



KOMBERG®

Direct Drive screw compressors, Oil free compressors and more...

Quality product
Excellent service



Oil-injected Screw Compressor

KOMPBERG® BSD

Our screw compressors are the most modern and economical way of compressed air generation in the medium range these days.

Highly economical, long lifespan, easy and cost-effective maintenance are the most important criteria in the development of our new screw compressor products.

KOMPBERG® made from different effective parts:

- Large convenient and removable doors are fitted as standard on BERG Screw compressors and the housing provides adequate space for the convenient layout of the components.
- Reliable Direct drive, heavy-duty and consistently efficient.
- BERG design principles prevent reduced output and premature wear in this essential drive component.
- using the famous German components as well as high quality German filters, Siemens electro motor and controller.

All Our Compressors are equipped as Direct Drive

Drive 1:1 means that the Airend and motor are directly connected. This means that there are no transmission losses. BERG's direct drive screw compressors deliver outstanding performance and make possible great savings in energy.

The drive motor and the air end in one-to-one drive series compressors are designed to operate at the same low speed. This enables the drive and compression



Multiple oil pre-separation filtration and low foam formation guarantee compressed air quality.

- Reliable centerpiece Airend as the most recent stage in the development of production techniques guarantee the supreme precision of rotor gears.
- A distortion-resistant sound isolation box reduces vibration and noise to extremely low levels.
- BERG electronic control Siemens PLC can increase safety and fewer costs.

units to be linked via a maintenance-free coupling which avoids the transmission losses with gear-driven units. our direct drive compressor reduces the number of components needed in comparison with gear drive, significantly increasing reliability and service life. Sound levels are also considerably lower.

The airend in each KOMPBERG® BSD model is designed to specifically match air demand and ensures outstanding efficiency through the low-speed operation.

KOMPBERG® Direct Drive advantages:

- No transmission losses
- Larger air ends running at low speeds are more efficient
- Drive lowers maintenance costs

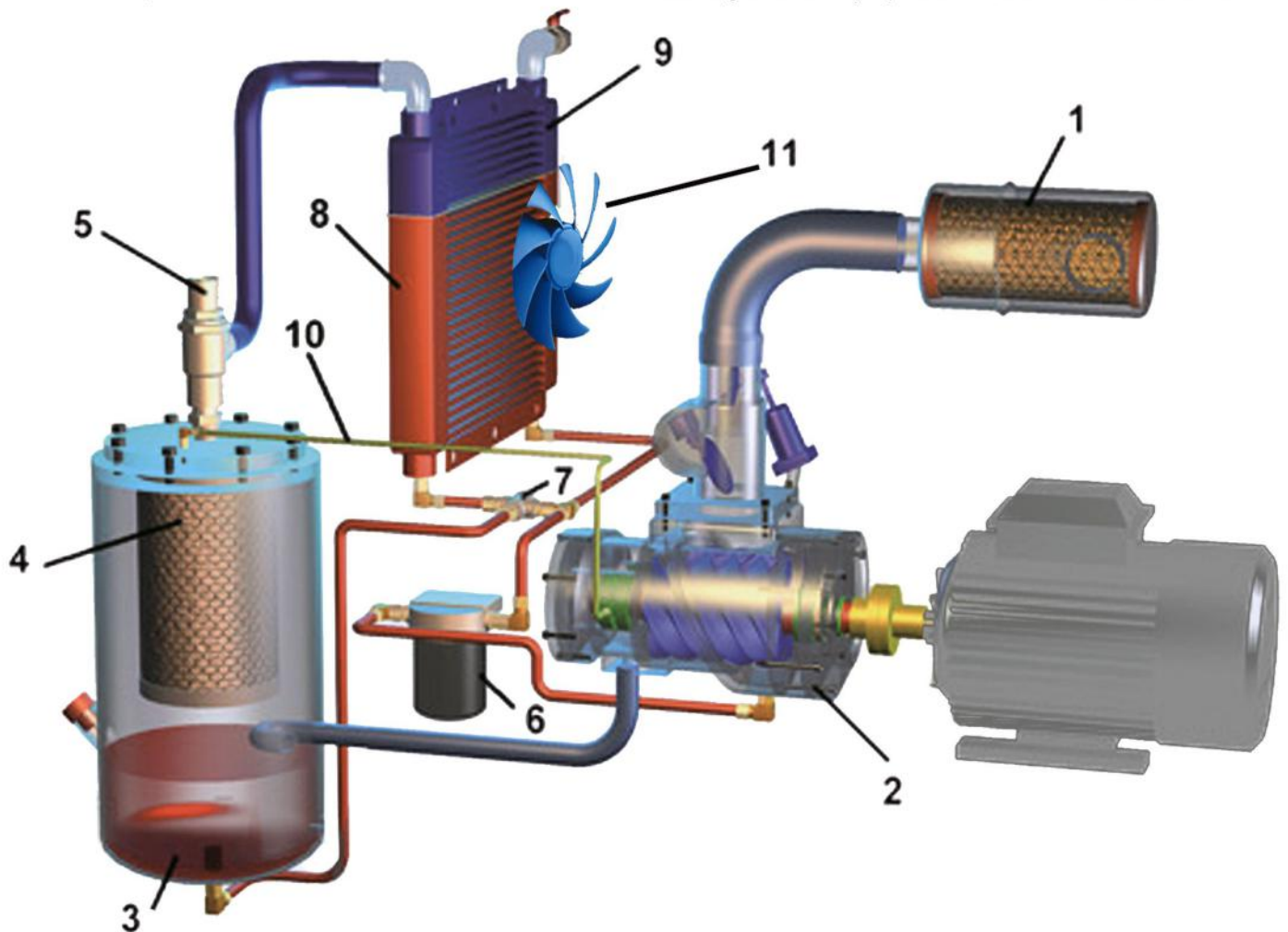
Principle Operation of KOMPBERG® Screw Compressors

