mattei®
BEST SOLUTIONS IN COMPRESSED AIR

400 SERIES

ROTARY VANE ELECTRIC COMPRESSORS

DESIGNED FOR CRAFT COMPANIES AND SMALL AND MIDDLE FIRMS

LOW ENERGY CONSUMPTION

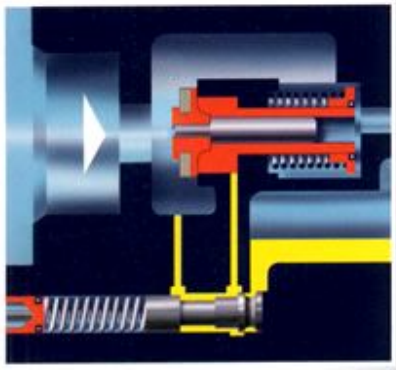
Thanks to the thoroughness these compressors were designed with, the energy consumption of air delivery per m³/min is among the lowest of their category. The ERS' versions regulating system includes modulation, shutdown and automatic start-up with pressure switch, which allows an economic operation of the system.

LOW MAINTENANCE COSTS

Maintenance operations only include changing the oil at pre-determined intervals, cleaning the radiator. The separator filter can be substituted even every 10,000 working hours, with significant savings.

AUTOMATIC CONTROL OF AIR DELIVERY

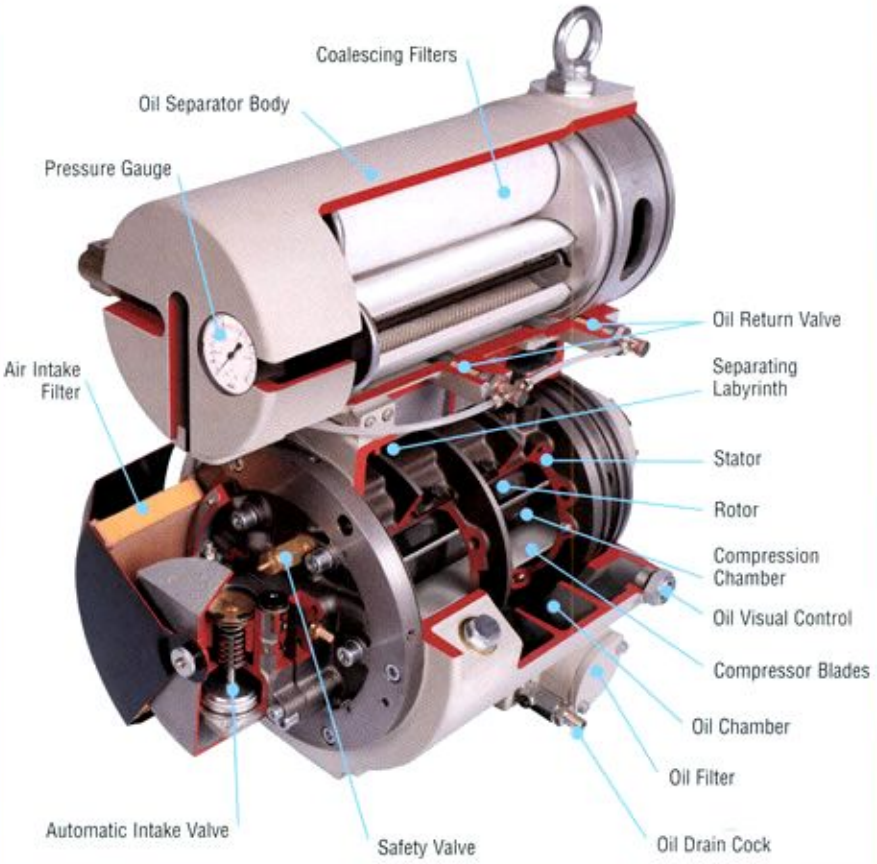
Once sucked, the air is sucked passes through a valve that regulates the volume of air getting into the compressor.
This valve is activated automatically by the inside pressure.
Thus, the compressor supplies the required air at constant pressure.
This means that the compressor can work even without an air receiver (ER version).



DIRECT COUPLING - 1500 rpm

This is obtained with a flexible coupling between motor and compressor without any need for belts. It is without gears or roller bearings needing maintenance.

MATTEI INTEGRATED COMPRESSOR



A SIMPLE AND RELIABLE TECHNOLOGY

The air is sucked by means of a filter and passes through a modulating proportional valve thata regulates the air delivery according to the demand. This valve automatically maintains the working pressure at constant levels. Therefore, the air enters the compression chambers or vanes that the stator, the rotor, the vanes and the covers have formed. This rotor is installed eccentrically to the stator and is equipped with longitudinal grooves in which the blades slide. It is the centrifugal force that pushes the blades against the statorÂfs wall. An efficient oil injection system guarantees a perfect holding among the moving parts, cooling and lubrication. An oil film on the statorÂfs inside surface prevents the moving parts from wearing by avoiding a direct contact with the blades. Air compression is triggered by the volume reduction of the vanes in the stator during rotation. By passing through mechanical and coalescing separation stages, the

CONTROL PANEL

The control panel is simple and practical and includes a hour counter a light start button and an emergency button, a security automatic stop for motor overload and even a thermostat for compressor high temperature.

TECHNICAL FEATURES

Basic Versions

ER 404 - ER 405

Model		ER 404	ER 405
Working Pressure	bar	10	
Free Air Delivery*	m³/min	0,53	0,75
Electric Supply	V-n° phases-Hz	400 / 3 / 50	
Electric Motor	kW	4	5,5
Electric Motor Protection - Isolation		IP 55 - F	
Maximum Oil Carry-over	p.p.m.	<3	
Oil System Capacity	l	~ 2	
Control System		Modulation	
Nominal Motor Speed	rpm	~ 1500	
Sound Pressure Level	db (A)**	67	67

* 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

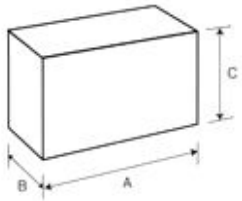
Versions with Receiver

ERS 404 - ERS 405 - AS 404 - AS 405

Model		ERS 404	AS 404	ERS 405	AS 405
Working Pressure	bar	10			
Free Air Delivery*	m³/min	0.53		0,75	
Electric Supply	V-n° fasi-Hz	400 / 3 / 50			
Electric Motor	kW	4		5,5	
Electric Motor Protection - Isolation		IP 55 - F			
Maximum Oil Carry-over	p.p.m.	<3			
Oil System Capacity	l	~ 2			
Control System		auto-stop / modulazione			
Nominal Motor Speed	rpm	~ 1500			
Sound Pressure Level	db (A)**	68	65	68	67
Air Receiver Capacity	l	200			

* 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 AND WEIGHTS



Model		ER 404	ERS 404	AS 404	ER 405	ERS 405	AS 405
Lenght	A	820	1285		820	1285	
Width	B	442	543	620	442	543	620
Height	C	458	1046	1143	458	1046	1143
Weight	kg	85	140	160	90	145	165

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Since 1994 Mattei operates with UNI EN ISO 9001 Quality System Certification