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KAESER COMPRESSORS

HPC | Compressed Air Systems

KAESER Blowers
Low Pressure Solutions

With the world-renowned SIGMA PROFILE or OMEGA PROFILE

Air delivery 0.59 to 160 m³/min – Pressure up to 1100 mbar, Vacuum to 550 mbar

KAESER

The world-renowned compressor and blower manufacturer

Established by Carl Kaeser Sr. as a machine workshop in 1919, KAESER started on the road to becoming one of the world's leading compressed air systems providers when the first reciprocating compressor left the Coburg production line in 1948. The final breakthrough came in the 1970s with the development of KAESER's screw compressor featuring the energy-saving SIGMA PROFILE.

LGA InterCert
Certified QM/EM System
ISO 9001:2008 / ISO 14001:2004

Gera plant

In 1991, KAESER acquired the 'Geraer Kompressorenwerke', a company with a proud heritage of over 100 years of compressor and blower construction. Production of KAESER's newly developed OMEGA rotary blowers began at the plant in 1993 and today these highly efficient systems are exported, together with all necessary accessories and equipment, to every corner of the planet.

Covering an area of over 60,000 m², the Gera plant currently employs approximately 300 people and produces KAESER's extensive range of rotary blowers, screw blowers and compressed air refrigeration dryers.

All companies in the international KAESER group are linked by the very latest information and network technology.

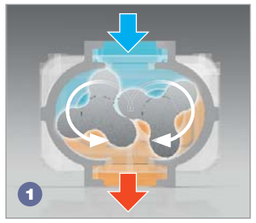
Contents

Fields of application

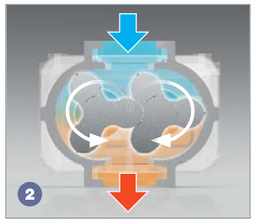
KAESER blowers are used in a wide range of applications, such as efficient and oil-free bulk material conveying, drinking and wastewater treatment (filter cleaning and aeration), liquid homogenisation and forced air systems for combustion equipment; the possibilities are almost endless – KAESER blowers are as versatile and varied as the applications that they are used for.

How it works
KAESER rotary blowers

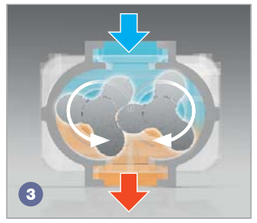
The pressure build-up process – the images depict cross-sections of the flow chamber in the KAESER OMEGA rotary blower block.



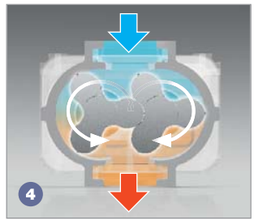
Intake



Pressure build up



Air expelled



Flow chamber completely evacuated

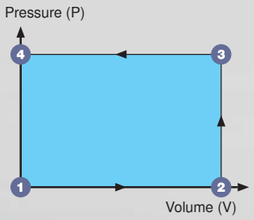
Oil-free, isochoric compression process

As the intake air passes through the rotary blower's flow chamber, its volume remains constant (isochoric process). Actual compression takes place outside of the blower block with the accumulation of the air mass taking place in the subsequent process. This "adaptive" compression always produces only the amount of pressure needed by the process. This makes rotary blowers particularly suitable for applications with a relatively high proportion of idling (e.g pneumatic conveying) and / or heavily fluctuating pressure.

The numbers correspond to the points in the pressure-volume diagram.

1. Intake and capture of atmospheric air (left rotor).
2. Air is conveyed towards the pressure side; compression commences at the 120° rotation angle due to prior influx of already compressed air.
3. Compression in the conveying chamber ceases; discharge commences.
4. Conveyed air mass is discharged into the process.

Image: OMEGA block



Thermodynamic energy consumption

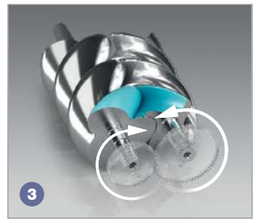
The pressure-volume diagram (P-V diagram) illustrates the energy, or compression work, expended for compression on the basis of the area depicted in blue between points 1 to 4.

How it works
KAESER screw blowers

The pressure build-up process – viewed from the pressure side onto the paired rotors in the SIGMA-B screw blower block, the figures depict the air volume enclosed in the screw chamber.