Ambient air is sucked through the filter (1) then it flows through the suction regulator equipped with the variable control valve adapting to prompt demand for compressed air. The suction regulator operation is controlled by the electrical unit connected to the pressure sensor. Oil previously treated in the filter (2) is injected into the air compressed in the screw air end (3). The oil ensures lubrication, sealing and cooling of the screw air end. The oil and air mixture is compressed in spaces between the screw impellers and then flows into the oil

separator tank (4), where most of the oil is precipitated from the mixture.

From the separator tank, air flows through the fine filter (5), minimum pressure valve (6), to the after cooler (7), where it is cooled to a temperature 10°C higher than the ambient temperature.

The oil collected in the oil separator is carried away with the pipe (8) to the screw air end. The oil flow through the after cooler (9) is controlled by the thermostat (10). The suction and oil filters are equipped with the pollution sensors. The airflow through the fan (11) tries to cool the after cooler.



Oil-injected Screw Compressor

KOMPBERG® BSD

BERG has 1:1 direct drive screw compressors that named KOMPBERG® BSD series.

An innovative, user-friendly concept totally geared to performance and economy.

Direct drive 1:1

The most efficient drive option, where the screw unit is coupled directly to an electric motor, using the flexible coupling. Owing to such a solution, there are no energy losses when torque is transferred from the motor to the block. Power consumption is considerably reduced.



- 1- Direct drive – soft start, almost zero loss power transmission
- 2- Airend – efficient and effective to the highest standards
- 3- Electric motor – economical and robust Siemens motor
- 4- Cooler unit – large surface area, highest performance, and effectiveness for quieter running
- 5- Controller – intelligent, fast response with full digital monitoring from Siemens
- 6- Control cabinet – optionally with integrated, energy-saving Siemens frequency converter
- 7- Separation system – guarantee's 100% compressed air quality
- 8- Oil circuit – works efficiently with long maintenance intervals

Centrifugal fan

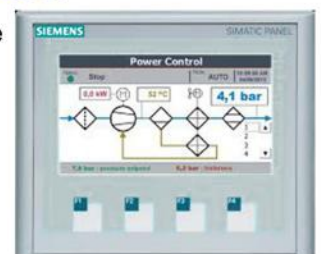
The high-efficiency fan with a higher compression ratio ensures effective cooling throughout the entire compressor operation time. High compression ratio ensures an appropriate, even flow of sucked ambient air, through the cooler, also in the case of cooler fouling. Centrifugal fan is driven by low-speed electrical motor, which considerably influences the compressor noise level.

Effective cooling system

Suitably selected air coolers with the carefully thought out airflow system enable the compressors to operate out airflow system enables the compressors to operate at ambient temperature up to 45°C and ensure appropriate compressed air cooling.

Monitoring and supervising of individual compressor

MS Connect provides the remote work monitoring, supervision and changing of the basic operating parameters of the screw compressor equipped with the Siemens controller. Software is designed for installation on PCs of people responsible for maintaining work continuity and managing the operation of compressors.



BSD Advantages

- 2-year fully functional guarantee
- Direct drive one-to-one
- Screw compressor unit heavy-duty up to the first reworking of bearings ranges to 40.000 bis 50.000 h.
- High quality of compressed air – only 5ppm of oil and 10°C above ambient temperature at the compressor outlet.
- The Sound absorbing case makes it possible to place the compressor in the production hall
- Energy-saving properties result from a high energy efficiency
- Low operating costs are achieved thanks to competitive prices of materials and technical supports
- Comprehensive application – from mechanical engineering through food and drink industries up to the Pharmaceutical industry Easy-to-operate control PLC



Synthetic oil - longer periods between inspections

The BERG synthetic oil helps to maintain the constant compressed air delivery necessary for efficient system operation by, among other things, over five times faster air removal and over two times faster water separation by oil.



Technical Data of screw compressor KOMPBERG® BSD

| Model | Capacity min-max [m3/m] | | | Dimension (LxWxH) | Power transmission system | Noise level | motor power | Air connection |
|---------|-------------------------|--------|--------|-------------------|---------------------------|-------------|-------------|----------------|
| | 7,5 bar | 10 bar | 13 bar | [mm] | | [dB] | [kW] | |
| BSD 30 | 5.3 | 4.4 | 3.3 | 1000x1170x1467 | direct drive | 76 | 30 | G 1 1/2 |
| BSD 37 | 6.4 | 5.4 | 4.8 | 1000x1170x1467 | direct drive | 76 | 37 | G 1 1/2 |
| BSD 45 | 7.7 | 7 | 5.8 | 1060x1350x1570 | direct drive | 76 | 45 | G 1 1/2 |
| BSD 55 | 9.9 | 8.5 | 6.6 | 1060x1350x1570 | direct drive | 76 | 55 | G 1 1/2 |
| BSD 75 | 12.9 | 11.3 | 9.3 | 2800x1415x1720 | direct drive | 76 | 75 | G 2 |
| BSD 90 | 15.9 | 13.7 | 11.8 | 2800x1415x1720 | direct drive | 83 | 90 | G 2 |
| BSD 110 | 19.3 | 16.9 | 14.2 | 2550x1485x2130 | direct drive | 83 | 110 | G 2 |
| BSD 132 | 23 | 20.6 | 16.6 | 3300x1600x1800 | direct drive | 83 | 132 | G 2 1/2 |
| BSD 160 | 30 | 24.6 | 22.7 | 3300x1600x1800 | direct drive | 83 | 160 | G 2 1/2 |
| BSD 200 | 34.7 | 31.1 | 26.2 | 4000x1900x2180 | direct drive | 85 | 200 | DN 100 |
| BSD 250 | 40 | 36 | 30 | 4000x1900x2180 | direct drive | 85 | 250 | DN 100 |

