KAESER COMPRESSORS®

Boosters

N Series

Flow rate 0.27 to 1.40 m³/min

Initial pressure up to 13 bar – Final pressure up to maximum 40 bar

www.kaeser.com

Boosters

Efficient and flexible with minimal maintenance requirement – KAESER N series boosters provide even greater compressed air versatility thanks to the different available pressure levels. Special applications also 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 network pressure and 'boost' it to the higher pressure with a smaller 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 network fed by rotary screw compressors up to pressures as high as 40 bar(g). These machines are perfectly matched for use with KAESER's extensive range of rotary screw compressors and SIGMA PET AIR stations.

Energy-saving motor

Energy-saving IE3 electric motors are used in all N series boosters and are characterised by their impressive efficiency, which not only enhances operational performance, but also plays a key role in safeguarding the climate and environment.

Low maintenance = Savings

The combination of the innovative forced lubrication system, precision machining and high quality components ensures minimal maintenance requirement. This increases compressed air availability and reduces costs.

Nitrogen compression

Upon request, modified versions of N series systems are available for compression of nitrogen, making them ideal for the food and pharmaceutical industries, as well as for use in industrial production.

START CONTROL (STC)

START CONTROL reliably monitors and controls the booster and also reduces start-up current. The version with integrated star-delta starter and constant-speed operation is equipped with premium contactor technology, an overcurrent relay and phase monitoring.