Intake air is captured

Volume is reduced



Expelled to pressure side

Flow chamber completely evacuated

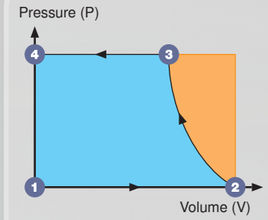
Oil-free isentropic compression process

As it is being conveyed through the screw compression block, the entropy of the intake air remains virtually constant (isentropic). Compression takes place in the block, where the air volume is continuously reduced up until it reaches the block outlet and is pushed out against the pressure. The lower compression effort required to achieve the same air volume results in lower energy consumption. Screw blowers are ideally suited for applications with a near constant pressure demand and which require long running periods, such as in filter bed aeration, flotation etc.

The numbers correspond to the points in the pressure-volume diagram.

1. Intake and capture of atmospheric air.
2. Conveying toward pressure side to outlet.
3. Pressure increase through volume reduction.
4. Compressed air discharged.

Image: SIGMA blower airend



Thermodynamic energy consumption

Energy savings

The pressure-volume diagram (P-V diagram) illustrates the compression work in proportion to the energy expended on on the basis of the area depicted in blue between points 1 to 4.

The orange area shows the potential energy savings when a screw blower is used in comparison to a conventional rotary blower (roots blower), as long as no over-compression occurs.

EBS – FBS series
Air delivery up to 67 m³/min, pressure differential
Gauge pressure to 1100 mbar,
Vacuum to 550 mbar

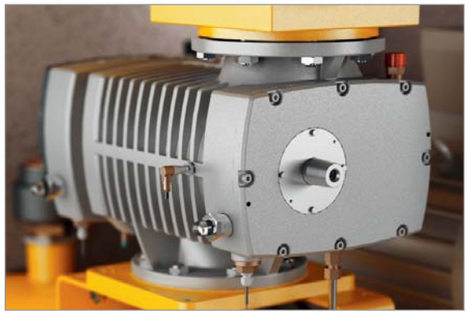
Screw blowers

Pure efficiency – SIGMA PROFILE

Developed in the company's in-house Research and Development centre, the KAESER screw blower airend with the world-renowned SIGMA PROFILE is up to 35 percent more efficient than conventional airend designs. In addition to efficiency, durability was also an important development goal. The use of high-tech bearings and no need for ancillary equipment further minimises energy consumption and also enhances reliability.

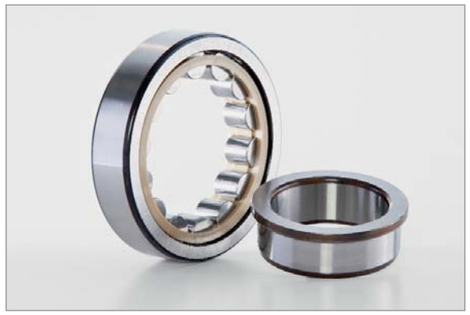
SIGMA PROFILE blower airend

The high-efficiency blower airend combines a wide control range with near constant specific power. Equipped with SIGMA PROFILE rotors, they ensure maximum air delivery and keep power consumption to an absolute minimum.



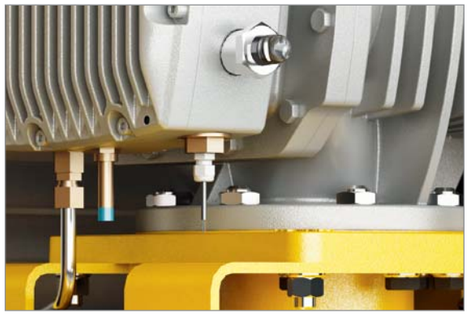
Dependable seals

The field-proven sliding ring seal on the rotary transmission drive shaft lead-through of the screw blower airend is maintenance-free and provides dependable sealing, even in hot and/or dusty environments.



Durable bearings

All radial forces are borne by four robust cylinder roller bearings, which are rated to ensure long screw blower airend service life. The rollers are encased in high-tech cages for optimum lubrication at all speeds. Additional oil pressure lubrication is not necessary.



Seamless system monitoring

Sensors for oil level and temperature monitoring are integrated into the blower airend. The oil chamber is designed to ensure dependable oil level measurement in all operating phases.

Check out the inside...

Simply use your smart phone to decode the link in the QR code and take a virtual flight to explore the inside of a KAESER screw blower (http://www.kaeser.com/ebs-flight).

