



# BLADE

BRINGING YOU THE FUTURE TODAY



**BLADE 1 | 2 | 3**



## Mattei: over 90 years of research and reliability



Ing. Enea Mattei SpA is an Italian company that has been manufacturing air compressors since 1919. Since then the company has continually evolved and is now one of the world's foremost companies in the compressed air sector and the leader in the production of rotary vane compressors.

Behind the success of Mattei are the choices the company has made in terms of design, production and marketing, driven by the results of its continual and in-depth research and development programmes.

Mattei's vision and interpretation of industry's changing needs, has consistently created innovative and technologically advanced products.

## Rotary Vane Technology. Choose the Best - Choose Mattei

Maximum efficiency of the air compression process, excellent reliability and low maintenance costs are just some of the key benefits that Mattei rotary vane technology offers.

The vane compressor is a positive displacement rotary compressor consisting of a stator cylinder in which a rotor is eccentrically mounted. The rotor has slots in which the specially profiled blades are free to slide, riding on a thin film of oil which provides lubrication and a perfect seal between the blades and the stator wall during rotation.

## BLADE

- ▶ **ROTARY VANE TECHNOLOGY**
- ▶ **MAXIMUM RELIABILITY**
- ▶ **EFFICIENT**
- ▶ **LOW MAINTENANCE COSTS**
- ▶ **QUIET**
- ▶ **COMPACT**
- ▶ **OPERATING PRESSURE 10 BAR**



## Applications



BLADE series rotary vane compressors, with installed powers from 1.5 to 3 kW and flow rates from 160 to 320 l/min, are easy to handle, robust and versatile.

Designed specifically for small and medium companies and craftsmen, BLADE compressors are ideal for those who want to limit investment and running costs but do not want to compromise on the quality and reliability their compressed air supply and the product supplying it.



BLADE compressors are suitable for several applications, for example:

- Tyre centres
- Painters
- Car washes
- Carpenters
- Bricklayers
- Petrol stations
- Garages
- Mechanics
- Body shops
- Laundries
- Supermarkets
- Bakers
- Laboratories



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## Service



Mattei is present with its sales and service network in more than 40 countries in Europe, America, Africa, the Middle East, Asia and Oceania.

When you purchase a Mattei compressor you enjoy highly qualified after sales service all over the world that can respond very quickly to any request for help. Technicians and engineers are at your complete disposal for advice, plant analysis, operational safety evaluation and to identify possible savings.

## Mattei Original Spare Parts

Mattei Original Spare Parts and Mattei Rotoroil lubricants are made to very high design standards and conform to exact 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 crucial to ensure the efficiency of your compressed air equipment
- ▶ Parts are always available in stock
- ▶ They are quality tested and conform to manufacturer's specifications
- ▶ Parts are designed for Mattei's recommended maintenance intervals





## THE BLADE SERIES

As in large industrial plants, small and medium sized ones also require clean compressed air, that is free of condensation, oil and dust. This is because the machines that use this resource are increasingly sophisticated and sensitive to any impurities contained in the air. The craftsman or small business today needs high quality

compressed air, but with a further requirement: reduced running costs with compressors that are reliable, long lasting and cost little to maintain. The choice of a BLADE series rotary vane compressor is thus a must for any application that needs to optimise the use of compressed air.



- Special fins on the oil chamber to efficiently dissipate heat.



- Anti-condensate valve and pressure gauge.



- Pressure switch.



- Receiver pressure gauge and non return valve.



# BLADE 1 | 2 | 3

## The Range

With their technologically innovative design, BLADE series compressors are a guarantee of quality, efficiency and reliability. Models are available with power from 1.5 to 3 kW, on bases or on 90 and 200 litre receivers. All BLADE series compressors have a pressure switch for Start-Stop operation.

### Safety and protection

BLADE series compressors fully conform to all safety and protection regulations.

All compressors have:

- an auxiliary low tension electrical circuit for complete safety;
- a thermostat that automatically switches off the motor if the air-oil mixture inside the compressor overheats;
- a safety pressure exhaust valve that automatically discharges surplus compressed air into the atmosphere if pressure gets too high;
- thermal protection that automatically stops the motor if too much current is absorbed.