Oil-injected Screw Compressor with Frequency Inverter

KOMPBERG® BSDF

KOMPBERG BSDF range, from 30 to 250 kW, are based on BERG's standard BSD series.

Frequency Control series compressors from BERG are exceptionally efficient variable speed screw compressors with Siemens inverter as well as energy-saving Siemens Controller provide outstanding performance throughout the entire control range. All BSDF Compressors model is capable of 100 % duty cycles without any additional maintenance required. These screw-type compressors have High economic efficiency, long service life, simple and cost-effective maintenance.

Why BERG Frequency Control Compressors?

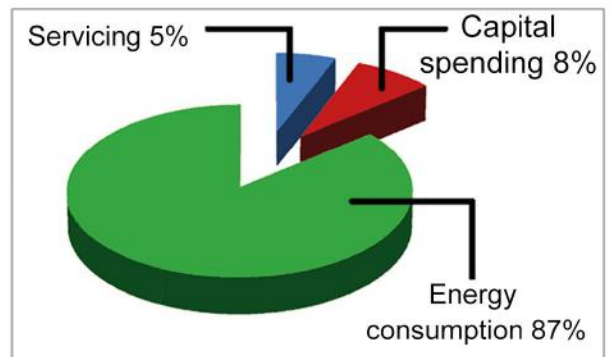
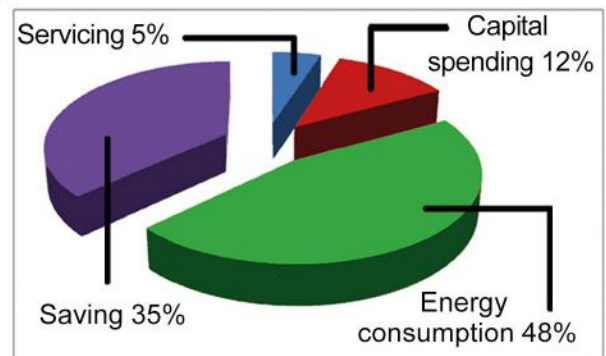
- Energy saving up to 35%
- Low fatigue
- Pressure optimization
- Reduction of discharge losses
- Lower power consumption leads to reduced CO₂

Standard Compressor:

The energy costs after ten years amount to 87% of the total costs incurred by a conventional compressor.

Compressor with VSD.

It is possible to save up to 35% on energy costs by using KOMPBERG BSDF, Which is developed by BERG



Ultimate Efficiency with Our BSDF

Ultimate Efficiency with our BSDF significantly increases reliability and service life, Direct drive reduces the number of components needed and eliminates the associated transmission losses. Sound levels are also considerably lower.

Operation safety

The frequency inverter is located in the separate and effectively cooled switchgear, which ensures good ventilation and protection against an influence of heat emitted by the compression module operation.

KOMPBERG® BPDF Advantages

- Compact Airends eliminating pipework and links with known sources of problems.
- Efficient noise-insulated canopy and multiple anti-vibration mountings.
- Door panels are easily removed allowing ease of access to the individual components for servicing.
- Use of high-quality standard components and maintaining and offering flexibility in the event of faults.

We use the reliable supplier for inverters:

SIEMENS

inverters have been amazingly reliable workhorses for over 25 years and no competitor drive can boast a track record like that. The Siemens inverters are microprocessor-controlled and use state-of-the-art Insulated Gate Bipolar Transistor (IGBT) technology. This makes them reliable and versatile.

Even higher saving

Faster return on investment

- Higher motor efficiency up to 70%, further reduces the peripheral equipment losses connected with compressed air production
- Depreciation even in 4 months (in continuous running), and on average within 9 months from purchase
- A1000 series inverter
- Asynchronous motor with the highest efficiency IE4 class
- Even higher environmental protection