Screw blowers

EBS – FBS series, SFC/STC version

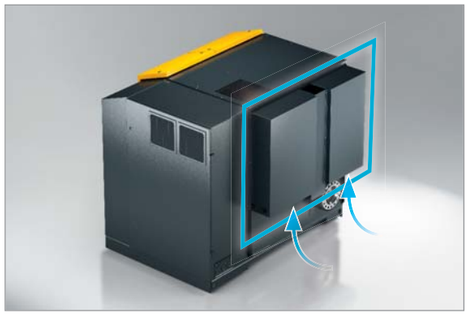
The combination of an advanced blower airend with the energy-saving SIGMA PROFILE, high-efficiency mechanical and electrical components, minimal air-flow losses in the silencers, efficient power transmission from the drive motor to the blower airend, as well as lowest possible electrical losses in the power switching module, ensures that KAESER screw blowers deliver optimum performance and efficiency at all times.

SIGMA CONTROL 2

The SIGMA CONTROL 2 ensures efficient blower control and system monitoring. Numerous interface options enable fast, dependable communication with centralised control systems via data bus, whilst the SD card slot makes data storage and updates a breeze. SFC/OFC machines feature a choice of various operating modes.

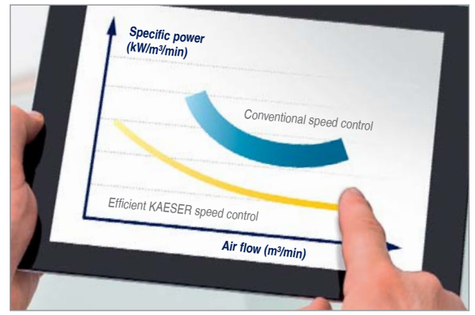
Comprehensive sensors

A wide range of sensors and switches for monitoring pressure, temperature, speed, oil level and filters ensures dependable blower operation and enables remote monitoring and visualisation of operational status.



Cool intake air

Process air and cooling air for the motor are drawn in separately from outside the enclosure. This boosts efficiency and leads to a higher usable air mass flow rate for the same power consumption. The blowers can operate at ambient temperatures up to +45 °C.



Optimised specific power

The moderate maximum speed, the extra dense screw profile and the near constant specific power across the wide variable speed control range all combine to achieve significant energy savings throughout the entire operating curve.

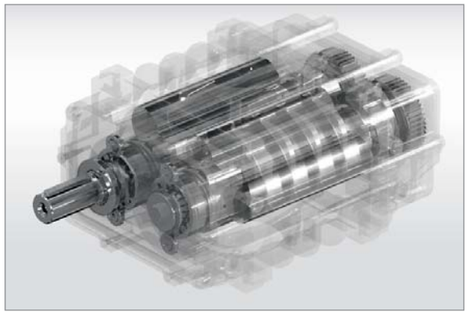
OMEGA

BB – HB series
Air delivery 1.5 to 74 m³/min, pressure differential
Gauge pressure to 1000 mbar,
Vacuum to 500 mbar

Rotary blowers

Pure reliability – OMEGA PROFILE

The special OMEGA Profile in KAESER's three-lobe rotary blowers makes these machines true masters of efficiency. The long-term dependability and durability of these units is legendary. This is attributed to design features such as the use of straight cut timing gears, heavy-duty cylinder roller bearings and precisely balanced rotors.

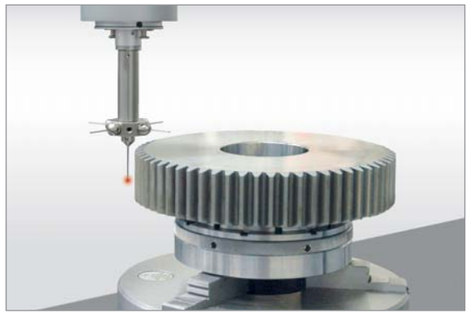


Durable OMEGA blower block

For pressures up to 1000 mbar(g), discharge temperatures up to 160 °C, wide control range with frequency-controlled operation, Q 2.5 rotor balancing for quieter operation, extended service life and minimal maintenance requirement.

Durable bearings

Heavy-duty cylinder roller bearings completely absorb the continuously changing radial gas-forces that are exerted on the cylinders. As a result, they avoid the springing effect of self-aligning bearings and last up to ten times longer with the same loading.



Precise synchronisation

High precision 5f 21 quality straight-cut timing gears have minimal flank clearance and a play major role in contributing to the block's outstanding volumetric efficiency. As the straight cut gearing is not subjected to continuously changing radial gas-forces, heavy-duty cylinder roller bearings can be used.