BLADE



BLADE S 90 Litres



BLADE S 200 Litres

## Innovations and Advantages

### DIRECT COUPLING

Mattei has always produced compressors in which the electric motor, which turns at a speed of only 1,500 rpm, is directly coupled to the compression unit by means of a flexible joint. The electric motor is directly coupled to the airend, allowing great advantages in overall efficiency of the compressed air unit, meaning less kW per m<sup>3</sup>/min.

### INTEGRATED COOLING

The heat generated by compression is dispersed by a flow of cooling air from the fan attached to the electric motor which is blown across the special fins on the oil chamber. This solution avoids the problems and risks of blockage and subsequent overheating if a cooling radiator is not kept clean and therefore does not work correctly.

### QUALITY COMPRESSED AIR

Special three-stage air-oil separation permits superior quality air to be obtained with very low oil carry over.

### ANTI-CONDENSATE VALVE

Mattei has patented a unique and innovative anti-condensation system that, in conditions of low usage, prevents humidity in the air from condensing in the oil.

The special anti-condensate valve ensures that the optimal working temperature is reached so as to guarantee constant functioning over time.

### EASE OF MAINTENANCE

The BLADE series requires very little maintenance.

To facilitate the few operations required, BLADE compressors are supplied with a single, comprehensive maintenance kit.

### EASY TO INSTALL

BLADE series compressors do not need foundations or fixing. They can simply be placed on a flat surface. They are supplied complete with power cable and plug.



The BLADE model requires a receiver to be connected, of a minimum 90 litres for the BLADE 1 and BLADE 2 models and a minimum of 200 litres for the BLADE 3 model.

	4160701	Volt/H/Ph	r.p.m.	L	kW	hp	l/min	m <sup>3</sup> /h	cfm	l/min*	cfm*	bar	psig	dB(A)	LxWxH (mm)	kg
<b>230/1</b>																
<b>BLADE 1</b>	GEXAC4XAAC	230/50/1	1500	-	1,5	2	160	9,6	5,65	250	8,83	10	150	64	720x360x480	41
<b>BLADE S 1 90I</b>	GEJAC4XACC	230/50/1	1500	90	1,5	2	160	9,6	5,65	250	8,83	10	150	64	1000x450x950	74
<b>BLADE S 1 200I</b>	GEJAC4XADC	230/50/1	1500	200	1,5	2	160	9,6	5,65	250	8,83	10	150	64	1050x600x1160	113
<b>BLADE 2</b>	GEXAA4XAAD	230/50/1	1500	-	2,2	3	240	14,4	8,48	360	12,71	10	150	64	720x360x480	43
<b>BLADE S 2 90I</b>	GEJAA4XACA	230/50/1	1500	90	2,2	3	240	14,4	8,48	360	12,71	10	150	64	1000x450x950	76
<b>BLADE S 2 200I</b>	GEJAA4XADA	230/50/1	1500	200	2,2	3	240	14,4	8,48	360	12,71	10	150	64	1050x600x1160	115
<b>400/3</b>																
<b>BLADE 1</b>	GEXAC42B0A	400/50/3	1500	-	1,5	2	160	9,6	5,65	250	8,83	10	150	64	720x360x480	40
<b>BLADE S 1 90I</b>	GEJAC42B0A	400/50/3	1500	90	1,5	2	160	9,6	5,65	250	8,83	10	150	64	1000x450x950	73
<b>BLADE S 1 200I</b>	GEJAC42BAA	400/50/3	1500	200	1,5	2	160	9,6	5,65	250	8,83	10	150	64	1050x600x1160	112
<b>BLADE 2</b>	GEXAA42B0A	400/50/3	1500	-	2,2	3	240	14,4	8,48	360	12,71	10	150	64	720x360x480	42
<b>BLADE S 2 90I</b>	GEJAA42B0A	400/50/3	1500	90	2,2	3	240	14,4	8,48	360	12,71	10	150	64	1000x450x950	75
<b>BLADE S 2 200I</b>	GEJAA42BAA	400/50/3	1500	200	2,2	3	240	14,4	8,48	360	12,71	10	150	64	1050x600x1160	114
<b>BLADE 3</b>	GEXAC42BAA	400/50/3	3000	-	3	4	320	19,2	11,3	450	15,89	10	150	70	720x360x480	43
<b>BLADE S 3 200I</b>	GEJAC42BBA	400/50/3	3000	200	3	4	320	19,2	11,3	450	15,89	10	150	70	1050x600x1160	115

\* Air intake volume of an equivalent piston compressor



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