



Series

# RB-J

OIL FREE Screw Compressors  
for Pneumatic Transport

**BETICO**<sup>®</sup>  
COMPRESSORS



# EXPERIENCE



In the BETICO GROUP, national leader in the manufacture and sale of compressors since 1925, we design and manufacture top quality air compressors.

Our RB range of low pressure compressors is specially designed for the quick and practical transport of granular and powdery products. Our know-how, recognised quality, tried-and-tested reliability and an exceptional after-sales service, have lent BETICO compressors prestige which is hard to beat.

# DESIGN AND TECHNOLOGY

Continuous investments in R&D, allocated to coming up with new ideas, and the use of the most advanced computer-aided design systems, allow us to be at the forefront of the compressed air industry and to seek new ways of satisfying the changing needs of an increasingly more sophisticated industrial fabric which pursues efficiency and energy savings.

# RB-J Series

SINCE 1925  
IN THE BETICO GROUP,  
WE HAVE DESIGNED AND MANUFACTURED  
TOP QUALITY COMPRESSORS



## TOTAL QUALITY

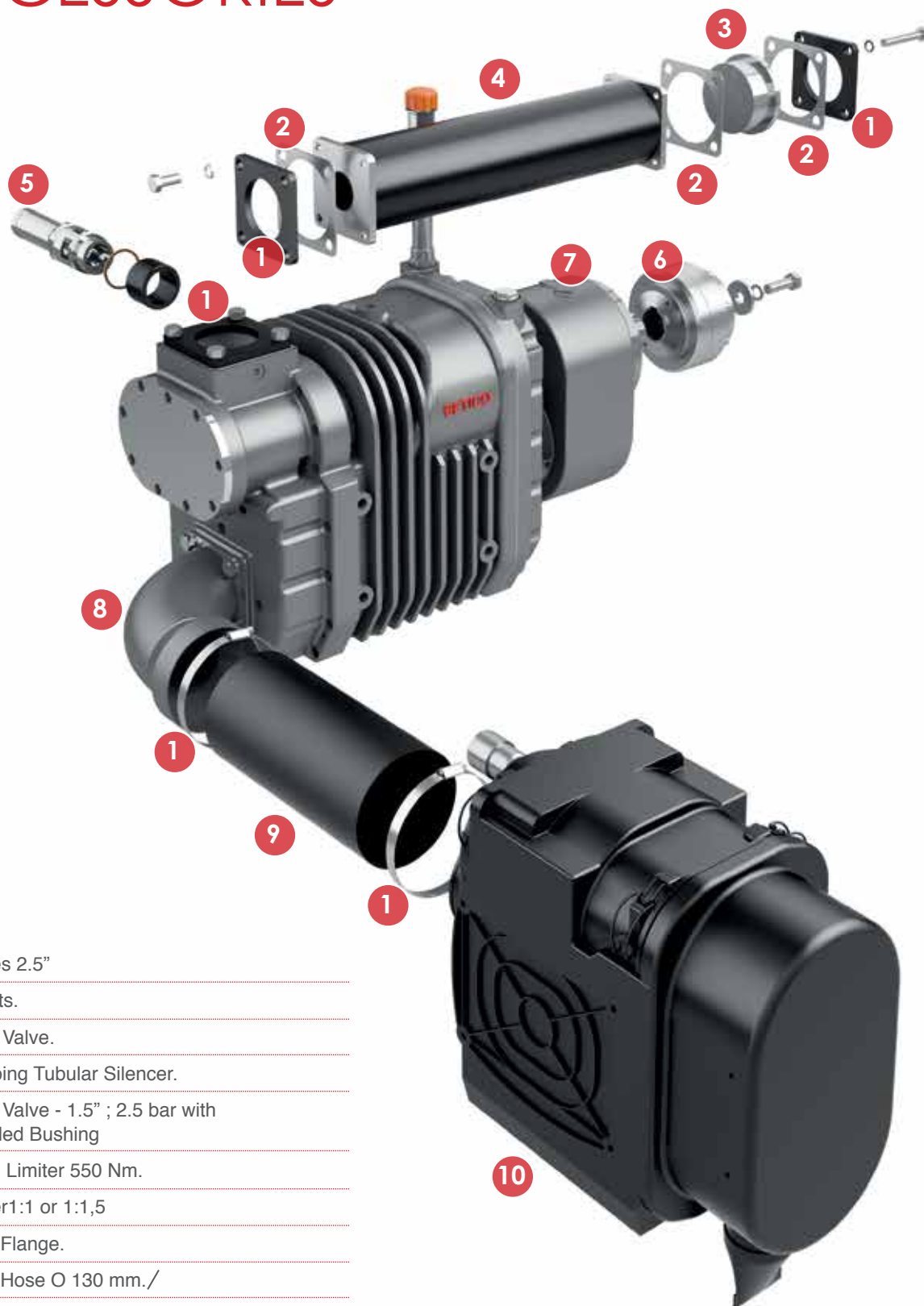
The ISO-9001 TOTAL QUALITY MANAGEMENT SYSTEM certifies the facilities in our factory in Vitoria, in addition to our manufacturing processes and all the companies comprising the BETICO GROUP. This guarantees total quality in the design, development, production and technical and commercial support of all BETICO compressors.

