

# SERIES ENERGY SAVING

ROTARY VANE COMPRESSORS

BLADE i  
OPTIMA  
MAXIMA



**100**  
ANNIVERSARY 1919-2019

# SERIES ENERGY SAVING

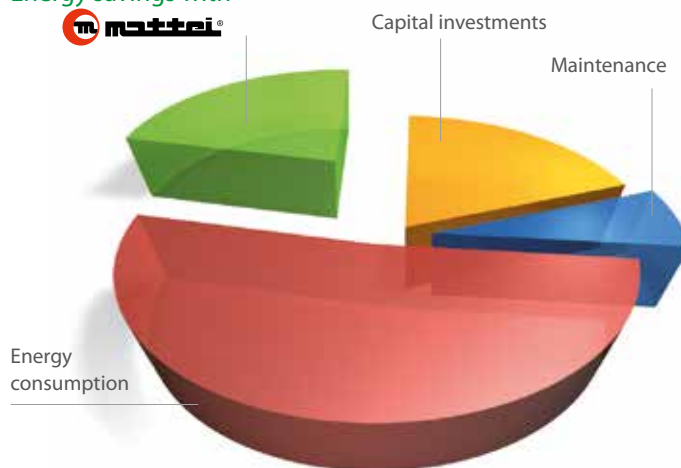


## A real saving opportunity

Compressed air is a reliable and widely used power source in a variety of industrial sectors, thanks to its safe and simple production. On the other hand the use of compressed air involves considerable energy costs, amounting to around 10% of the total industrial electrical energy consumption. The energy efficiency of compressed air production systems is therefore very important in order to reduce their operating costs.

Sizing the compressed air equipment appropriately, choosing the most suitable compressor according to the site's compressed air consumption profile, managing the compression process with advanced control and regulation, systems including appropriate air treatment and energy recovery, are only a few examples of the valuable services that Mattei is able to provide its customers, in order to achieve energy savings amounting to over 30%.

Energy savings with



## More efficient systems

Energy efficiency and subsequently the cost of compressed air, depend partly on the efficiency of the compressors used in the production process and their optimal configuration. It also depends on other key factors such as:

- Air leakage reduction
- Heat recovery
- Overall system design
- Improved air treatment



## Simply different The compressor that makes a difference

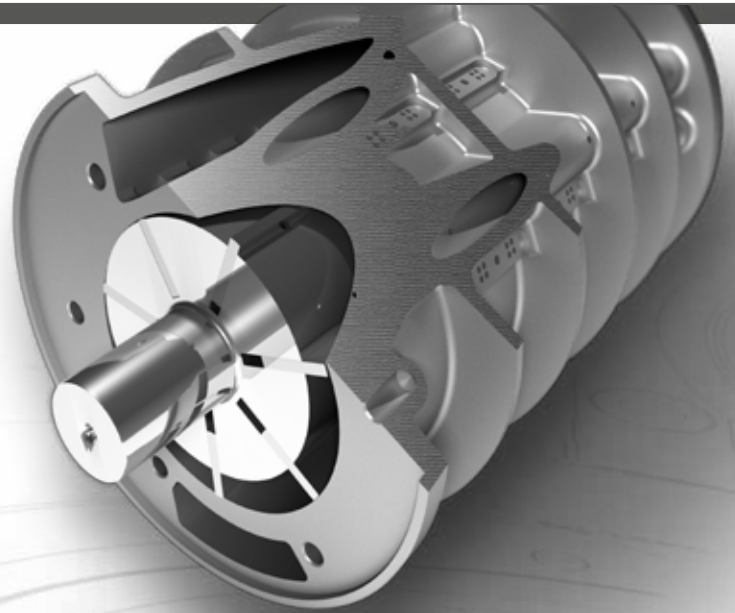
### MATTEI'S COMPRESSORS

Mattei's rotary vane air compressors are the result of continuous innovation and advanced design capabilities. The low rotational speed of the compressor unit found only in vane technology, the high volumetric efficiency and the complete absence of roller or thrust bearings, result in energy savings of **over 15%** compared to other rotary compressors.

### EFFICIENCY 1:1

All Mattei's compressors have a 1:1 ratio between the electric motor speed and that of the airend. This means greater energy efficiency and higher performances.

Compared to other technologies, rotary vane compressors guarantee a superior internal air seal, together with a consistent and long lasting performance.



### SAFETY / RELIABILITY

The integrated design, direct coupling, low rotational speed and the limited number of moving parts ensure Mattei's rotary vane air compressors remain safer, more durable and therefore more reliable over time.