Stable rotors

The combination of precise Q 2.5 rotor balancing and single-piece rotor machining ensures quiet, vibration-free operation at all times. The rotor lobes are fitted with integrated sealing strips to provide added protection for the blower block against dust particles and thermal stresses.

Rotary blowers
Complete blower systems
BB-FB, OFC/STC version

KAESER's COMPACT series turnkey rotary blowers with OMEGA PROFILE rotors provide more than dependable, efficient performance. Delivered ready for immediate operation, these versatile units are equipped with star-delta starter (or frequency converter) and all necessary sensors are CE and EMC certified. As a result, they save considerable costs associated with planning, installation, certification, documentation and commissioning.

START CONTROL (STC)

The version with integrated Y-Δ-starter operates at constant speed and is equipped with a premium contactor, overload protection cut-out and phase loss monitoring. The SIGMA CONTROL 2 and a dependable emergency stop system round out the package.

Frequency control (OFC)

With OMEGA FREQUENCY CONTROL, the frequency converter adjusts blower performance to match required air demand. Everything is ready for immediate operation, since all programming and parametrisation is performed at the factory.

Plug and play

The turnkey blowers not only come complete with sensors, STC/OFC, SIGMA CONTROL 2 and emergency stop switch, but are also ready-filled with oil and are fully certified. This significantly reduces the work and costs required for planning, installation, certification, documentation and commissioning.

Complete system EMC certified

To ensure seamless integration into any operational environment, the electromagnetic compatibility (EMC) of all components and of the complete package has been tested and certified in accordance with all applicable regulations.

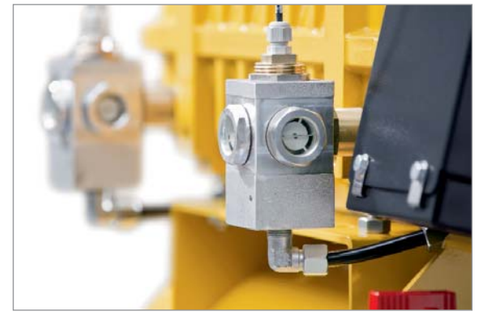
BB – HB Series
Air delivery 0.59 to 160 m³/min, pressure differential
Gauge pressure to 1000 mbar,
Vacuum to 500 mbar

Rotary blower packages:
BBC to HBC series

Efficient, quiet, durable and versatile – whether in use to convey bulk materials or as heeling dampers on a container ship – KAESER blower packages are renowned throughout the world for their impressive performance no matter what the application.

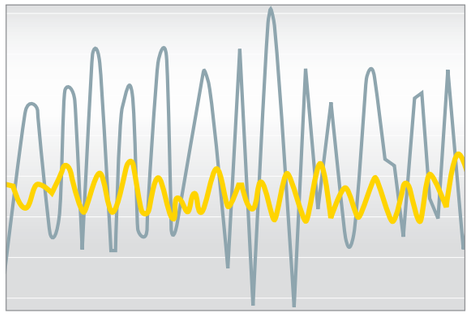
IE3 energy-saving motors

All KAESER blower packages are equipped with dependable, premium efficiency IE3 drive motors (IP55 protection, Insulation Class F). Their exceptional efficiency boosts overall system performance.



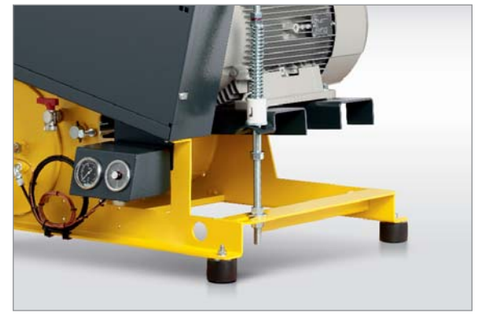
Sensors

Various sensors and switches for monitoring pressure values, temperatures, speed, oil level and filters ensure dependable and efficient blower operation and enable remote system monitoring.



Minimal pulsation and quiet operation

As pulsations from the conveying air can cause the connected pipework to generate noise; the sound-proofing on KAESER blowers is designed to minimise sound emissions from both the machine itself and from the conveying air. Moreover, highly effective discharge silencers have a wide frequency range to mitigate conveying air pulsation.