Technical Data of screw compressor KOMPBERG® BPDF

| Model | Capacity min-max [m3/m] | | | Dimension (LxWxH) | Power transmission system | Noise level | motor power | Air connection |
|----------|-------------------------|-------------|-------------|-------------------|---------------------------|-------------|-------------|----------------|
| | 7,5 bar | 10 bar | 13 bar | [mm] | | [dB] | [kW] | |
| BPDF 30 | 1.7 - 5.3 | 1.5 - 4.4 | 1.2 - 3.3 | 1740x950x1500 | Direct drive | 75 | 30 | G 1 1/2 |
| BPDF 37 | 1.6 - 6.4 | 1.6 - 5.4 | 1.6 - 4.8 | 1740x950x1500 | Direct drive | 75 | 37 | G 1 1/2 |
| BPDF 45 | 2.4 - 7.7 | 2.5 - 7 | 2 - 5.8 | 2000x1100x1580 | Direct drive | 75 | 45 | G 1 1/2 |
| BPDF 55 | 2.6 - 9.9 | 2.5 - 8.5 | 2.3 - 6.6 | 2000x1100x1580 | Direct drive | 75 | 55 | G 1 1/2 |
| BPDF 75 | 4.6 - 13.6 | 3.6 - 12.3 | 3.5 - 9.4 | 2200x1500x1675 | Direct drive | 75 | 75 | G 2 |
| BPDF 90 | 4.6 - 16.2 | 4.2 - 13.6 | 3.4 - 11.4 | 2550x1485x2130 | Direct drive | 83 | 90 | G 2 |
| BPDF 110 | 9.6 - 19.2 | 8.4 - 16.9 | 7 - 14.1 | 2550x1485x2130 | Direct drive | 83 | 110 | G 2 |
| BPDF 132 | 11.5 - 23 | 10.2 - 20.5 | 8.3 - 16.5 | 3300x1600x1800 | Direct drive | 83 | 132 | G 2 1/2 |
| BPDF 160 | 15 - 30 | 12.3 - 24.5 | 11.3 - 22.6 | 3300x1600x1800 | Direct drive | 83 | 160 | G 2 1/2 |
| BPDF 200 | 17.3 - 34.6 | 15.5 - 31 | 13 - 26.1 | 4000x2100x2200 | Direct drive | 85 | 200 | DN 100 |
| BPDF 250 | 20 - 40 | 18 - 36 | 15 - 30 | 4000x2100x2200 | Direct drive | 85 | 250 | DN 100 |

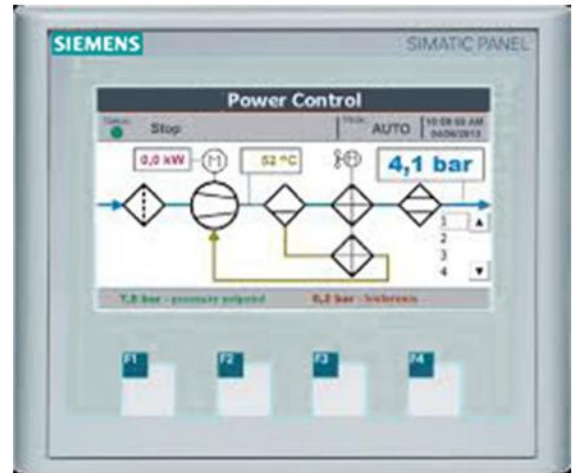
BERG CONTROLLER

The SIEMENS controllers are mostly supplying for BERG based on modern technologies (microprocessor with the Cortex core), meet the recent industrial requirements with simultaneous minimum power consumption and correct, failure-free compressor operation.

Easy to read display, information diodes and clear keyboard provides easy and fast configuration of operating parameters, diagnosis of the compressor operation state, as well as an operation mode selection.

THE LEDS ON THE CONTROLLER INFORM THE OPERATING PERSONNEL ABOUT:

- Compressor operation mode,
- Motor operation status,
- Occurrence of any events
- User friendly worldwide



The intelligent algorithm for automatic control of the motor idle running time - AutoTlse, limits considerably the power consumption.

Possibility of selecting the operation mode and precise programming of the compressor operation time according to calendar and time needs, which additionally provides the economical machine operation.

The extended supervision and self-control mode that monitors the most important compressor and motor parameters and reminds of worn mechanical consumables and service dates.

The event identification mode that signals the event occurrence with suitable messages.

The circuit-breaker and overvoltage protection systems used in the power supply circuit.

The short-circuit detection module in the 24VDC circuit, prevents damage of the controller electronic elements (in MS-585, MS-587FRQ and Siemens 1200).

Possibility of co-operation with the external power supply asymmetry and phase sequence monitoring module ASKF3B or two-state power supply monitoring module.

when a phase is missing or phase sequence is incorrect, an error message will prevent the compressor from starting, protecting it against damage.

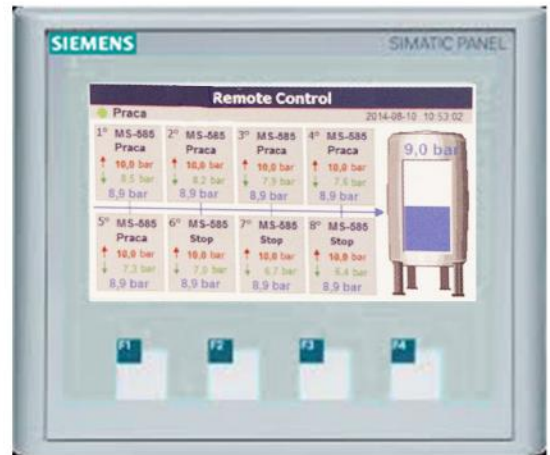
For sure enhanced communication capabilities: Modbus, CanOpen, Ethernet.

BERG MASTER CONTROLLER FOR GROUP OF SCREW COMPRESSORS

BERG MASTER CONTROLLER

Additional feature of the RC-S series master controllers that provide to duplicate the operator panel onto a PC or mobile devices.

this feature can be implemented in both new controllers and the controllers that are already used to control a specific group of compressors.