Even more  
**reliable**



Even more  
**efficient**



**Rotary vane  
technology**



**Direct  
coupling**

### LOW OPERATING COSTS: LOW MAINTENANCE

Mattei's rotary vane compressors are designed to achieve 100,000 hours operating life without the need to replace any blades or other metal parts. The long operating life of a Mattei compressor is assured by high quality machining which is the essence of rotary vane air compressors.

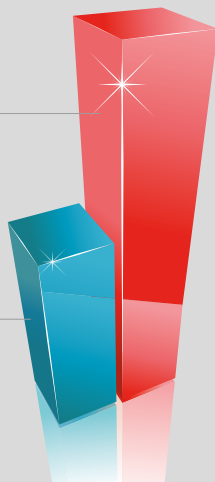
### SIMPLICITY

Mattei's rotary vane air compressors are quiet and can be located almost anywhere. They are quickly installed and take up a limited amount of space.

Their accessible design makes maintenance operations simple and straightforward.

OTHER COMPRESSORS  
MAINTENANCE

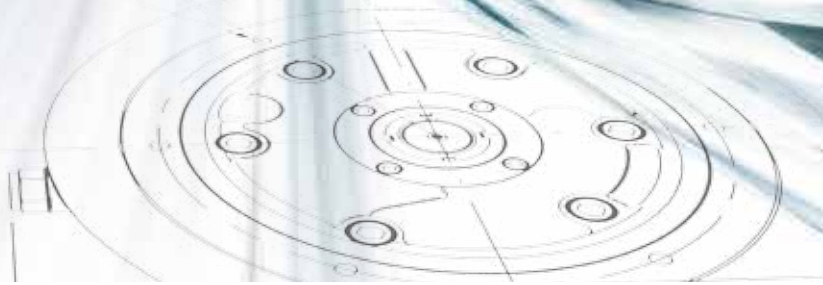
MATTEI'S COMPRESSORS  
MAINTENANCE



### QUALITY OF THE AIR

All Mattei's compressors are fitted with a generously sized filtering system, which guarantees quality compressed air suitable for any use. Mattei's very efficient, multi-stage oil separation system produces an exceptionally low lubricant carry-over.





## Evaluating compressed air

When selecting compressors it is very important to know the exact air needs of the user, together with the depreciation period and all other variables that will help to determine the option with the lowest overall cost of ownership.

Measuring the compressed air and energy consumption are essential to find out if changes in the equipment or servicing regime could be cost effective. There is no best compressor in absolute terms, but the best combination between the specific compressed air need and the compressor can always be found.



## The best solution to save energy

To ensure maximum operating economy, BLADE i and OPTIMA compressors can adapt their operation to the load profile required by the network.

The inverter adjusts the motor's rotational speed, adapting the air delivered by the compressor to the real demand. BLADE i and OPTIMA can deliver energy savings of up to 35%.

STANDARD



- Installation
- Maintenance
- Investment
- Energy consumption

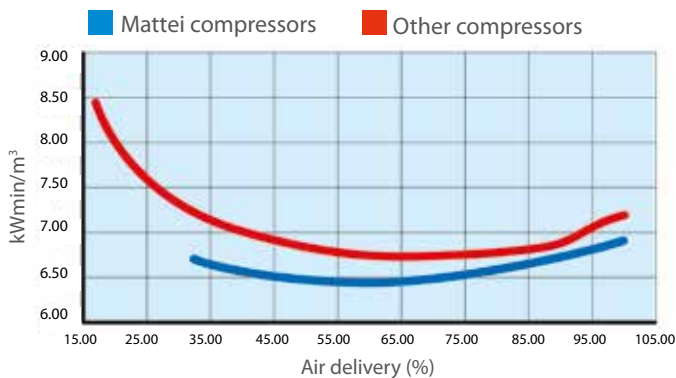
OPTIMA



- Savings on energy consumption

## Variable speed principle

Optima operates within a range of pre-set maximum and minimum pressures. When reaching the maximum pressure, at the minimum rotational speed, the intake valve shuts and the compressor is set "off load" and decompressed to 1.5 bar to reduce the energy absorption further. When the line pressure lowers to the minimum pre-set value it is reset to the "on load" condition and starts delivering air instantly, adapting the rotational speed to the air demand.



## Maestro<sup>XS</sup>

All OPTIMA compressors are, as standard, fitted with a Maestro<sup>XS</sup> electronic controller. Thanks to this device the compressors are set in "PID" operating mode. OPTIMA adjusts its operation to the load profile required by the system. The inverter modifies the motor rotational speed, adjusting the air flow supplied by the compressor to the actual requirement of the system. The controller uses the average of the set up values as the target pressure and strives to keep the pressure at this value, by increasing or reducing the rotational speed.