To meet this objective we work with continuous improvement systems which have been assimilated by all staff.



# DIRECT PTO MOUNTING

## ACCESSORIES



- 1 > Flanges 2.5"
- 2 > Gaskets.
- 3 > Check Valve.
- 4 > Absorbing Tubular Silencer.
- 5 > Safety Valve - 1.5" ; 2.5 bar with Threaded Bushing
- 6 > Torque Limiter 550 Nm.
- 7 > Inverter 1:1 or 1:1,5
- 8 > Intake Flange.
- 9 > Intake Hose O 130 mm./
- 10 > Air Filter with Maintenance Display.

# RELIABILITY AND SIMPLICITY

## ADVANTAGES OF THE MACHINE



### RB-J SERIES

The synchronised screw compressors in the new RB-J series produce OIL FREE compressed air. They are the ideal solution for all kinds of transport: cereals, flour, sugar, salt, chemical granular products, fodder and powdery products, which require air to be completely oil free. Their different options allow them to be used in lorries and in permanent facilities.

### OIL FREE AIR AND

The special design of these compressors, with no contact between the rotors, or the housing, allows them to operate without greasing in the compression chamber.

### ECONOMICAL OPERATION

Their high manufacturing quality, made using first class materials and minimum tolerances, guarantee high performance, thereby reducing energy consumption and the supply temperature.

### TOTAL RELIABILITY AND MINIMUM MAINTENANCE

The maintenance of these compressors is reduced when changing the oil and the air and oil filters. The rest of the compressor is designed to operate for many years without any other type of intervention being required.



### RB-12J

This is a compact compressor with an average flow rate of 420-720 m<sup>3</sup>/h. Its compact and very slim design enable it to be mounted inside any lorry, whether by using belts, or by directly coupling the cardan shaft to the engine P.T.O.

### RB-18J

With a slightly longer length than the RB-12J, it is suitable for applications requiring very high flow rates. It can operate up to 1000 m<sup>3</sup>/h. This enables a higher discharge speed.

# MOUNTING OPTIONS



## P.T.O. DRIVEN AND BELT DRIVE

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Belt drive: The compressor is mounted on the side of the lorry and is driven using a belt drive which is driven in turn by a cardan shaft. There is a special kit with all the parts required to ensure that this mounting is performed in a few hours only.



## P.T.O. DRIVEN AND DIRECT DRIVE

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The compressor is mounted inside the lorry chassis and is directly driven by a cardan shaft. The mounting includes a torque limiter to protect the lorry gearbox. Currently, there are two different silencer types available to facilitate mounting depending on the available space.



## DRIVEN BY HYDRAULIC MOTOR

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The compressor is mounted in the tank and/or in the tractor unit. This is the best solution when looking for interchangeability with as little weight as possible. It can be supplied completely including the oil cooler for the hydraulic circuit.



