ERC SERIES
AIR COMPRESSORS

5 through 460 SCFM

mattei®
BEST SOLUTIONS IN COMPRESSED AIR

ERC SERIES OPEN-FRAME AIR COMPRESSORS

Best Choice for Value & Durability

WE BUILD A BETTER COMPRESSOR Enea Mattei believed there was a better and more energy efficient way to generate compressed air. So, he focused his engineering on the inherent advantages of rotary vane technology and engineered in:

a) superior reliability,
b) maximum mechanical & electrical efficiency
c) the most compressed air generated while consuming the least amount of electricity.

In effect, Mattei redefined the process of compressing air when he invented his first rotary vane air compressor over 50 years ago.

UNRIVALED PERFORMANCE & DURABILITY

Today, Mattei continues to leverage advancements in technology and materials to offer the best value in premium quality air compressors found anywhere on the planet.

Imagine "bearingless" Airends that last up to 100,000 hours (*2-3 times the life of rotary screws*) without needing an overhaul, unrivaled super quiet operation, and the most energy stingy designs in the industry.

It's a fact; Mattei is in a class of its own. Want to protect productivity, increase profitability, and lessen your carbon footprint?

Get your last air compressor first. Get a Mattei.

WHY MATTEI® IS YOUR BEST CHOICE

Mattei compressors are designed to give constant top performance 24 hours a day, every day of the year. Extremely rugged and reliable, ERC Series is designed for outstanding durability and value.

Rely on Mattei ERC Series for:

- Unaltered performance through time
- No wear of the compressor's moving mechanical parts
- System friendly demand adaptable controls
  - Automatic Load/No Load
  - Load matching Modulation
  - Automatic with Modulation
- Pulse-free air
- Compact design
- Low oil volume and consumption
- Direct coupled compressor and motor
- Slow 1,800 RPM rotational speed
- Low maintenance
- Quiet operation

ERC SERIES AIR COMPRESSORS

Simple. Quiet. Reliable.

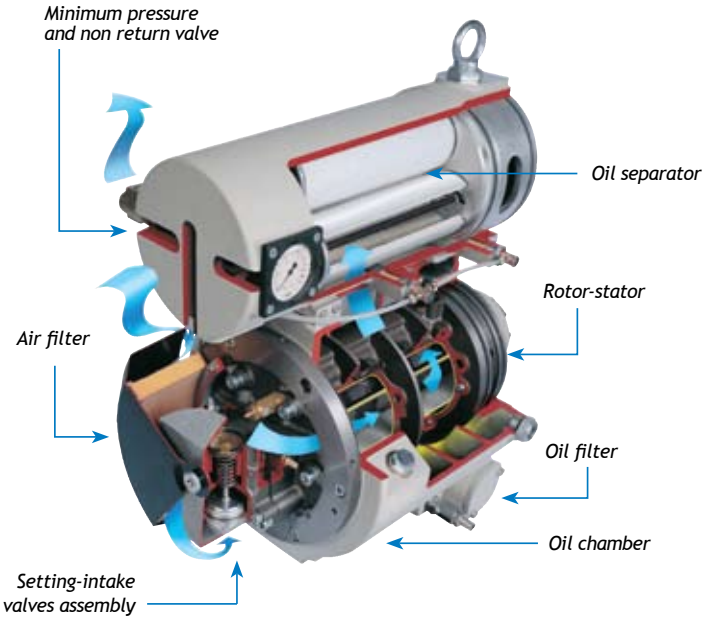
SIMPLY SUPERIOR ERC Series are our traditional open-frame air compressors designed for performance and value. Known for reliability, each features sleek in-line construction, simple controls, quiet dependable operation and low maintenance. MATTEI compressors are simply superior by design.

YOU GET WHAT YOU PAY FOR

It is not uncommon to get over 100,000 hours of service life out of our airends without a rebuild. MATTEI vane technology features zero-wear Meehanite™ cast iron blades that ride on a thin film of lubricant thus, preventing wear to the blade or stator wall. The heart of the unit is the rotor which is supported by two (2) white metal Babbitt bushings and spins at only 1,800 rpm.

ERC Series is also friendly to your wallet and the environment. Each vane unit holds very little lubricant (typically less than half that of a screw type compressor) which saves you a small fortune on oil changes and disposal costs. The oil filter is cleanable – yes, cleanable. The highly efficient mechanical air/oil separation chamber delivers high quality air to the air/oil separator filter thus, it sees very little lubricant and provides up to 10,000 hours of service, and low 1-3 ppm oil carryover.

Get your money's worth. Get a MATTEI.



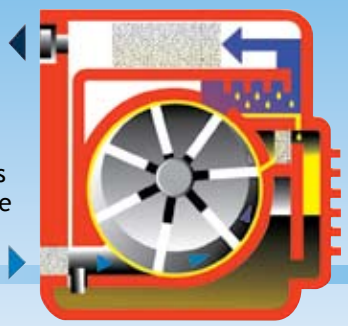
STACK THE DECK IN YOUR FAVOR

Inherently quiet and compact, MATTEI offers customers Stacked Systems™ that save you big on energy costs and uses half the floor space. Stacked Systems are an ideal alternative to VSD controlled compressors like our OPTIMA Series if your shop operates multiple shifts and/or has a variety of tools or equipment that runs intermittently causing you to experience large swings in air demand. System rated from 10 thru 40 HP, you can mix or match machines. Matched systems from two 5 HP units to 20 HP or, mix combinations such as 5/7.5 HP, 10/15 HP, 10/20 HP, 15/20 HP.