## Maestro<sup>XB</sup>

Blade 8-12 i and Blade 15-22 i are equipped with Maestro<sup>XB</sup> multi-functional microprocessor control devices, which in PID mode can modify the operation of the compressor, meeting the specific needs of the air network to which it is connected. It has different programming levels and special options for controlling and analysing the operation and faults.



## COMPRESSOR AND DRYER: ALL-IN-ONE

Blade i and Optima models can be equipped with air-cooled, direct-expansion refrigeration dryers containing environmentally friendly refrigerant gas. The combination of a Mattei rotary vane air compressor and an integrated dryer is the ideal solution for a complete and compact system.



## DURABLE AND QUIET

Mattei compressors are epoxy powder coated and corrosion and scratch resistant. In addition they are lined internally with a thick layer of high-quality soundproof material and equipped with a high efficiency cabinet pre-filter. This filtering device prevents the radiator and main air filter from premature clogging caused by impurities in the intake air, thus providing additional cost savings.

## SIMPLE AND ACCESSIBLE MAINTENANCE

Large hinged doors and easily removable panels allow complete and easy accessibility for all maintenance and intervention operations. The compressor requires no special foundations and its base has suitable lifting points for ease of installation.



## A HIGH EFFICIENCY OIL SEPARATION

The separation of the oil from air is carried out in several stages and allows an exceptionally low oil carryover. After the compression cycle the air-oil mixture reaches the separator tank, most of the lubricant is collected here due to the change in air speed and the cyclonic action as it enters the tank. The air with the remaining oil residue is then filtered in the coalescing separator. The complete system ensures that the residual oil content is less than 3 mg/m³ of air, the over-sized separator element and the quality of the materials used guarantee longer working hours.

# maxima

## maxima XTREME

### maxima simply superior

One of the primary aims of competing in the global economy is to minimise production costs. Industry leaders expect maximum value and profitable returns when investing in new machinery that will improve their manufacturing process and lower their costs. As compressed air production tends to be the single largest consumer of electricity in a given manufacturing plant, saving energy and reducing maintenance costs offers real opportunities to improve profitability and thus, enhance the competitive advantage for the company.

Designed to save energy and protect the environment, the MAXIMA rotary vane air compressor range has been engineered by Mattei to meet the requirements of manufacturers that use large, constant volumes of compressed air for long periods of time. Maxima is best suited for high air demand applications where the production of compressed air has a virtually constant base load throughout the day.



The best energy efficiency

Simple and low-cost maintenance

Compression unit designed for over 100,000 working hours

Soft - Start starter

Airend speed: only 1,000 rpm

IE3 Motor

### Maxima Xtreme



Mattei continually invests in research and development to ensure its products remain at the very forefront of technology and performance. Maxima Xtreme is another positive result of this investment.

- FLUID DYNAMIC OPTIMISATION;
- NEW SPRAYED OIL INJECTION SYSTEM;
- NEW HIGH PERFORMANCE LUBRICANT.

### Constant pressure



Thanks to its special modulating proportional intake valve, which enables constant pressure air supply, Mattei's compressors with modulation can also work without a tank. Through this operating mode, the air flow automatically adjusts to the system requirements.

## MAESTRO<sup>XS</sup>

The Maxima series is equipped with the exclusive state-of-the-art computerised controller, Maestro<sup>XS</sup>. This system automatically controls, monitors and programmes the operation of the compressor, and can be connected to a PC for remote control. If connected to other compressed air packages equipped with Maestro<sup>XS</sup>, the unit can become master of a compressed air plant, thus saving on the installation of an additional controller. Maestro<sup>XS</sup> can be interfaced via web or cellular technology to provide remote service monitoring.



## The astounding result of continuous R&D and advanced technology

The name of this compressor was selected to evoke the essence of the incredible performance of this machine. Maxima lives up to its name by delivering maximum performance from every kW of input energy. Mattei's ethos of continuous investment in research and development of its rotary vane technology has led to the excellent specific energy efficiency of the Maxima range.

**As low as 5.2 kWmin/m<sup>3</sup>**

## Maxima 110 – 160

### TWIN COMPRESSION SYSTEM DOUBLE EFFICIENCY

To achieve maximum performance, Maxima 110 and Maxima 160 are equipped with twin compression units that work in parallel at the same speed as all Maxima compressors – an incredibly low 1000 rpm.

