

COMPACT Series

Deliveries from 1.5 to 74 m³/min
Pressure up to 1000 mbar, vacuum down to 500 mbar



COMPACT blowers with small footprint

What do you expect from a rotary blower?

Economics play a central role in all blower applications. This presumes lowest possible operating costs achieved with a low specific energy requirement and simple maintenance. Minimum space requirement and installation work also contribute to cost savings.

Low noise emission from the blower means less expense in soundproofing the room in which it is housed.

Furthermore, the machine is expected to operate in perfect safety and with utmost reliability.

All these requirements are fulfilled by KAESER COMPACT blowers.

Function

Air is drawn in and filtered through the inlet silencer ①, which is equipped with a contamination indicator. The air enters the blower block ② where it is trapped between the lobes of the rotors and the block casing and transported to the discharge port.

The 3-lobe rotors minimize pulsations and the block casing has offset chambers for pressure equalisation.

The rotors are driven from an electric motor ⑤ via V-belts ③ with automatic tensioning ④. The discharge silencer ⑥ adsorbs any residual pulsations over a wide frequency.

An unloaded start valve ⑦ allows the blower to run up easily and a pressure relief valve ⑧ gives protection from excessive pressure.



- ① Inlet silencer with integrated filter and contamination indicator.
- ② Blower block
- ③ V-belt drive
- ④ Automatic belt tensioner
- ⑤ Electric motor
- ⑥ Discharge silencer with check flap
- ⑦ Unloaded start valve
- ⑧ Pressure relief valve

The innovative concept

Intelligent component layout is the key to the small footprint occupied by the COMPACT blowers, and the arrangement also allows all maintenance to be carried out from one side. Pipe connection and inlet opening are located on the rear of the package, which means that COMPACT blowers can be positioned adjacent to each other.



Block with 3-lobe, OMEGA-profile rotors

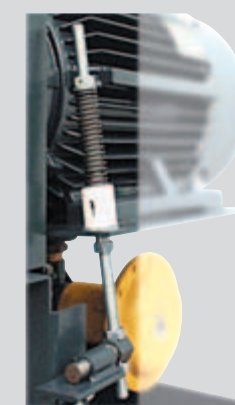
Low power consumption results from the minimum clearance between the rotors and



the casing, made possible by the intrinsic stiffness of the rotors and the non-axial loading, spur-ground timing gears. Heavy-duty roller bearings and dynamic balancing contribute to long operational life. For applications up to 1000 mbar(g).

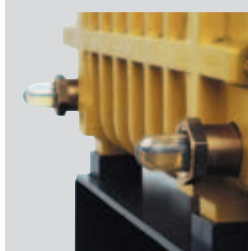
Automatic belt tensioning

Keeping the V-belts automatically at the right tension minimises transmission losses and extends belt life, thereby reducing maintenance costs.



Safer operation

Prominent, high-visibility oil sight glasses greatly simplify oil level checking.



Simple oil changing

Front-extending drain pipes and taps make light work of oil changing.



Proper cooling

Optimum design of air ducting in the soundproof enclosure and a powerful, separately-driven fan ensure highly effective cooling.



Space saving

KAESER COMPACT blowers save space - exactly as their name suggests. The component parts of the energy-efficient, quiet running blower with unloaded start valve and pressure relief valve, are cleverly and considerably arranged to occupy the minimum of floor space and still be easy to maintain.

Versatile



Optional additional silencing boxes are available to achieve really low sound levels. Blowers can be designed for outdoor installation if required and may also be fitted, on request, with thermometer, pressure gauge and pressure differential indicator for the inlet filter.

Technical specification

Model	Pressure		Vacuum		Max. motor power kW	Pipe connection DN	Dimensions W x D x H mm
	max. pressure mbar (g)	max. delivery* at 300 mbar(g) m³/min	max. vacuum mbar(a)	max. delivery* at 800 mbar(a) m³/min			
BB 53 C	1000	4.8	500	4.8	11	50	967 x 780 x 1160
BB 68 C	1000	5.9	500	5.9	15	65	967 x 780 x 1160
BB 88 C	1000	8.2	500	8.3	15	65	967 x 780 x 1160
DB 130 C	1000	12.3	500	12.4	30	80	1190 x 1130 x 1450
DB 165 C	1000	15.6	500	15.7	37	100	1190 x 1130 x 1450
DB 235 C	1000	22.1	500	22.3	45	100	1190 x 1130 x 1450
EB 290 C	1000	28.6	500	28.8	75	150	1560 x 1485 x 1780
EB 420 C	1000	40.2	500	40.5	75	150	1560 x 1485 x 1780
FB 440 C	1000	41.3	500	41.6	90	200	1750 x 1600 x 1900
FB 620 C	1000	58.5	500	58.9	110	200	1750 x 1600 x 1900
FB 790 C	1000	73.7	500	74.2	110	250	2000 x 1600 x 2080

*Air flow in accordance with ISO 1217, 1996, annex C

Dimensions