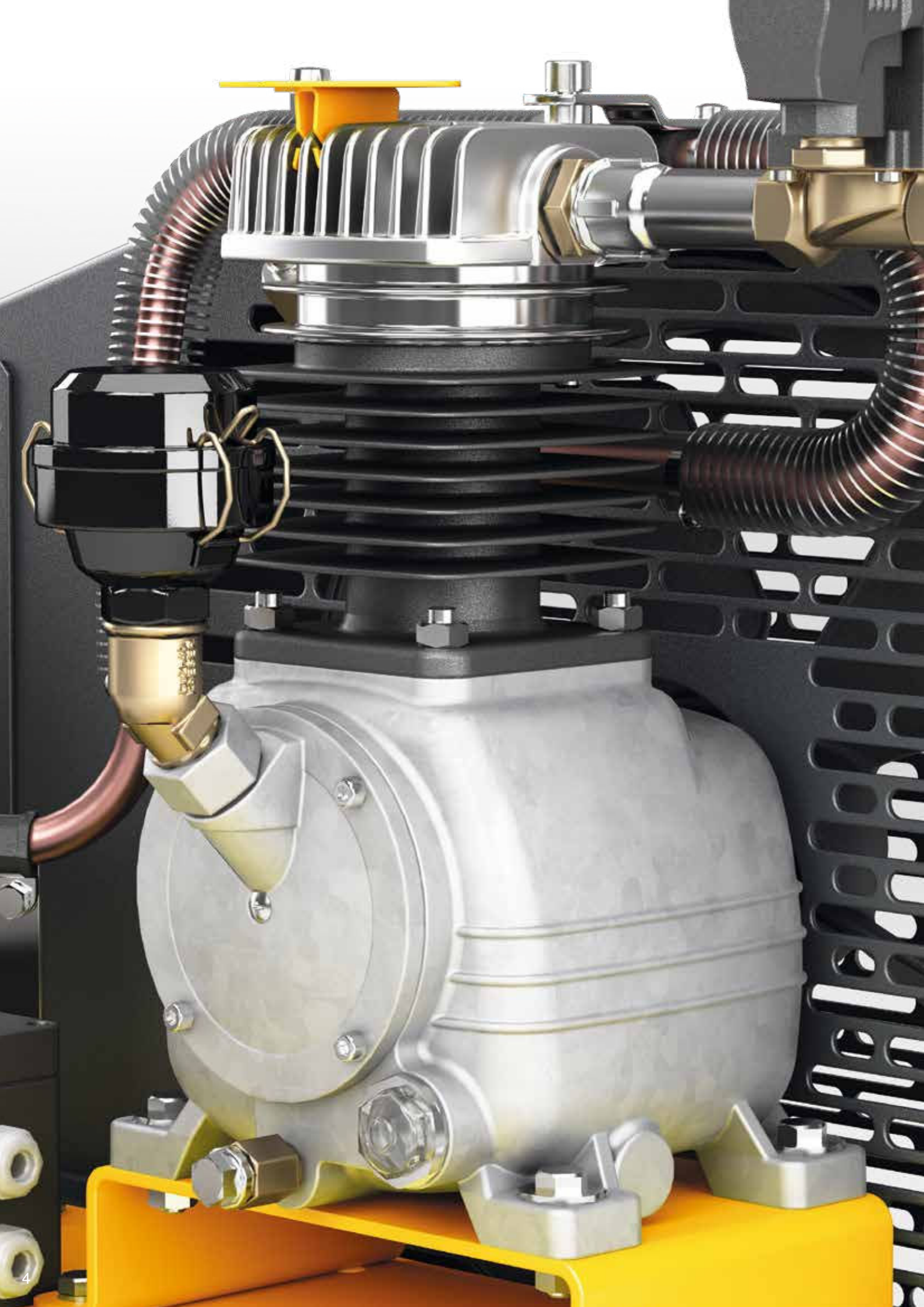
Made in Germany

Every N series booster is equipped with a Made in Germany KAESER compressor block. The compressor blocks are manufactured in KAESER's reciprocating compressor production centre at the Coburg plant, where the complete systems are also assembled and tested. High-quality materials and meticulous assembly guarantee maximum compressed air performance and long service life.

The efficient boost for your process air

PREMIUM EFFICIENCY IE3 MOTOR

Image, left to right: N153-G, N60-G, person with a height of 1.80 m (5ft 11in)



N series boosters

Your ticket to high-pressure performance

N series boosters augment existing system pressure up to 40 bar where needed. 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.

KAESER compressor block

Designed and manufactured by KAESER, the high-pressure compressor blocks are available as one or two cylinder models and operate at low speed to provide years of reliable and consistently efficient service.

High quality cylinders

Every KAESER booster is equipped with super-precision cylinders, each finished by a special process to ensure minimal oil consumption and negligible wear for maximum durability.

Low temperatures

The structural design enables low compressed air discharge temperature. Booster compressors with water-cooled aftercoolers achieve even lower „Delta T" results.

Energy-saving motors

Naturally, every KAESER N series booster reciprocating compressor features an energy-saving, premium efficiency IE3 drive motor.

Accessories and options

Oil level monitoring

Continuous oil level monitoring ensures reliable operation. In order to prevent damage and costly downtime, the system automatically shuts the machine down if the oil level becomes too low.

Remote contact thermometer

You can keep an eye on the block discharge temperature at all times with the remote contact thermometer. This improves operational reliability and prevents potential downtime.

Sound enclosure

The optional sound enclosure protects the environment from noise exposure, thereby allowing work to take place comfortably in the immediate vicinity of the machine.

START CONTROL

START CONTROL reliably monitors and controls the booster and also reduces start-up current. This saves energy and reduces CO_2 emissions.

Different oil type

The oil type can be adapted to suit the needs of the specific application, making the boosters exceptionally flexible; food-grade oil can be used for example.

Nitrogen N_2 version

Modified N series booster versions are available for the compression of nitrogen.

Technical specifications

Model	Initial pressure	Final pressure	Flow rate 1)	Theoretical intake volume	Displacement	Compressor block speed	No. of cylinders	Rated motor power	Sound pressure level 2)	Air connection		Dimensions W x D x H	Weight
	bar	bar	m³/min	m³/min	m³/min	Strokes/min	kW	kW	dB(A)	Initial pressure side	Final pressure side	mm	kg
N 60-G	5	20	0.27	0.41	0.05	1150	1	2.2	74	G ½	G ½	920 x 450 x 550	70
	7.5	30	0.38	0.52									
	10	35	0.53	0.68									
	13	35	0.75	0.77									
N 153-G	5	15	0.67	1.1	0.15	650	2	2.2	74	G ¾	G ½	1390 x 720 x 820	255
	5	20	0.57	1.1				4					
	7.5	15	1.03	1.4				2.2					
	10	15	1.40	1.84				2.2					
	10	40	0.89	1.84				4					
	13	40	1.33	2.08				4					

1) Flow rate is relative to the atmospheric intake conditions, 20 °C ambient temperature, intake temperature of 25 °C and maximum 1000 m above mean sea level.
2) Sound pressure level as per ISO 2151 and the basic standard ISO 9614-2, tolerance: ± 3 dB(A).

Views

Image: **N 60-G**

Image: **N 153-G**

The world is our home

As one of the world's largest manufacturers of compressors, blowers and compressed air systems, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiaries and authorised distribution partners in over 140 countries.

By offering innovative, efficient and reliable products and services, KAESER KOMPRESSOREN's experienced consultants and engineers work in close partnership with customers to enhance their competitive edge and to develop progressive system concepts that continuously push the boundaries of performance and technology. Moreover, decades of knowledge and expertise from this industry-leading systems provider are made available to each and every customer via the KAESER group's advanced global IT network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that every product operates at peak performance at all times, whilst providing maximum availability.

LGA InterCert
Certified
QM/EM System
DIN EN ISO 9001:2015/
14001:2015

KAESER KOMPRESSOREN SE
P.O. Box 2143 – 96410 Coburg – GERMANY – Tel +49 9561 640-0 – Fax +49 9561 640-130
E-mail: productinfo@kaeser.com – www.kaeser.com

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