### COMPRESSOR AND DRYER: ALL-IN-ONE

The plus version includes the integrated installation of a direct expansion refrigeration dryer, which is air cooled and filled with environmentally friendly gas. This solution provides the advantages of:

- reduction in installation costs
- reduction in space requirement

### LOAD ADPTABLE COOLING

Maxima is equipped with a variable speed electric fan, sensitive to changes in temperature and able to maintain a constant internal temperature by increasing or decreasing the flow of cooling air as required. At normal operating temperatures Maxima cools the oil, air and system components at the lower fan speed, thus providing considerable energy savings. When operating conditions increase the heat load, the fan speed automatically increases to provide the additional cooling required.

### HEAT RECOVERY KIT\*

The heat recovery system is integrated directly into the compressor cooling system. Before reaching the oil cooler, hot oil passes through an oil-water heat exchanger controlled by a thermostatic valve to provide water pre-heating to save energy and money in industrial or sanitary process applications.



### CONDENSATE SEPARATOR AND DRAIN KIT\*

The condensate separator uses cyclonic action and gravity to remove liquid condensate out of the airstream.

The condensate separator and drain kit:

- maximises efficiency & reliability of dryers and filters
- protects downstream processes and equipment

\* Optional accessories



# CONTROLLERS ENERGY SAVING

## MAESTRO XS – XB

### TO HAVE EVERYTHING UNDER CONTROL

With a view to energy saving, the communication inside a compressor room plays a decisive role.

It is absolutely essential to manage, control and immediately intervene in the operation of the system in order to prevent waste and unnecessary energy consumption.



## Microprocessor Control System

Maestro<sup>XB</sup> and Maestro<sup>XS</sup> are Mattei programmable compressor control devices, able to adapt the operation of the compressor to meet the specific needs of the air network to which it is connected. They are equipped with numerous programming levels providing a multitude of control, operational analysis and diagnostic evaluation. More advanced levels of programming and analysis are protected by digital codes to prevent unintentional manipulation. Thanks to an internal memory function, Maestro<sup>XS</sup> and Maestro<sup>XB</sup> can maintain source data on system set-up and operation, even in the absence of a power supply.





## CONCERTO: Complete control and absolute Flexibility

Numerous compressor stops and starts, energy wastage and wide variations in the compressor operation represent common problems in many compressed air systems.

Concerto is Mattei's state-of-the-art compressed air management system, designed to satisfy any requirement of a compressed air user, regardless of the type of compressor installed. By the use of customisable functions the device allows the simultaneous command and control of **up to 16 compressors**, maintains a tight energy-saving pressure dead-band, limiting the idle running times and optimising the customer's choice. Concerto enables **energy savings of over 35%**.

### IMMEDIATE SAVING

Regardless of the compressors combination and model, Concerto always selects the most economical configuration, maximising the plant efficiency.

Concerto controller extends the life of your compressors, guaranteeing the smallest number of motor start ups, and eliminating idle running times almost completely.

### FUNCTIONALITIES

**Concerto** requires only a few configuration parameters, to allow the combination of differently performing compressors to synchronise their compressed air production with the consumption demand.

A clear display facilitates the system programming operations, making them easy and intuitive.

### CONTROL VIA PC



The main parameters, failure signals, maintenance intervals and energy consumptions can be directly displayed on a PC via a normal web server. This way the equipment can always be easily monitored and controlled in order to minimise unplanned events.

### GLOBAL MANAGEMENT

Dryers, filters and condensate treatment accessories can be directly connected to the system via digital inputs. In the same way analogue output sensors can be connected, in order to monitor the entire compressed air system.

Due to this Concerto provides an extremely wide range of information regarding the plant management, which is also viewable via web server.

Concerto also manages and controls variable speed compressors, fitted with an inverter, ensuring that they remain within their maximum efficiency range.

## QUARTETTO

When a production process requires variable amounts of compressed air or it is necessary to avoid any machine downtime, a controller optimises the compressed air system management.

**Quartetto**, obtained through a programmable controller, can control operation of more compressors, **up to max. 4 units**, provided these are arranged with a remote start-stop control. It is not essential to drive exclusively Mattei compressors.

Quartetto can meet the line air demand and the working load for each compressor in the most efficient way and reducing the energy absorption.



### MANAGEMENT MODES

- *Balance hours*: for installation consisting of compressors of the same power where you want to use the machines alternately and obtain even wear
- *Priority*: for installation where the installer / end user decides the priority of the compressor (ie the sequence of action) by assigning them a number
- *Smart*: operating principle to obtain the best performance by optimizing the power consumption (saving) for a plant always reactive to any changes in the pressure

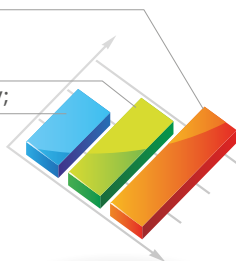
# SERIES ENERGY SAVING

## Energy recovery from compressed air

In a lubricated and air-cooled compressor, about 80% of its absorbed power is wasted as heat in the oil. The heat absorbed by the oil during the air compression process is transferred to the air flow, that goes through the cooler and is dispersed to the atmosphere.