Master control unit RC is responsible for :

- Control of the start and stop system of the compressors installed in one compressed air network,
- Monitoring and ensuring correct pressure in the system,
- Optimum load distribution between individual compressors,
- Possibility of selecting the leading compressor,
- Setting pressure start and stop thresholds,
- Entering the parameters of the system regulation,
- Collection of information from the supervised system and its processing, and all signaling (in RC-S)
- Remote monitoring of the supervised system status by means of the installed interface operated in the web browser or/and by means of the Modbus TCP communication protocol (in Modbus RTU option via RS485),(in RC-S).



The use of the RC- control unit of the compressor group eliminates the necessity of the machine operator intervention into settings and enables equal load distribution between compressors.

Control of the screw compressor group is possible in the Sequence or cascade mode.

√ The sequence control is recommended for the compressors of comparable size.

Their operation time is usually equalized.

√ The cascade control is dedicated to the machines of different sizes, where the one operates in a continuous way and the others operate only during peak demands for compressed air.



Oil Free Screw Compressor 55-132 KW, Air-Cooled

KOMPBERG® ZX / ZXF

BERG is expert in designing and manufacturing the most reliable oil-free screw compressors.

ZX series is the exquisite rotary screw compressors to come out of this strong tradition, with Two Stage and AirCooled system. The ZXF offers a robust design and low operating cost to industries where high-quality oil-free air is a key solution.

BERG Kompressoren has achieved a new milestone:

Setting the standard for air purity as a German enterprise who to be certified ISO 8573-1 CLASS 0.

Each machine is tested to ensure it meets specific actions, complete security, and no surprises.

The ZXF oil-free compressors are truly easy to operate, and no inconvenience for maintenance.

100% OIL-FREE AIR

Our oil-free compressors deliver oil-free air.

Whether your activities are in pharmaceutical production, food processing, critical electronics or a similarly exacting industry, it is essential to eliminate risk.

That's why you need a KOMPBERG® ZXF risk-free solution: oil-free screw compressors especially for applications demanding the highest levels of purity. Zero oil, Zero risks of contamination.

Zero risks of damaged or unsafe products, Zero risks of losses from operational downtime.



ZXF Advantages

- Robust and unique design
- Low-noise and low-vibration design
- Easy installation Safe and reliable
- SIEMENS electromotor and inverter
- Advanced SIEMENS control and monitoring
- High quality inlet/blowdown valve
- Zero loss electronic drains
- Low maintenance cost
- Compression Elements
- Low transmission losses
- easy to maintain air filter
- minimum intake losses
- Stain Steel components and piping



ZX Technology

World class oil-free compression element

- 100 % oil-free rotary screw compression
- High quality compressed air
- Low speed to capacity ratio
- High overall efficiency with superior rotor coating and element cooling jackets
- No oil disposal problems downstream as air is completely oil-free
- Two compression stage with Air cooled system



Technical Data of Oil free screw compressor

| Model | Capacity [m3/m] | | Weight [kg] | Dimension (LxWxH) [mm] | Compressed air connection [dB] | Cooling air deman [m ³ /h] | Nominal motor power [kW] |
|---------|-----------------|--------|----------------|------------------------------|---|--|-----------------------------------|
| | 8 bar | 10 bar | | | | | |
| ZXF 55 | 7.9 | 6.6 | 3470 | 2500 x 1400 x 2000 | G 1 1/2 | 16500 | 55 |
| ZXF 75 | 12 | 9.7 | 3770 | 2800 x 1600 x 2000 | G 2 | 16500 | 75 |
| ZXF 90 | 12 | 12 | 3270 | 2800 x 1600 x 2000 | G 2 | 11700 | 90 |
| ZXF 110 | 18 | 15.7 | 4370 | 3300 x 2200 x 2000 | G 2 | 25000 | 110 |
| ZXF 132 | 21.2 | 19 | 4600 | 3400 x 2100 x 2400 | G 3 | 19500 | 132 |

Water-injected Oil Free Screw Compressor 68–120 kW, Water-Cooled

KOMPBERG® ZWF

ZWF oil-free, water-injected screw compressors are a perfect fit for all applications that require clean compressed air.

There is absolutely no risk of oil contamination and resulting production downtime 100% oil-free compressed air is one of the competitive advantages of these screw compressors.

BERG water-injected screw compressors of the ZWF ranges, available from 68 to 120 kW, have been developed to ensure economic production of oil-free compressed air.

A special feature of these compressors protected by utility patent is reflected by the fact that compressor oil usually applied for cooling, sealing and lubrication has been completely banished from the process of compression.

Water Treatment System!

Full water treatment has been integrated into the compressor system by means of a mixed-bed ion exchanger and a water filter.

This makes sure that the circulation water is always of high quality with consistent lubrication and cooling properties. There are no calcium deposits, since all free ions are bound. Continuous monitoring of water quality in water injected machines is crucial and therefore a standard procedure for a ZWF range compressor.

Energy savings: Compressors with variable speed control.

The ZWF series is characterized by quality and efficiency.

KOMPBERG® ZWF screw compressors with variable speed control are designed for tough industrial applications.

They come with the intelligent control and monitoring system.

Variable speed control

Often strong fluctuations of air demand cannot be avoided. In such cases BERG screw compressors with variable speed control guarantee a cost-efficient, steady flow of compressed air according to current demand.

The compressor performance matches the actual need for compressed air thanks to variable speed control.

