Mattei compressors to enjoy very long and inexpensive maintenance intervals.

EFFICIENCY - QUALITY

MICROMAT: AN ELECTRONIC SYSTEM TO INCREASE THE EFFICIENCY AND PRODUCTIVITY OF MATTEI COMPRESSORS



Micromat is a control and management system installed on Mattei's 3000 Series.

FEATURES

Micromat allows to monitor all the centre's operating parameters including maintenance operations and enables to optimise performances with the possibility to customise a working programme. It is furthermore possible to know the exact percentage of effective working hours in relation to the total hours; convert temperature and pressure parameters into the imperial system; control the power failures; programme the start and stop of the compressor for each day of the week.

Micromat is user friendly and is made up of an ergonomic button panel and LCD display. It can be connected to a PC for the remote control of different air centres working in parallel.

PROGRAMMING

There are two levels of programming:

Basic - to best adapt the compressor performance to the customer's needs;

Advanced - with access code for more complex controls on operating functions.

RELIABILITY

Micromat hardware has been specifically designed for industrial use and has been tested in the worst operating conditions.



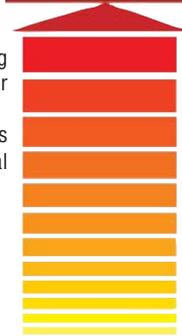
MAINTENANCE SERVICE AND SPARE PARTS

Maintenance operations only include changing the oil at predetermined intervals, cleaning or replacing the air filter and cleaning the radiator. The network of authorised Mattei service centres guarantees quick interventions and original spares.

MAINTENANCE MATTEI



MAINTENANCE OTHERS



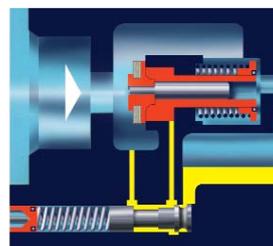
guarantees air temperatures no above room temperature.

DIRECT COUPLING

A flexible joint between the motor and the compressor ensures perfect alignment, silent running, slow speed (just 1500 rpm), no power loss and no maintenance.



AUTOMATIC FLOW CONTROL



The special proportioning and modulating intake valve fitted to Mattei compressors allows the compressor to work without a receiver: when the maximum required pressure is reached, the intake valve closes to reduce the quantity of intake air, thus keeping pressure constant. As the line pressure reduces, the valve automatically opens to keep pressure constant.

TECHNICAL FEATURES

50 Hz L = 8 bar H = 10 bar -
 60 Hz LX = 8 bar HX = 10 bar

Model ERC	Rated motor power kW	Free Air Delivery* m³/min				Sound pressure level ** dB(A)	
		L	H	LX	HX	L / H	LX / HX
3055	55	8,5	7,5	9	-	90	92
3075	75	11,5	10	12	9,7	90	92

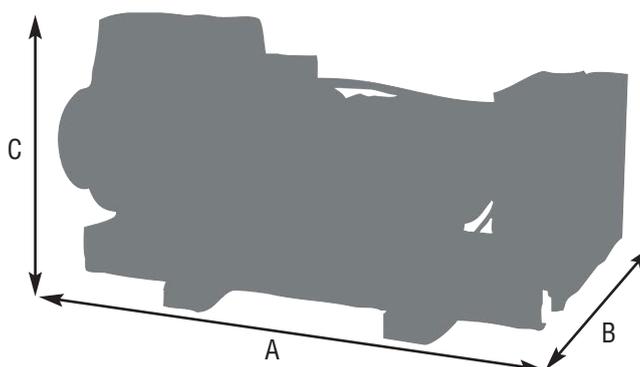
Working pressures: 7,5 bar for 8 bar version - 9,5 bar for 10 bar version

(*) Free air delivery as per ISO 1217: 1996 annex "C"

(**) Sound pressure level as per PN8NTC2.3; average value measured from a distance of 1 m

DIMENSIONS (mm) - WEIGHTS (kg)

ERC	A mm	B mm	C mm	Weights kg
3055	2320	920	1220	925
3075	2370	920	1220	1000



Ing. Enea Mattei SpA reserves the right to change the data contained in this catalogue at any moment and without notice.

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