The mechanical energy used for compression is wasted as follows:

- about 80% for oil cooling;
- about 10-12% transferred to the compressed air as heat;
- about 2-3% in compressed air as energy;
- the rest due to heat radiation.



Mattei offers for its compressors a heat recovery system that allows water to be heated for industrial process or sanitary use.



The "Heat Recovery" kit is totally integrated into the oil cooling circuit, making the unit independent from the oil temperature control and protected from any possible malfunctions, such as water flow reduction and overheating.

## How much can you save by recovering heat?

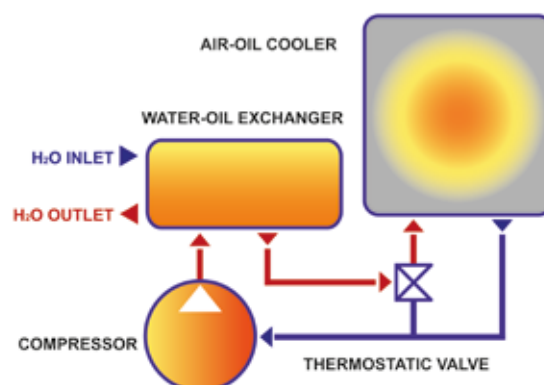
The possibility to use the energy recovered as hot water during an entire year depends on the use you make of it. Up to 80% of the recovered heat can be used in your industrial building to produce hot sanitary water or for space heating. It is even possible to recover up to 100% of the thermal energy if there is an industrial process that requires heat.



## The flow

Instead of cooling down in the radiator, the hot oil coming from the compressor transfers its heat to water through a plate heat exchanger.

If the water cooling is insufficient the oil will also pass through the radiator, releasing part of the heat to the environment.





## Recoverable thermal power

Model	Rated power kW	Recoverable thermal power	
		kW	Kcal/h
MAXIMA 30	30	28	24,080
MAXIMA 55	55	48	41,280
MAXIMA 75	75	66.4	57,104
MAXIMA XTREME 55	55	47.4	40,740
MAXIMA XTREME 75	75	63.7	54,800
MAXIMA 110	110	105.6	90,816
MAXIMA 160	160	140	120,400

Recoverable powers at full-load and working pressure.

1 kW = 860 Kcal



## Example of saving – natural gas

Calculation of potential saving with a compressor, according to the following conditions:

- Absorbed power at the shaft = 110 kW
- Yearly working hours = 2,500
- Cost of natural gas per m<sup>3</sup> = € 0.50
- Specific heat of natural gas = 8,250 Kcal/m<sup>3</sup>

Recoverable power from oil = 88 kW (80% of 110) = 75,680 Kcal/h

Equivalent saving in natural gas m<sup>3</sup> = 9.17 m<sup>3</sup>/h (75,680 / 8,250)

Equivalent saving of natural gas in Euros/h = € 4,60/h (9.17 x 0.50)

Yearly saving of natural gas in Euros = € 11500 (4,60 x 2500)



# SERIES ENERGY SAVING

## Always caring about our customers' requirements

### WORLDWIDE CONSULTANCY AND ASSISTANCE

Mattei operates worldwide with its sales and assistance network, providing a wide service range.

By purchasing a Mattei compressor you can rely on a qualified after-sales service, able to answer any request for assistance in very short time scales.



## Mattei original spare parts and lubricants

Mattei Original Spare Parts and Mattei V-Life lubricants are made to very high design standards and conform to precise technical specifications. Only Mattei original spare parts allow you to be sure of maintaining over time the same levels of performance, reliability and safety of your Mattei product.

- Mattei Original Spare Parts are indispensable for the efficiency of your compressed air equipment;
- Parts are always available in stock;
- Quality tested and conforming to manufacturer specifications;
- Suitable for Mattei's recommended maintenance intervals.



## MIEM: Mattei Intelligent Energy Management

The cost to produce a fixed quantity of compressed air greatly depends on the efficiency of the compression system. To obtain potentially significant energy savings it is important to identify the minimum working pressure and demand profile required for a plant's compressed air supply. The MIEM system allows Mattei to check the suitability of a currently installed compressed air plant and to verify any possible opportunities to improve its efficiency. Thanks to specifically developed software, Mattei's technicians are able to evaluate the customer's current air consumption profile and to estimate the relative energy consumption. In addition the MIEM analysis allows Mattei to simulate the optimum energy solution via a computer, often providing potential savings of 40%.



