



2000

ERC Series



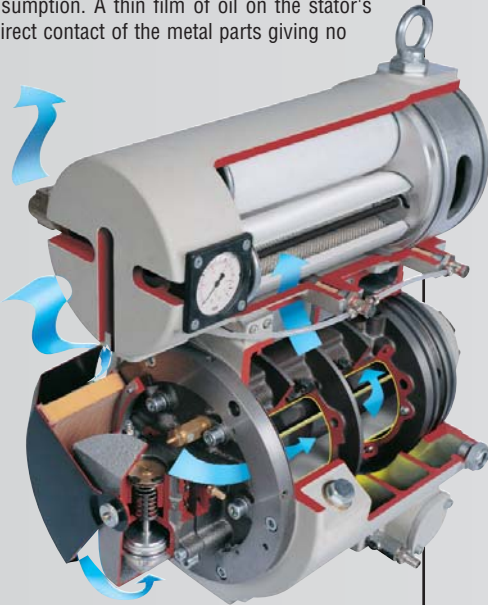
PERFORMANCE - EF

The ERC COMPACT compressors of the 2000 series, with installed power from 30 to 55 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.

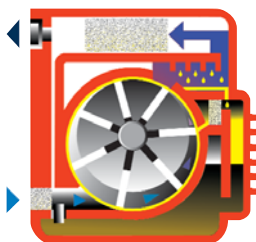
Lubrication and cooling are guaranteed by an efficient injection system which allows perfect hold and a lower lubricant consumption. A thin film of oil on the stator's wall avoids direct contact of the metal parts giving no wear.



SERVICE AND SPARE PARTS

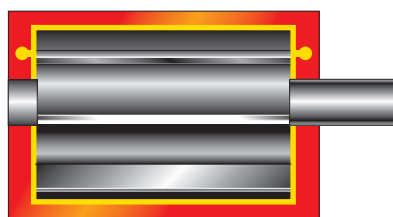
The network of authorised Mattei service centres guarantees quick interventions and original spares.

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 3 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)

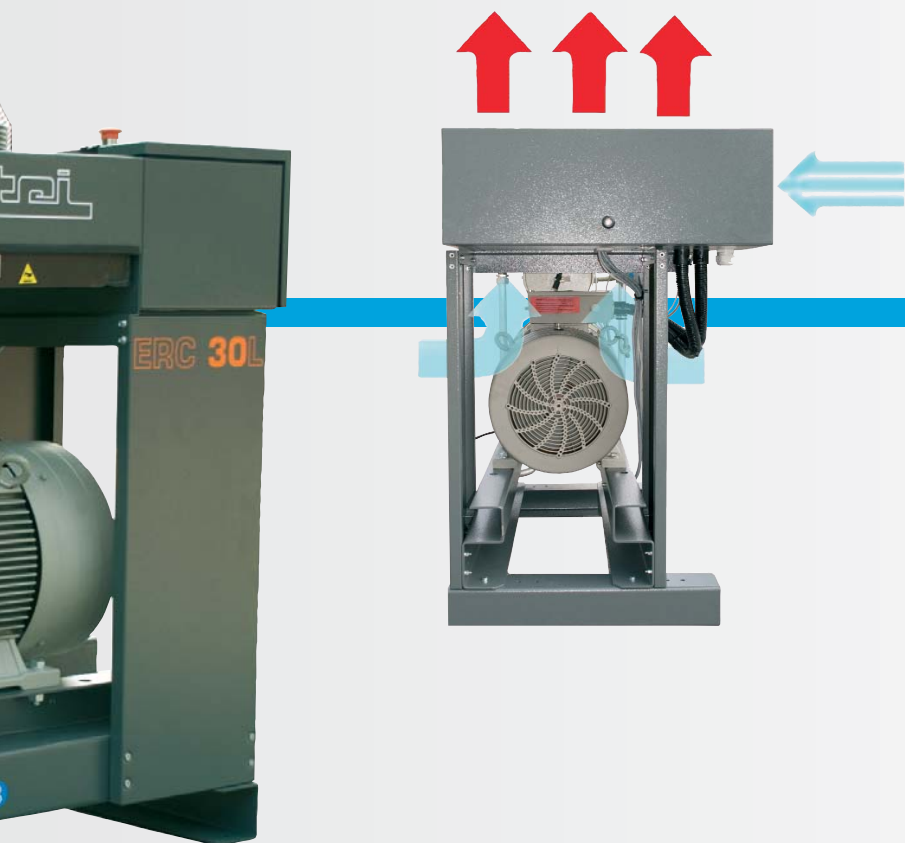


Unlike other compressors, the absence of axial thrust in the Mattei vane compressors eliminates the need for rotating bearings. This allows Mattei compressors to enjoy very long and inexpensive maintenance intervals.

EFFICIENCY - QUALITY

AIR COOLING

The coolers guarantees air temperatures no higher than 11 °K above room temperature.



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.

MAESTRO^{XS}: AN ELECTRONIC SYSTEM TO INCREASE THE EFFICIENCY AND PRODUCTIVITY OF MATTEI COMPRESSORS



FEATURES

The ERC 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.

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

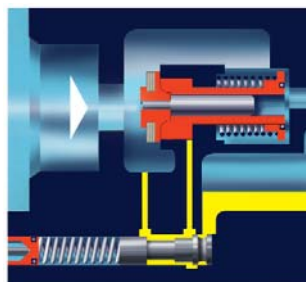
Maestro^{XS} hardware has been specifically designed for industrial use and has been tested in the worst operating conditions.

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 HH = 13 bar - 60 Hz LX = 8 bar HX = 10 bar HHX = 13 bar

Model ERC	Rated motor power kW	Free Air Delivery* m ³ /min						Sound pressure level ** dB(A)	
		L	H	HH	LX	HX	HHX	L / H / HH	LX / HX / HHX
30	30	5,62	4,67	3,67	6	5,7	4,9	84	86
37	37	6,8	5,65	4,8	7,4	6,9	5,85	84	86
45	45	8,28	7	5,85	9,9	8,7	7,2	84	86
55	55	-	8,9	7,1	-	-	-	84	-

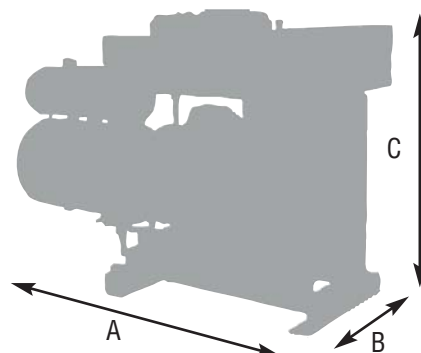
Working pressures: 7,5 bar for 8 bar version - 9,5 bar for 10 bar version - 12,5 bar for 13 bar version

(*) 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	Weight kg
30	1710	750	1290	600
37	1710	750	1290	700
45	1710	750	1290	730
55	1710	750	1290	740



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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