## DRIVEN BY ELECTRIC MOTOR

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Ideal for permanent or industrial applications. The high quality of the compressor and the use of the compressor oil cooler enable operating 24 hours a day. It is supplied complete, mounted on a robust frame with control components and the electric control panel which ensure reliable operation. A variable speed drive can be added to regulate the compressor flow rate.



## SOUNDPROOFING BOX

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The equipment driven by electric motor can be supplied with a soundproofing box.



## DRIVEN BY DIESEL ENGINE

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Engine-compressor set, completely autonomous, directly driven by diesel engine flanged to the compressor forming a robust and compact set.

The engine is air cooled and satisfies the new European standards on fume and noise emission.

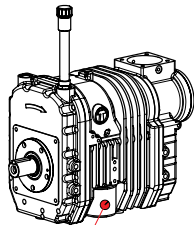
All the mounting options include the following accessories:

- Intake filter.
- Supply silencer.
- Check valve.
- Safety valve

Optionally, there are also heat exchangers for applications requiring air at low temperatures (PVC, PELLET, etc.).

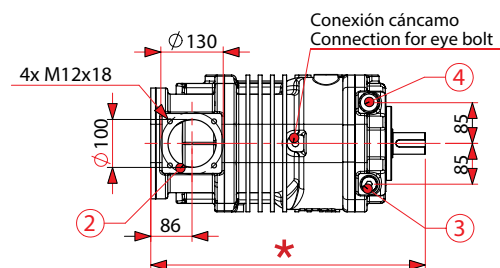
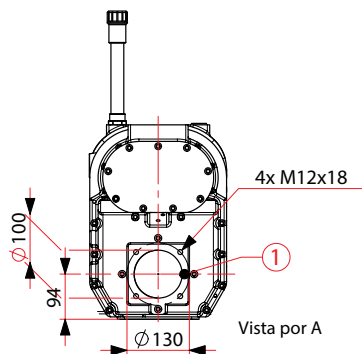
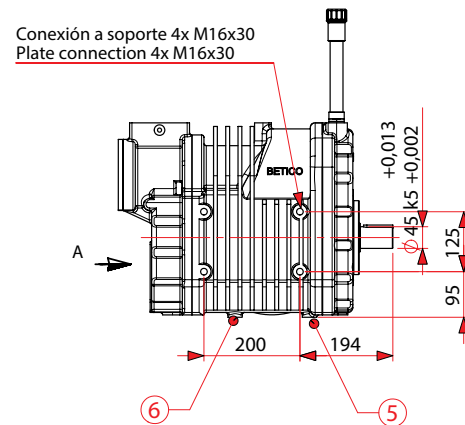
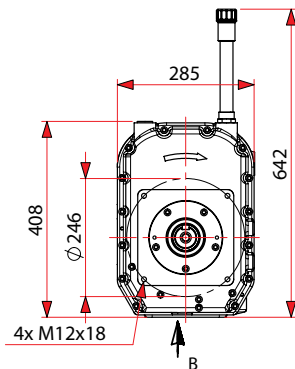
# TECHNICAL FEATURES

MODEL		RB-12J			RB-18J		
Air flow rate at a pressure of 2 bar	m <sup>3</sup> /h	435	576	650	735	980	1100
Inlet temperature	°C	20	20	20	20	20	20
Inlet temperature (abs.)	bar	1	1	1	1	1	1
Maximum operating overpressure	bar	2.5	2.5	2.5	2.5	2.5	2.5
Speed	r.p.m.	1200	1600	1800	1200	1600	1800
Power consumed in the shaft at 2 bar.	Kw.	28	37	42	41	55	62
Weight. Without accessories	Kg.		140			150	



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- 1 / Intake flange
- 2 / Supply flange
- 3 / Oil filling plug G 3/4"
- 4 / Oil filling plug with level indicator G 3/4"
- 5 / Oil draining plug G 1/2"
- 6 / Oil draining plug G 1/2"
- 7 / Oil filter



- \* Mod. RB-12J = 572
- \* Mod. RB-18J = 628

All the measurements in these diagrams are similar for the RB-12J and RB-18J models



Series  
RB-J



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