## Total quality management

Mattei considers quality as an essential value that represents the key factor to develop a positive relationship between the culture and performance of one's company. Innovative management software, developed solely for Mattei and technologically advanced manufacturing equipment, such as robotic machining centres and high precision machine tools, are at the heart of the advanced technical and quality levels of Mattei's products.



## 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.



### 3D QUALITY CONTROL

The quality check of manufacturing tolerances occurs constantly via three dimensional measurement machines.

This ensures the compliance of our products with the highest quality standards.

### COMPREHENSIVE TESTS

Before leaving our factory any Mattei compressor has already undergone various extensive and in-depth testing procedures, during which it has been checked and tested in different operating conditions. All the electric, mechanical and performance information are recorded via a wireless data detection system.









### HIGH TECHNOLOGY MANUFACTURING MACHINERY

The manufacturing of compression units and blades is made through modern robotic machining centres. The parts assembly is carried out by specialised staff and in accordance with strictly controlled operating procedures, specified by Mattei's quality management.





400V-460V/50Hz-60Hz/3

 MODEL	 MAX. WORKING PRESSURE		 F.A.D.		 SOUND PRESSURE LEVEL	 MOTOR		 AIR RECEIVER	 DIMENSIONS LxWxH						 WEIGHT	
	bar	psig	m³/min	scfm	db(A)	kW	hp	l	mm	ins	mm	ins	mm	ins	kg	lbs
BLADE 8 i	7 ÷ 10	100 ÷ 150	0,76 ÷ 1,20	27 ÷ 42	66	7,5	10	-	1180	46,5	760	29,9	990	39	273	602
BLADE 12 i	7 ÷ 10	100 ÷ 150	1,06 ÷ 1,68	37 ÷ 59	66	11	15	-	1180	46,5	760	29,9	990	39	311	686
BLADE S 8 i	7 ÷ 10	100 ÷ 150	0,76 ÷ 1,20	27 ÷ 42	66	7,5	10	270	1560	61,4	760	29,9	1610	63,4	361	796
BLADE S 12 i	7 ÷ 10	100 ÷ 150	1,06 ÷ 1,68	37 ÷ 59	66	11	15	270	1570	61,8	760	29,9	1610	63,4	399	880
BLADE E 8 i	7 ÷ 10	100 ÷ 150	0,76 ÷ 1,20	27 ÷ 42	66	7,5	10	-	1410	55,5	790	31,1	990	39	306	675
BLADE E 12 i	7 ÷ 10	100 ÷ 150	1,06 ÷ 1,68	37 ÷ 59	66	11	15	-	1410	55,5	810	31,9	990	39	349	769
BLADE SE 8 i	7 ÷ 10	100 ÷ 150	0,76 ÷ 1,20	27 ÷ 42	66	7,5	10	270	1490	58,7	790	31,1	1610	63,4	388	855
BLADE SE 12 i	7 ÷ 10	100 ÷ 150	1,06 ÷ 1,68	37 ÷ 59	66	11	15	270	1490	58,7	810	31,9	1610	63,4	431	950