This guarantees economic operation. The frequency converter is firmly mounted inside the switch cabinet.

Advantages:

- High energy efficiency due to design features, components and equipment options such as variable speed control and heat recovery
- High-quality tested compressed air quality due to 100% oil-free production with quality certificate
- Quiet thanks to low speeds
- Uniform, low-pulsation compressed airflow due to infinitely variable compression in the screw air end
- Low operating and maintenance costs thanks to lower temperature progression
- Low space requirement due to compact design
- Consistently high water quality in the circuit due to integrated water treatment
- User-friendly due to functional and clearly arranged instrumentation panel
- Easy to maintain and control thanks to removable side doors and easily accessible maintenance areas



The oil has been replaced by the most natural of all raw materials: water. Being an ideal heat carrier, water takes away the heat of the compression process and thus ensures low temperatures in the system.

The advantage of low temperatures is a nearly isothermal compression which is extraordinarily cost-efficient at high free air delivery.

Optimum use of energy: BERG screw compressors with variable speed control

- use of an efficient control system for compressors
- use of heat recovery systems
- use of advanced compressed air piping systems without leakage
- regular service by factory-trained service technicians

The design of ZWF compressors guarantees easy access to all maintenance relevant components.

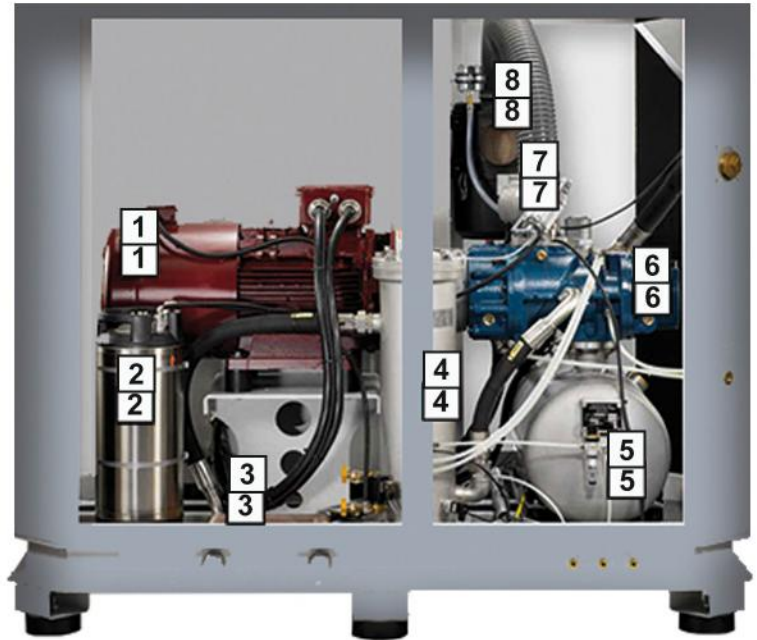
The side covers are detachable to provide excellent access to all maintenance points. Furthermore, the cost of maintenance is reduced by the low number of movable parts.

Many food industry and pharmaceutical clients come in contact with compressed air and will therefore, be tested for hydrocarbons by quality control. Oil-free BERG compressors eliminate the danger of contamination. Risk minimization and operational safety are essential, economic advantages of the ZWF range.

Easy to service

- short service times, long service intervals
- low maintenance cost
- excellent accessibility
- easily detachable covers

- 1- High-efficiency IE3/IE4 motor
- 2- Mixed-bed ion exchanger
- 3- Heat exchanger
- 4- Water filter
- 5- Water separator
- 6- Air end
- 7- Intake control
- 8- Air filter



Technical Data of KOMPBERG® ZWF

| Model | Capacity [m3/m] | | | | Dimension (LxWxH) [mm] | Connection | Weight [kg] | Motor power [kW] |
|---------|-----------------|------------|------------|------------|---------------------------|------------|----------------|---------------------|
| | 6 bar | 8 bar | 10 bar | 13 bar | | | | |
| ZWF 68 | 1.6 - 11.3 | 1.6 - 11.2 | 1.6 - 10.3 | - | 2060x1260x1732 | G 2 | 1650 | 68 |
| ZWF 85 | 1.6 - 12.4 | 1.6 - 12.4 | 1.6 - 12.2 | 1.6 - 10.2 | 2060x1260x1732 | G 2 | 1750 | 85 |
| ZWF 120 | 3.4 - 20.6 | 3.4 - 20.3 | 3.4 - 17.7 | 3.4 - 15.4 | 2525x1571x1832 | G 2 1/2 | 2390 | 120 |

STATIONARY SCREW COMPRESSORS

Common parameters of the series:

- energy saving
- high efficiency
- no gearbox or belt transmission
- energy optimized cooling system
- reliability – reduction number of components and usage of integrated parts
- very low vibrations
- low noise level
- low speed machine – life time of up to 80 000 working hours

We are using a large low speed air end for relative small compressors. The electric motor is directly coupled to the main air end rotor, which essentially reduces the maintenance cost, in contrast with the belt driven compressor or a compressor with gearbox.



Compressor output is controlled either by an on/off switch, depending on the pressure in the air chamber or by classic suction regulator with a new control system depending on the pressure level, or possibly by advanced continuous regulation of operation, which optimizes the machine's performance parameters in real time by smoothly changing revolutions depending on the volume of discharged compressed air.

Open machines without canopy

The BERG screw block is of robust construction and is designed with a power reserve.

