

Reciprocating Compressors

Boosters

N SERIES

Effective up to 45 bar



Why boosters

The ability to offer compressed air at various pressures makes it one of the most versatile energy sources available. Special applications require specifically tailored solutions in order to achieve optimum efficiency. Boosters are ideal for applications such as PET container production for example, where compressed air is required at a higher pressure than the standard works or control air at particular points in the manufacturing process. In these cases, it is more economical to use the existing works air and boost it to the higher pressure with a small local compressor, rather than to operate the whole compressed air system at the higher pressure. Regulating the pressure of a high pressure network to suit low-pressure applications (which account for most air usage) is simply a waste of money..

KAESER offers a comprehensive range of high performance reciprocating compressors that are able to boost compressed air from a rotary screw compressor up to pressures as high as 45 bar(g). These machines are perfectly matched for use with KAESER KOMPRESSOREN's extensive range of rotary screw compressors and SIGMA PET AIR systems.

Energy-saving motors

Needless to say, all KAESER N series compressors are equipped with premium efficiency IE3 efficiency class drive motors.

Ticket to high-pressure performance

Your ticket to high-pressure performance N-series boosters augment your existing system pressure in specific locations, elevating it up to 45 bar. Kaeser offers an extensive range of high-performance booster reciprocating compressors that work in perfect harmony with Kaeser rotary screw compressors and SIGMA PET AIR stations.

The N-series boosters are available with one, two or three cylinders and operate within the following **performance parameters:**

- Initial pressure up to 13 bar – discharge pressure up to 45 bar
- Flow rate: 0.27 – 20.51 m³/min

Compared to designing the entire compressed air supply system for higher pressure, the use of boosters is significantly more cost-effective for all applications that require process air with a higher degree of compression than the normal control air and supply air at specific locations. PET bottle production is an excellent example of such applications.

Advantages

Continuous high-pressure operation:

- Innovative features such as oil pressure lubrication and intensified cylinder cooling ensure both long service life and low maintenance requirements as well as continuous system-compatible maximum pressure of 45 bar.

Exceptionally low oil requirement:

- The high quality cylinders are plateau-honed and feature an extra layer of wear protection. These details ensure low oil consumption over the entire service life.

For especially cool compressed air:

The compressed air after coolers on the three-cylinder boosters are equipped with separate fans, which ensure low compressed air discharge temperatures. The boosters can be additionally equipped with water-cooled after coolers to attain even lower temperatures.