BLADE 15 i (*)	7 ÷ 10	100 ÷ 150	1,68 ÷ 2,65	59 ÷ 94	66	15	20	-	1440	56,7	770	30,3	1330	52,4	575	1265
BLADE 18 i (*)	7 ÷ 10	100 ÷ 150	2,01 ÷ 3,18	71 ÷ 112	66	18,5	25	-	1440	56,7	770	30,3	1330	52,4	590	1298
BLADE 22 i (*)	7 ÷ 10	100 ÷ 150	2,27 ÷ 3,59	80 ÷ 127	66	22	30	-	1440	56,7	770	30,3	1330	52,4	600	1320
BLADE 15 i PLUS (**)	7 ÷ 10	100 ÷ 150	1,68 ÷ 2,65	59 ÷ 94	66	15	20	-	1460	57,5	770	30,3	1330	52,4	635	1397
BLADE 18 i PLUS (**)	7 ÷ 10	100 ÷ 150	2,01 ÷ 3,18	71 ÷ 112	66	18,5	25	-	1460	57,5	770	30,3	1330	52,4	650	1430
BLADE 22 i PLUS (**)	7 ÷ 10	100 ÷ 150	2,27 ÷ 3,59	80 ÷ 127	66	22	30	-	1460	57,5	770	30,3	1330	52,4	660	1452
OPTIMA 30 (**)	7 ÷ 10	100 ÷ 150	2,52 ÷ 5,34	89 ÷ 189	66	30	40	-	1830	72	960	38	1670	66	820	1804
OPTIMA 37 (**)	7 ÷ 10	100 ÷ 150	3,28 ÷ 6,48	116 ÷ 229	66	37	50	-	1830	72	960	38	1670	66	880	1936
OPTIMA 45 (**)	7 ÷ 10	100 ÷ 150	3,77 ÷ 8,00	133 ÷ 283	66	45	60	-	1830	72	960	38	1670	66	940	2068
OPTIMA 60 (**)	7 ÷ 10	100 ÷ 150	5,46 ÷ 10,84	193 ÷ 383	68	55	75	-	2420	95	1245	49	1890	74	1750	3850
OPTIMA 75 (**)	7 ÷ 10	100 ÷ 150	6,96 ÷ 13,72	246 ÷ 485	68	75	100	-	2420	95	1245	49	1890	74	1850	4070
OPTIMA 90 (**)	7 ÷ 10	100 ÷ 150	8,29 ÷ 16,47	293 ÷ 582	68	90	125	-	2420	95	1245	49	1890	74	1970	4334
OPTIMA 110 (**)	7 ÷ 10	100 ÷ 150	10,19 ÷ 20,06	360 ÷ 708	69	110	150	-	2350	93	1440	57	1980	78	2570	5654
OPTIMA 132 (**)	7 ÷ 10	100 ÷ 150	11,94 ÷ 23,52	422 ÷ 830	69	132	175	-	2350	93	1440	57	1980	78	2700	5953
OPTIMA 200 (**)	7 ÷ 10	100 ÷ 150	18,19 ÷ 35,51	642 ÷ 1254	75	200	250	-	2815	111	1780	70	2235	88	4750	10450
OPTIMA 30 PLUS (**)	7 ÷ 10	100 ÷ 150	2,52 ÷ 5,34	89 ÷ 189	66	30	40	-	1830	72	960	38	1670	66	910	2002
OPTIMA 37 PLUS (**)	7 ÷ 10	100 ÷ 150	3,28 ÷ 6,48	116 ÷ 229	66	37	50	-	1830	72	960	38	1670	66	975	2145
OPTIMA 45 PLUS (**)	7 ÷ 10	100 ÷ 150	3,77 ÷ 8,00	133 ÷ 283	66	45	60	-	1830	72	960	38	1670	66	1040	2288
OPTIMA 60 PLUS (**)	7 ÷ 10	100 ÷ 150	5,46 ÷ 10,84	193 ÷ 383	68	55	75	-	2420	95	1245	49	1890	74	1910	4202
OPTIMA 75 PLUS (**)	7 ÷ 10	100 ÷ 150	6,96 ÷ 13,72	246 ÷ 485	68	75	100	-	2420	95	1245	49	1890	74	2010	4422
OPTIMA 90 PLUS (**)	7 ÷ 10	100 ÷ 150	8,29 ÷ 16,47	293 ÷ 582	68	90	125	-	2420	95	1245	49	1890	74	2130	4686
OPTIMA 110 PLUS (**)	7 ÷ 10	100 ÷ 150	10,19 ÷ 20,06	360 ÷ 708	69	110	150	-	2950	116	1440	57	1980	78	3040	6688
OPTIMA 132 PLUS (**)	7 ÷ 10	100 ÷ 150	11,94 ÷ 23,56	422 ÷ 830	69	132	175	-	2950	116	1440	57	1980	78	3170	6974