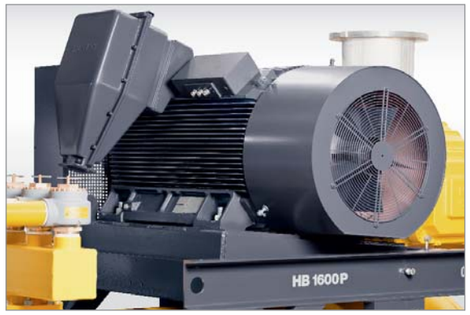
Automatic belt tensioning

Irrespective of motor weight, the pivoted motor base with tensioning spring automatically ensures optimum belt tension and, as a result, transmission efficiency. Consequently, this system also reduces servicing and maintenance costs.

HB-PI series
Air delivery up to 160 m³/min,
Gauge pressure to 1000 mbar,
Vacuum to 500 mbar

Super-class blowers:
HB-PI series – Large and versatile

KAESER's HB-PI series rotary blowers are the perfect choice for applications that require large air delivery volumes and maximum availability, such as in large water treatment plants, or in power generation stations. They are versatile, durable and dependable and, in combination with rapid-response KAESER Service, uninterrupted operation is guaranteed at all times.

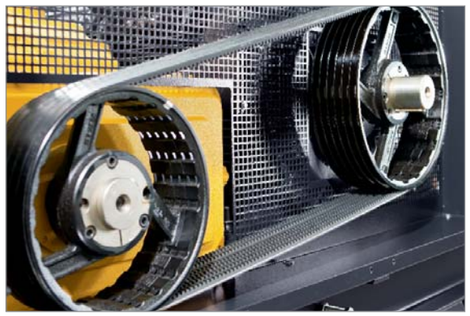


IE3 energy-saving motors

All KAESER blower packages are equipped with dependable, premium efficiency IE3 drive motors (IP55 protection, Insulation Class F). Medium-voltage motors can also be optionally used.

Frequency converter and Y-Δ starter

Special frequency converters and star-delta starters are also available for HB-PI series blowers. The OMEGA FREQUENCY CONTROL (OFC) enables infinite blower speed adjustment and, with the addition of a pressure sensor, also allows pressure regulation.



Dependable belt drive

The pivoted motor base and tensioning spring automatically ensure optimum belt tension and, as a result, transmission efficiency. Consequently, this system also reduces servicing and maintenance costs.

Cooling air flow

Outstanding cooling performance is assured, as the drive motor is equipped with its own cooling air intake and ambient air is used for the process air. This results in maximum efficiency and high capacity.

The **SIGMA CONTROL 2** internal controller and the **SIGMA AIR MANAGER 2** master control system work in tandem to optimise the availability and efficiency of compressed air stations. But there's more: The various communications channels enable seamless connection with centralised control systems, whilst their documentation functions make them indispensable tools for effective commercial energy management (and for certification as per **ISO 50001**).

Integrated Industry – Join the network

With the SIGMA CONTROL 2 and SIGMA AIR MANAGER 2, all blower stations can be seamlessly integrated into Industry 4.0 environments to enable continuous system optimisation through analysis of operating data and to provide demand-oriented preventative maintenance and servicing (Predictive Maintenance) through remote diagnostics.

Intelligence inside

SIGMA CONTROL 2 blower controller

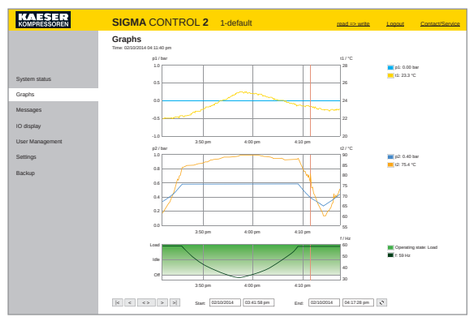
Using a range of sensors, the internal SIGMA CONTROL 2 blower controller monitors and controls all relevant machine and process parameters essential to reliable and efficient blower system operation. Available remote monitoring and control further enhance blower availability and efficiency. Versatile communication modules also enable SIGMA CONTROL 2 equipped blower packages to connect to master control systems, such as the SIGMA AIR MANAGER, and / or other centralised control systems via data bus.

The control centre

The control unit features an easy to read display and durable input keys, whilst the clear menu structure, together with 30 selectable languages, enables universal operation. Various operating modes are optionally available with SFC/OFC machines.

Stay connected

The Ethernet interface (10/100 MBbit/sec) allows users to call-up operational parameters on an Internet browser via the integrated web server. Optional communications modules: Modbus-RTU, Modbus/TCP, Profibus DP-VO, Device-Net and Profi-Net IO.



KAESER CONNECT

Simply connect a PC and the SIGMA CONTROL 2 (SC2) with the LAN and input the SC2 address and password in the browser. Once this is done, machine status, operating data, alarm messages, as well as graphical representation of pressure, temperature and speed can be viewed in real time.