The machines BSDK5 - BSDKF 7 work at very low speeds and are therefore very quiet. These machines can be operated without canopy. The open version offers excellent service access.

Closed machines with canopy

Machines from 11 kW are delivered with a steel canopy. It acts as sound muffler and also directs the flow of cooling air that removes heat from the compressor. The compressor is thus protected against overheating. The canopy can be easily connected to the air ducting and allows unrestricted service access.

Technical Data KOMPBERG® BSDK | BSDKF 5 - 20 kW

| Model | Nominal air capacity | Over pressure | Electric motors | receiver | Noise level | Compressed air Connection | VSD | Weight | Dimmensions |
|----------|----------------------|---------------|-----------------|----------|-------------|---------------------------|-----|--------|---------------|
| | m ³ /min | bar | [kW] | l | dB [A] | | | | |
| BSDK 5 | 0,87 | 9 | 5,5 | 270 | 68 | G 1/2 | - | 200 | 1480x450x1380 |
| BSDKF 7 | 1,5-1,1 | 6 - 9 | 7,5 | 270 | 64 | G 1/2 | Ja | 210 | 1480x450x1380 |
| BSDKF 11 | 1,9-1,1 | 6 - 10 | 11 | 500 | 64 | G 1/2 | Ja | 220 | 1480x450x1380 |
| BSDKF 13 | 2,3-1,8 | 6 - 10 | 13 | 500 | 63 | G 3/4 | Ja | 380 | 1955x764x1451 |
| BSDKF 15 | 2,4-1,6 | 6 - 10 | 15 | 500 | 63 | G 3/4 | Ja | 430 | 1955x764x1451 |
| BSDKF 20 | 3,3-1,8 | 6 - 10 | 20 | 500 | 63 | G 3/4 | Ja | 450 | 1955x764x1521 |

Air Booster Compressor

KOMPBERG® BKB Compressor

Compressor unit and accessories

The compressor unit is a plug & play solution that requires little installation effort and can be put quickly and easily into operation.

A broad range of optional accessories is available for both the compressor and the compressor unit.

The scope of delivery differs depending on the type of the compressor and the compressor unit.

In most cases, the compressor unit consists of the compressor itself supplemented by the electric control, pressure sensors for inlet and outlet pressure, output

temperature monitoring, set connection hoses and bulkhead fittings. They are installed completely assembled and electrically wired on a compressor base frame.

Compressor controller:

The Controller fulfills all requirements for electric controls regarding intuitive operating concepts and additional networking possibilities.

The focus mainly lies on monitoring and safety functions, on an automated operation of the unit and on the optimization of service as well as maintenance processes.

Fields of application are e.g.

- Production of PET bottles
- Starting air used for engines and turbines

Our support and service package is rounded off by our offer of acceptance tests professional installations with subsequent commissioning as well as an extensive range of service.

Technical data Booster compressor KOMPBERG® BKB

| Model | Capacity [m3/h] at suction | | Weight [kg] | Dimension (LxWxH) [mm] | Suction air connection | Compressed air Connection | Electric power [kW] | Compressor rotational Speed [Rpm] |
|-------------|----------------------------|-------|-------------|-------------------------------|------------------------|---------------------------|---------------------|-----------------------------------|
| | 10bar | 13bar | | | | | | |
| BKB 22 Twin | 600 | - | 1208 | 1607x851x1955 278x500x1600 | G 1 1/4 | G 3/4 | 2 x 22 | 900 |
| BKB 22 | 300 | 300 | 495 | 1335x 875x 850 | G 1 1/4 | G 3/4 | 22 | 900 |



Portable Diesel air compressors

KOMPBERG® BPD, Portable Diesel air compressors

Serie BPD Perkins 2–25 m³/min

The range is designed from 2 m³/min up to 25 m³/min and is diesel driven. The design reflects the one company's 50 years of experiences in portable compressors which lead to robust and compact machines ready to work in very difficult conditions on construction site, extreme temperatures, dusty ambient or sometimes not very professional maintenance.

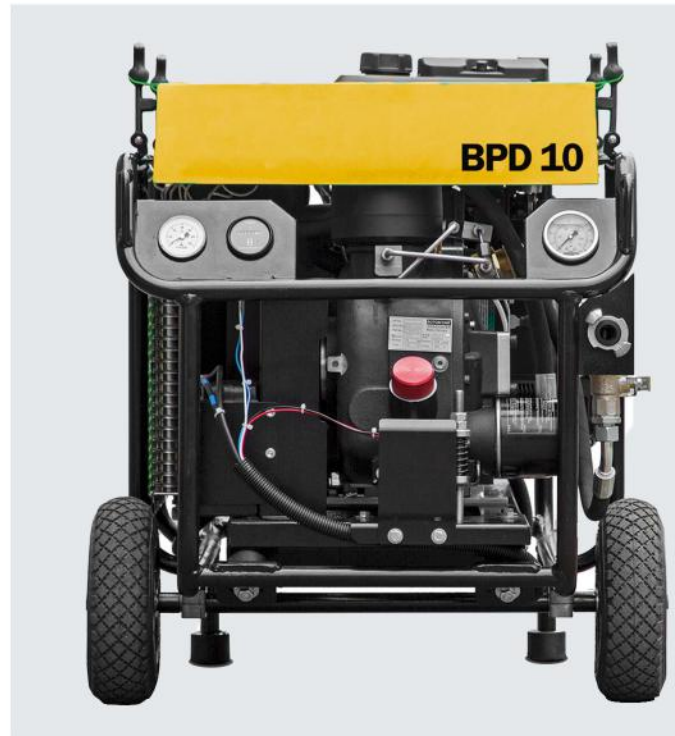
Common parameters of the series:

-Engines - The engine as one of the key components has a direct influence on the reliability of the machine. We are using engines with power reserve to offer higher reliability and longer life time. The engine RPM in our portable range is optimally set up based on performance curve. It means very low fuel consumption.