(\*) Available with energy recovery system (R)

(\*\*) Available with energy recovery system (R) or in water-cooled version (W)







F.A.D. in accordance with ISO 1217:1996 annex "E" | Sound pressure level according to ISO 2151, tolerance  $\pm 3$  dB(A), at 1500 rpm



400V/50Hz/3

 Model	 Max. working pressure		 F.A.D.		 Sound pressure level	 Motor		 Dimensions LxWxH						 Weight	
	bar	psig	m³/min	scfm		kW	hp	mm	ins	mm	ins	mm	ins	kg	lbs
MAXIMA 30 (*)	8	115	6,45	228	65	30	40	1830	72	960	38	1670	66	920	2024
MAXIMA 55 (*)	8	115	11,45	404	68	55	75	2420	95	1245	49	1890	74	1710	3762
MAXIMA 75 (*)	8	115	15,93	562	68	75	100	2420	95	1245	49	1890	74	2240	4928
MAXIMA XTREME 55 (*)	8	115	11,45	404	68	55	75	2430	96	1245	49	1890	74	2000	4409
MAXIMA XTREME 75 (*)	8	115	15,93	562	68	75	100	2430	96	1245	49	1890	74	2230	4916
MAXIMA 110 (*)	8	115	23,35	825	< 70	110	150	2350	93	1485	59	1980	78	2840	6248
MAXIMA 160 (*)	8	115	31,14	1100	< 73	160	200	2670	105	1780	70	2235	88	4150	9130
MAXIMA 30 PLUS (*)	8	115	6,45	228	65	30	40	1830	72	960	38	1670	66	1020	2244
MAXIMA 55 PLUS (*)	8	115	11,45	404	68	55	75	2420	95	1245	49	1890	74	1920	4224
MAXIMA 75 PLUS (*)	8	115	15,93	562	68	75	100	2420	95	1245	49	1890	74	2400	5280
MAXIMA XTREME 55 PLUS (*)	8	115	11,45	404	68	55	75	2430	96	1245	49	1890	74	2170	4784
MAXIMA XTREME 75 PLUS (*)	8	115	15,93	562	68	75	100	2430	96	1245	49	1890	74	2400	5291
MAXIMA 110 PLUS (*)	8	115	23,35	825	< 70	110	150	2950	116	1485	59	1980	78	3310	7282

460V/60Hz/3

 Model	 Max. working pressure		 F.A.D.		 Sound pressure level	 Motor		 Dimensions LxWxH						 Weight	
	bar	psig	m³/min	scfm		kW	hp	mm	ins	mm	ins	mm	ins	kg	lbs
MAXIMA 30 (*)	8	115	6,87	243	67	30	40	1830	72	960	38	1670	66	920	2024
MAXIMA 55 (*)	8	115	13,5	477	69	55	75	2420	95	1245	49	1890	74	1710	3762
MAXIMA 75 (*)	8	115	17,3	611	69	75	100	2420	95	1245	49	1890	74	2240	4928
MAXIMA 110 (*)	8	115	24	847	< 72	110	150	2350	93	1485	59	1980	78	2840	6248
MAXIMA 160 (*)	8	115	34	1201	< 75	160	200	2670	105	1780	70	2235	88	4150	9130
MAXIMA 30 PLUS (*)	8	115	6,87	243	67	30	40	1830	72	960	38	1670	66	1020	2244
MAXIMA 55 PLUS (*)	8	115	13,5	477	69	55	75	2420	95	1245	49	1890	74	1920	4224
MAXIMA 75 PLUS (*)	8	115	17,3	611	69	75	100	2420	95	1245	49	1890	74	2400	5280
MAXIMA 110 PLUS (*)	8	115	24	847	< 72	110	150	2950	116	1485	59	1980	78	3310	7282

(\*) Available with energy recovery system (R) or in water-cooled version (W).

Working pressure: 7,5 bar

F.A.D. in accordance with ISO 1217, annex "C"

Sound pressure level according to ISO 2151, tolerance  $\pm 3$  dB(A).

Working pressure: 7.5 bar



100  
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**ITALY - ING. ENEA MATTEI SpA**

Strada Padana Superiore, 307

20090 VIMODRONE (MI)

Tel + 39 02253051 - Fax +39 0225305243

E-mail: info@mattei.it

[www.matteigroup.com](http://www.matteigroup.com)



**FRANCE**

MATTEI COMPRESSEURS

Phone +33 5 35 54 22 05 - Fax +33 9 72 31 68 33

E-MAIL: adv@mattei.fr - www.mattei.fr

**GERMANY**

MATTEI KOMPRESSOREN DEUTSCHLAND GmbH

Phone +49 7151 5002560 - Fax +49 7151 5002565

E-MAIL: info@mattei-kompressoren.de - www.mattei-kompressoren.de

**GREAT BRITAIN**

MATTEI COMPRESSORS Ltd

Phone +44 (0)1789 450577 - Fax +44 (0)1789 450698

E-MAIL: info@mattei.co.uk - www.mattei.co.uk

**U.S.A.**

MATTEI COMPRESSORS Inc

Phone +1 410 5217020 - Fax +1 410 5217024

E-MAIL: info@matteicomp.com - www.matteicomp.com

**RUSSIAN FEDERATION**

ING. ENEA MATTEI SpA

Phone +7 499 1124877

E-MAIL: mattei-rus@mail.ru

**SPAIN**

ING. ENEA MATTEI SpA

Phone +34 93 435 03 94 - Fax +34 93 455 26 76

E-MAIL: info@mattei.it

**PEOPLE'S REPUBLIC OF CHINA**

Mattei (SuZhou) Air Compressors Manufacturing Co., Ltd

WFOE by Ing. Enea Mattei SpA - Italy

Tel: +86 512 66679986 Fax: +86 512 66679989

E-MAIL: info@matteisuzhou.cn - www.matteisuzhou.com

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REV.2