Reciprocating Compressors

Boosters

DN C SERIES

Flow rate 2.9 to 19.6 m³/min – Rated motor power 22 to 45 kW
Initial pressure 3 to 13 bar – Final pressure 10 to 45 bar

Boosters
Boosters are used when pressures higher than the standard system pressure are required at specific points in a production process for technical reasons; PET container production is one of the most well-known examples of such a process. KAESER KOMPRESSOREN is proud to welcome in a new era in booster technology with its innovative complete systems.
Newly designed and requiring less than half of the installation space of previous comparable systems, these compact complete packages – quite literally – have everything you need to ensure a dependable supply of quality high pressure compressed air: The completely new and meticulous design of these packages not only provides optimised cooling air flow, but also enables excellent access for maintenance and service work. Another key advantage is that these new booster packages are perfectly matched for seamless networking with their "suppliers" – making them fully compatible with Industry 4.0 environments.

Energy efficient
IE3 premium efficiency drive motors contribute to costeffective energy usage as does the generously-dimensioned axial fan which also assures reliable temperature control.

Perfect partners
DN C series boosters are perfect team players for every compressed air station and won't be outdone by their rotary screw "colleagues": optionally available with air or water cooling, all units come factory-configured for perfect performance in ambient temperatures up to 45 °C. The same also applies to their networking capabilities: the SIGMA CONTROL 2 system controller ensures full connectivity both within the station, as well as with the SIGMA AIR MANAGER 4.0 master controller – and therefore with Industry 4.0 environments.

Service-friendly
All maintenance-relevant components, such as cylinders and discharge valves, filters, condensate separators, oil drain and filling openings are quickly and easily accessible thanks to large maintenance doors. The removable panel on the cooler side enables straightforward belt changes and provides easy access to the cooler.

All-round reliability
The integrated SIGMA CONTROL 2 controller automatically monitors all key values: initial and final pressure, discharge pressure of the individual cylinders, drive motor winding temperature, oil pressure and level, compressed air discharge temperature, compressor and control cabinet fans and status of maintenance doors (open/closed).

"Plug & Work" complete systems
KAESER's integrated booster systems are completely unique: all application-relevant components are provided and configured ex works to provide a system that's ready for immediate use.

Compact design, impressive performance
KAESER DN C boosters deliver precision-tailored extra pressure, yet have a footprint of only 2.35 m² compared to the previous 5 m² (dotted line). The icing on the cake is that these complete systems are ready for immediate operation: simply install, connect and you're all set!

Unique and compact power house with a footprint of only 2.35 m²
This complete system has it all: Featuring a new design and a footprint approximately half the size of previous models, the DN C looks good both on the inside and outside. The new component layout not only ensures optimised cooling air flow, but also provides maintenance access.
Moreover, the updated SIGMA CONTROL 2 controller offers new, multiple monitoring and control options with a number of interfaces – including for connection to master controllers – with dynamic control.

Performance parameters:

- 22 – 45 kW
- Initial pressure up to 13 bar – discharge pressure up to 45 bar
- Flow rate: 2.9 – 19.60 m³/min

Optional features:

- The system is available as an air- or water-cooled version. Versions for nitrogen recovery, or a closed variant without external air (N2 version), are also available.

Applications:

- PET bottle production, process air applications, nitrogen production, high pressure for test stations (e.g. brakes, coolers, etc.), test stations for pressure checks, burst pressure tests, and pulse tests.

Advantages
Compact:

- This unique compact package is space-saving and powerful: no compromises in performance, reliability or energy efficiency.

Minimal installation effort:

- The DN C is delivered ready for connection to the electricity supply. The system can be configured for a large number of applications, including self-monitoring applications.

Service cost savings:

- Thanks to the new design with access from the front. This is made possible due to the new component layout, which also reduces maintenance effort, e.g. when performing belt changes.

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