-Control system - Two stages proportional control system is the next benefit which markedly reduces fuel consumption. The control system perfectly controls the current air consumption to optimize energy for compressed air needed and it leads to extra fuel saving for the customer.

-Air ends - The proven air ends in our portable range provide high reliability during the life time of the machine. The latest generation of screw profile has excellent characteristics in efficiency and noise level point of view.

-Safety system - The safety system monitors coolant temperature, engine oil pressure and compressor oil temperature. If any of the mentioned parameters are exceeded, the machine will shut down or change to stand-by mode automatically.



-Undercarriages - We use galvanized, fully certified undercarriages in accordance with EU standards. Based on customer demands we could offer several options like: fix height tow bar, braked or un-braked or variable height tow bar braked or un-braked.

-Canopies - The canopy reduces the noise level in accordance with EU environmental rules and restrictions. We pay high attention to protect our machine against corrosion. The top and bottom parts of the canopy of our portable range are iron phosphate and powder coated which is approximate to automotive standard.

-Water in compressed air - Our range is ready to offer you dry air. We can deliver the machine with high efficiency after cooler and water traps which are inbuilt under the top part of the canopy. It really delivers you dry air for application like sand or ice blasting.



Designed for extreme conditions

- frosts in Siberian tundra
- startup even during extremely low temperatures (-42°C) due to newly developed technologies
- corrosive environment of seaside areas of South America
- extreme temperatures of Arabian peninsula
- filters and separators which are designed specially for dusty environments



Control system

- control system co-ordinates engine rpm according to discharge air
- maximum power optimization, low fuel consumption

Optional accessories

- universal appeal and requirement of our products
- wide range of optional and additional accessories

Engines

- diesel engines from renowned leading brands
- established global service network
- exceptional lifetime thanks to correct match of engine

Optional Accessories

Our compressors can have various versions of undercarriages: fixed unbraked, adjustable unbraked, fixed braked, adjustable braked, skid mounted.

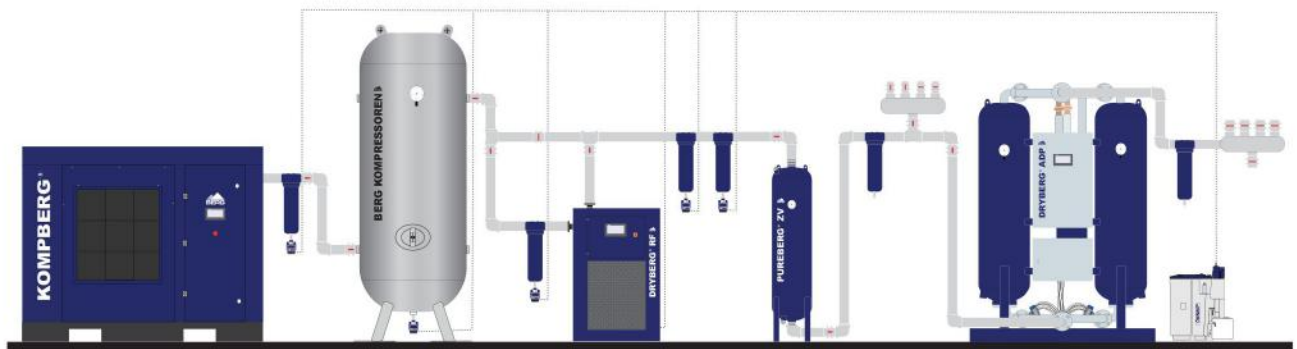
Portable Diesel air compressors Technical Data

| Model | Overpressure | Weight | Free air delivery | Engine make | Engine model | Engine rated power |
|---------|--------------------|--------|-----------------------|-------------|--------------|--------------------|
| | bar | | | | | [kg] |
| BPD 10 | 6 / 10 / 14 | 135 | 1,4 / 1,1 / 0,7 | Vanguard | B&S 23 HP | 16,9 |
| BPD 20 | 7 / 10 | 690 | 2,9 / 2,5 | Perkins | 403D-11 | 21,3 |
| BPD 40 | 7 / 10 / 12 / 14 | 1000 | 4,4 / 3,5 / 2,9 / 2,7 | Perkins | 404D-22 | 35,7 |
| BPD 50 | 7 / 10 / 12 / 14 | 1000 | 5 / 4 / 3,2 / 3 | Perkins | 404D-22 | 35,7 |
| BPD 70 | 7 / 10 / 12 | 1670 | 7 / 6,3 / 5,8 | Perkins | 1104A-44T | 82 |
| BPD 100 | 7 / 10 / 12 | 1800 | 11 / 9,8 / 8,8 | Perkins | 1104A-44T | 82 |
| BPD 200 | 8,6 / 10 / 12 / 14 | 3490 | 24,8/21,3/19,2/17,2 | Perkins | 1106D-E70TA | 186 |





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