Update and save

Software updates and operational parameters can be quickly uploaded and transferred via the convenient SD card slot. Service costs are therefore kept to an absolute minimum. Key operational data can also be stored on the SD card.

One-stop shop

Complete solutions from the systems provider

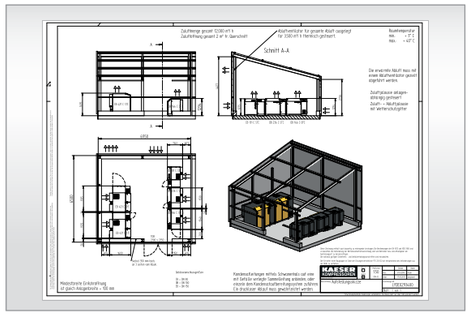
A business's blower air supply is far more than the sum of the necessary equipment and components, and by that token, as a comprehensive compressed air and blower air systems provider, KAESER KOMPRESSOREN provides far more than just machines. From detailed demand analysis and seamless integration of the blower station into the business environment, to life-long availability assurance through rapid-response KAESER AIR SERVICE, KAESER KOMPRESSOREN has all of your air needs covered

Precise demand analysis (ADA 2)

Using precise Air Demand Analysis (ADA) and the KAESER Energy Saving System (KESS), KAESER's experts are able to plan and design a system that is specially tailored to meet all of your blower air requirements and which will keep your air costs to an absolute minimum.

Fast, worldwide service

Since even the highest quality of machines requires regular maintenance, KAESER AIR SERVICE, with its specially trained service technicians and advanced logistics systems, ensures continuous blower air availability and reliable delivery of genuine KAESER spare parts throughout the world.



Detailed and expert planning

KAESER's experts meticulously plan and design a system that is tailored to meet the customer's specific blower air needs. Needless to say, this includes room ventilation and pipework, thereby ensuring peace of mind for users and project planners.

Optimum climate control

A holistic approach to the blower station also includes climate control. With expertise and components for optimum blower station climate control, KAESER blower systems always have the right amount of cool intake air available and therefore save energy through enhanced efficiency.

Advanced manufacture

For quality and performance

Manufacture to the most exacting tolerances ensures exceptional quality of mechanical and electrical components and ensures smooth interplay between all individual parts and systems. All components are precisely matched with one another are meticulously documented. The enables traceability and guarantees trouble-free spare parts supply at any time.

Rotor and block machining

Both rotors and blocks are precision machined to micron accuracy, so that the resulting surface quality makes wear-susceptible coatings used for sealing superfluous.

Measurement and inspection

To maintain the very best in product quality, we meticulously inspect and measure every block casing and rotor to ensure that it is manufactured to within the specified tolerances.

Powder coating

The enclosures receive their quality surface coating in an environmentally compatible 180 °C powder coating process. The result is a highly resilient scratch- and corrosion-resistant finish that provides exceptional protection even under the toughest conditions.

Case manufacture

Just like the rotors, the casing for every KAESER rotary blower block is machined using advanced climate-controlled CNC machining centres to ensure consistently high product quality.

Final inspection

All adjustments such as belt tensioning and alignment are carried out ex-works prior to delivery. Moreover, every blower block is delivered ready-filled with oil and all valves are adjusted. All data are documented.

Flexible production

The very latest production techniques and processes at KAESER's Gera plant ensure exceptional product quality and enable customer-specific requirements to be met with minimal lead time.

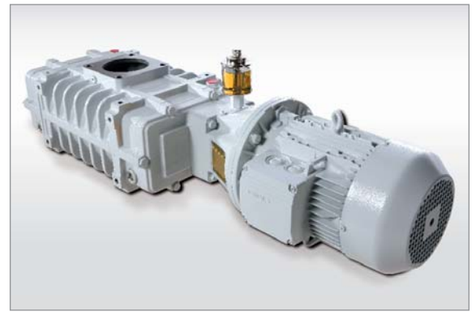
Special versions

For specialised applications

Whether used on a tanker lorry as a mobile unloading station, or for compression and / or conveying of media ranging from nitrogen to steam, KAESER blowers are always dependable and efficient OEM components.