Energy saving Stacked Systems are your best solution for flexibility and saving energy.

HOW IT WORKS

Ambient air is drawn through a filter into the compression chamber consisting of a stator in which an eccentrically arranged rotor revolves at 1,800 rpm. An air intake valve automatically adjusts incoming air volume to match your control scheme. The rotor has longitudinal slots in which the vanes slide. Zero-wear vanes ride on a thin film of oil and are held against the stator by centrifugal force. The air is compressed through the contraction in volume of each chamber formed by the vanes, the rotor and the stator wall. Sealing, cooling and lubrication are ensured by the oil injected into the chamber.



HIGH QUALITY COMPRESSED AIR

Mattei compressors have an exclusive and efficient oil separating system which occurs in three stages: in the initial stage most of the oil is separated in a labyrinth in the compression chamber; the flow then enters the separator chamber where a mechanical separation takes place through speed reduction and flow deviation; the last phase occurs through the separator element. Only 0.02% of the initial oil arrives to this final stage; this is the reason for which the average life of Mattei's separator element is 10,000 operating hours. Most importantly, this separating system guarantees a maximum oil residue of 3 ppm in Mattei's compressed air.

TECHNICAL SPECIFICATIONS

BASE MOUNTED [4]

Model	Electric Motor Power HP	Electric Motor Power kW	Free Air Delivery[1] scfm	Rated Pressure psig	Voltage[2] AC	Sound Pressure Level[3] dB(A)	Air Outlet npt	Dimensions (inch)[4] L x W x H	Weight (net) lbs.
ERC 215(S)	2	1.5	5.1	150	230/460v/ 3ph/60hz	64	1/4"	30 x 16 x 16	137 (97)
ERC 222(S)	3	2	6.7	150		70			141 (101)
ERC 504L(S)	5	4	23	125	208-230/460, 575v/ 3ph/60hz	73	1/2"	41 x 17 x 26	400
ERC 505L(S)	7.5	5.5	33	125		73			410
ERC 507L	10	7.5	43	125		77	3/4"	52 x 21 x 32	460
ERC 511L	15	11	67	125	200, 230/460 575v/ 3ph/60hz	78			570
ERC 515L	20	15	75	125		78			620
ERC 1018L	25	18	105	125		81	1"	58 x 22 x 35	900
ERC 1022L	30	22	129	125		81			940
ERC 1030L	40	30	154	125		81	1"	62 x 24 x 39	1050
ERC 2037L	50	37	212	115		85	1-1/2"	78 x 33 x 48	1420
ERC 2045L	60	45	260	115		86			1420
EM 750L	75	55	335	115	230/460, 575v/ 3ph/60hz	92	2"	91 x 36 x 48	2480
EM 1000L	100	75	460	115		92	2"	94 x 36 x 48	2790

STACKED SYSTEM [5]

Model	Power HP (ea. total)	Power kW (ea. total)	Capacity[1] psig	Capacity[1] CFM (ea. total)	Voltage[2] AC	Sound Level[3] dB(A)	Air Outlet npt	Dim. LxWxH (in.)	Wt. lbs. (net)
SM 5(S)-5(S)	5/10	4/8	125	23/46	230 / 1ph / 60hz	73	(2) 1/2"		1050
SM 7.5(S)-7.5(S)	7.5/15	5.5/11	125	33/66	230 / 1ph / 60hz	73	(2) 1/2"	41 x 28 x 58	900
SM 10-10	10/20	7.5/15	125	43/86	208-230 / 460 / 575 / 3ph / 60hz	77	(2) 3/4"		950
SM 15-15	15/30	11/22	125	67/134	208-230 / 460 / 575 / 3ph / 60hz	78	(2) 3/4"	52 x 32 x 68	1020
SM 20-20	20/40	15/30	125	75/150	208-230 / 460 / 575 / 3ph / 60hz	78	(2) 3/4"		1250

Working Pressure 109 psig for 115 psig unit; 117 psig for 125 psig unit; 143 psig for 150 psig unit. Contact factory for higher pressures.
Single-Phase models standard with TEFC motors. Three-phase models: TEFC through 40 HP, 50-100 HP ODP (TEFC optional), all 575V TEFC. (Note: 575v only available TEFC)

[1] F.A.D. in accordance with ISO 1217:1996, annex "C" [2] 5 HP and 7.5 HP Models can be provided with 230v/1ph/60hz motors. Designated by "(S)" suffix. [3] According to PN8NTC2.3; value measured at 1 m distance ±3 [4] 5 HP thru 20 HP units can be mounted on 90 gallon air receiver. Dim adders: 5/7.5 HP, 12"L, 13"W, 25"H. 10/15/20 HP 7"L, 9"W, 25"H. Weight: add 300 lbs.
[5] Automatic lead/lag and alternation standard on Stacked Systems. Switchover can occur each time lead machine times out, or at 24 hour intervals.

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COMPANY
WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= ISO 9001 : 2001 =

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