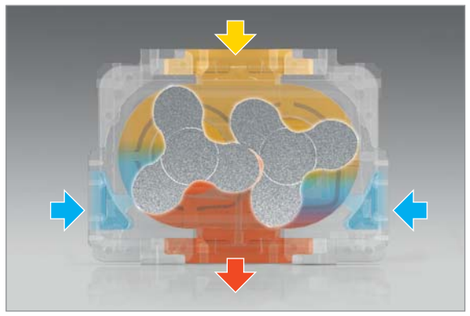
OMEGA B/PB – Corrosion resistant

Rotors and block casings made from cast chromium-nickel alloy and with special internal block-sealing are available for processes such as the compression of water vapour in vacuum distillation for the concentration of aqueous media, for example.



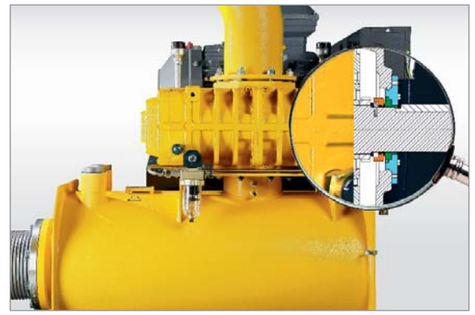
WVC series – Fine vacuum

WVC series machines with a volumetric flow rate of up to 6,800 m³/hr are suited for fine vacuum applications such as in pumping stations with a booster pump to increase their volumetric flow rate.



OMEGA PV – Low vacuum

With a suction capacity of up to 120 m³/min for low vacuum applications and a maximum of 900 mbar differential pressure, the OMEGA PV blower block is exceptionally robust. Able to produce both vacuum and pressure via selective switching of the process lines, these blowers are particularly well suited for tanker lorries. The block is cooled with ambient air via the pre-inlet cooling ports.



OMEGA PN: Nitrogen conveying

These blowers are ideal for pneumatic conveying of bulk materials under nitrogen atmosphere conditions, where leakages of any kind need to be kept to an absolute minimum. PN series blowers are also available with wear-free slide ring sealing of the drive shaft rotary feedthrough. Complete systems with OMEGA PN blocks are available for nitrogen conveying applications.

Accessories

For a wide range of applications

A wide range of applications often require a specific air quality: For example, some materials are sensitive to heat, whilst others may clump if humidity is too high. Another potential problem is contamination of the blower air by particles in the ambient air. As one of the world's leading system providers, KAESER has a wide range of coolers, dryers and filters designed to cope with these and many other instances. Decades of experience in air generation and treatment also enable KAESER's experts to precisely match each individual component to achieve optimum system performance. Furthermore, the SIGMA AIR MANAGER enables the flow rate of every blower station to be specifically tailored to meet actual air demand, thereby ensuring maximum energy efficiency.

Co-ordination

Depending on the model, the SIGMA AIR MANAGER control system is able to co-ordinate operation of 4, 8 or 16 blowers within a blower installation and ensures even load distribution between the units.

Heat exchanger

Easily integrated into process control systems, the heat exchanger enables exceptional process-air cooling even at high ambient temperatures. The hot water produced as a result of this process can be used for other purposes.

Cooling

At an ambient temperature of 20 °C, the highly efficient ACA type aftercooler is able to reduce temperature to 30 °C whilst perfectly maintaining pressure.

Drying

KAESER's intake air desiccant dryers reduce the pressure dewpoint of process air with minimum differential pressure, thereby preventing condensate formation.

The operating environment

Carefully matched components, such as weather protection screens, fans, inlet / discharge silencers and appropriate air ducting, help to ensure and maintain optimum operating conditions in the machine room at all times.

Outdoor installation

COMPACT blowers are often installed outdoors in many water clarification plants. These blower packages come equipped with rainproof stainless steel covers and premium powder-coated enclosures for effective protection against the elements.

Screw blowers – EBS-FBS STC/SFC series

Up to 110 kW, ready-to-run with integrated electrical equipment

Model	Gauge pressure			Vacuum			Pipe connection	Dimensions with control cabinet and sound enclosure W x D x H	Weight max.
	Max. differential pressure	Max. air delivery *	Max. rated motor power	Max. differential pressure	Max. intake capacity	Max. rated motor power			
	mbar (g)	m³/min	kW	mbar (vac)	m³/min	kW	DN	mm	kg
EB 380S L	650	38	45	–	–	–	150	1940 x 1600 x 1700	1400
EB 380S M	1100	37	75	550	37	37			1600
FB 660S L	650	67	90	–	–	–	200	2250 x 1950 x 1900	1850
FB 660S M	1100	66	110	–	–	–			2200

*) Performance data as per ISO 1217, Appendix C for STC version, Appendix E for SFC version

Compact blowers – BBC-FBC STC/OFC series

Up to 132 kW, ready-to-run with integrated electrical equipment

Model	Gauge pressure		Vacuum		Max. rated motor power	Pipe connection	Dimensions with control cabinet and sound enclosure W x D x H	Weight max.
	Max. differential pressure	Max. air delivery *	Max. pressure differential	Max. intake capacity				
	mbar (g)	m³/min	mbar (vac)	m³/min	kW	DN	mm	kg
BB 69 C	1000	5.9	500	5.9	15	65	1210 x 960 x 1200	455
BB 89 C	1000	8.2	500	8.3	15	65	1210 x 960 x 1200	461
CB 111 C	800	8.8	400	8.9	18.5	80	1530 x 1150 x 1290	583
CB 131 C	1000	12.3	500	12.4	30	80	1530 x 1150 x 1290	642
DB 166 C	1000	15.6	500	15.7	37	100	1530 x 1150 x 1290	802
DB 236 C	1000	22.1	500	22.3	45	100	1530 x 1150 x 1290	822
EB 291 C	1000	28.6	500	28.8	75	150	1935 x 1600 x 1700	1561
EB 421 C	1000	40.1	500	40.4	75	150	1935 x 1600 x 1700	1606
FB 441 C	1000	41.3	500	41.6	90	200	2230 x 1920 x 1910	2326
FB 621 C	1000	58.5	500	58.9	132	200	2230 x 1920 x 1910	2839
FB 791 C	800	71.3	500	71.8	110	250	2230 x 1920 x 2090	2541

*) Performance data as per ISO 1217, Appendix C for STC version, Appendix E for OFC version

Blower packages – BBC-HBPI series

Up to 250 kW

Model	Gauge pressure		Vacuum		Max. rated motor power	Pipe connection	Dimensions without sound enclosure W x D x H	Weight max.	Dimensions with sound enclosure W x D x H	Weight max.
	Max. differential pressure	Max. air delivery *	Max. differential pressure	Max. intake capacity						
	mbar (g)	m³/min	mbar (vac)	m³/min	kW	DN	mm	kg	mm	kg
BB 52 C	1000	4.7	500	4.7	7.5	50	785 x 635 x 940	140	800 x 790 x 1120	210
BB 69 C		5.9		5.9	11	65	890 x 660 x 960	195	960 x 780 x 1200	325
BB 89 C		8.2		8.3	15	65	890 x 660 x 960	201	960 x 780 x 1200	331
CB 111 C	800	8.8	400	8.9	18	80	855 x 1010 x 1290	263	990 x 1160 x 1290	443
CB 131 C	1000	12.3	500	12.4	30	80	855 x 1010 x 1290	302	990 x 1160 x 1290	482
DB 166 C	1000	15.6	500	15.7	37	100	990 x 1070 x 1120	432	1110 x 1160 x 1290	632
DB 236 C		21.1		22.3	45	100	990 x 1070 x 1120	482	1110 x 1160 x 1290	682
EB 291 C	1000	28.6	500	28.8	75	150	1240 x 1370 x 1510	921	1420 x 1600 x 1659	1261
EB 421 C		40.1		40.4	75	150	1240 x 1370 x 1510	966	1420 x 1600 x 1659	1306
FB 441 C	1000	41.3	500	41.6	90	200	1790 x 1450 x 1750	1450	1920 x 1620 x 1910	1960
FB 621 C		58.5		58.9	132	200	1790 x 1450 x 1750	1865	1920 x 1620 x 1910	2375
FB 791 C	800	71.3	450	71.8	110	250	1870 x 1450 x 1900	1717	1920 x 1620 x 2090	2247
HB 950 C	1000	93.1	500	91.65	200	250	1700 x 1700 x 1950	3005	2170 x 1864 x 2110	3805
HB 1300 PI		125		122.93	250	300	2710 x 1600 x 2350	3465	3205 x 2150 x 2610	4285
HB 1600 PI	800	156	450	153.27	250	300	2710 x 1600 x 2350	3625	3205 x 2150 x 2610	4445

*) Performance data as per ISO 1217 Appendix C


EBS 380L
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HPC Compressed Air Systems

HPC Compressed Air Systems, Victoria Gardens, Burgess Hill, West Sussex RH15 9RQ
Tel: 01444 241671 **Fax:** 01444 247304 **E-Mail:** info@hpcplc.co.uk **www.hpccompressors.co.uk**