



Powerful and flexible: **FLEXPET** systems

FAD from 93 to 1076 m³/h



All good news: FLEXPET models

BOGE combines into one system the complete compressed air solution for making PET bottles.

A BOGE screw compressor generates the required quantity of compressed air which is stored in a vertical receiver. Booster compressor(s) further compress the air to an operating pressure of 40 bar. A high pressure receiver is used for storage.

The FLEXPET system is complete with booster, control panel, adsorption dryer, receivers and high-pressure filters and is mounted to the base-frame and is completely wired and piped (at request even stainless steel), except for the connected screw compressor. At environmental temperatures greater than 25°C, but a maximum of 40°C, cooling water set and after cooler.

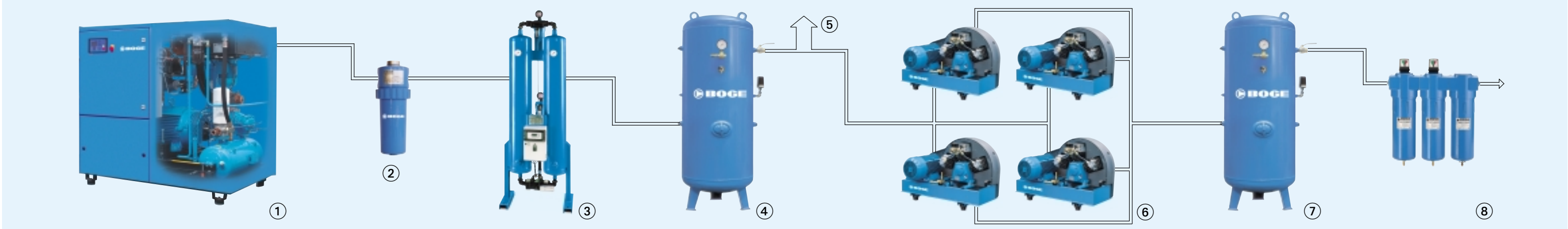
- The modular construction satisfies two conditions impossible to achieve with a single compressor:
- 1. maximum flexibility of capacity and the guarantee of partial compressed air supply even during maintenance.
 - 2. Down times for repairs are reduced to a minimum.
 - 3. Optimum layout of components, according to specific requirements and ambient conditions.

BOGE FLEXPET – Modal configuration according to specifications below***

Ambient temperature in °C 30
Heigh above sea level in m 250
rel. atmospheric humidity in % 50

Type	Free air delivery at 40 bar m³/h	Screw compressor Max. pressure 11 bar FAD** m³/h		Adsorption-dryer Type	Compressed air receiver 11 bar Capacity* in litres	Booster compressor Max. pressure 40 bar FAD m³/h		Total Free air delivery m³/h	Compressed air receiver 41 bar Capacity* in litres
		Type	FAD**			Type	FAD		
BFP 100	93	S 20-2	121	DAZ 25	1000	SRHV 170-10	93	93	1000
BFP 160	159	S 40-2	222	DAZ 35	1000	SRHV 280-10	159	159	1000
BFP 240	235	S 50-2	321	DAZ 60	1000	SRHV 420-10	235	235	1000
BFP 270	269	S 60-2	354	DAZ 60	1000	SRHV 470-10	269	269	1000
BFP 320	316	S 75-2	408	DAZ 60	1000	2 x SRHV 280-10	2 x 159	316	1000
BFP 470	470	S 100-2	603	DAZ 100	1000	2 x SRHV 420-10	2 x 235	470	1000
BFP 540	539	S 125	720	DAZ 125	1000	2 x SRHV 470-10	2 x 269	539	1000
BFP 700	702	S 150	888	DAZ 160	1000	3 x SRHV 420-10	3 x 235	702	1000
BFP 810	807	S 180	1188	DAZ 200	1000	3 x SRHV 470-10	3 x 269	807	1000
BFP 940	941	S 180	1188	DAZ 200	1000	4 x SRHV 420-10	4 x 235	941	1000
BFP 1080	1076	S 220	1368	DAZ 260	1000	4 x SRHV 470-10	4 x 269	1076	1000

* Option: Receiver 1500 l
** The specified F.a.d. of the screw compressors for the admission pressure generation are not the max. possible capacities but the optimum capacities for this layout.
*** In case of deviating conditions a different layout of the single components may be technically necessary and energetically and economically sensible.



Advantages and benefits

Flexible capacity with 11 models from 93 to 1076 m³/h
Tailor-made range of products for every requirement.

It should be noted that in PET-applications, due to the varying sizes of the bottles produced, there is a need for flexible capacity: Flexibility in the system is often a decisive factor.

The screw compressors for the low-pressure air (11 bar) can be supplied separately. ①

With BOGE FLEXPET the control air for the stretch blowing machine can be supplied directly at 10 bar, not expanded from 40 bar as with multi-stage compressor solutions, this can save up to 40% on energy costs. Moreover, the FLEXPET air is dry to -40°C pdp, air from a multi-stage unit will be wet. With BOGE FLEXPET it is also possible to select the base load machine at 10 bar to satisfy plant capacity requirements

Frequency controlled capacity of the screw compressor
Energy saving adaptation to the actual compressed air requirement

With BOGE FLEXPET it is possible to have a frequency controlled base load machine, this will:

- 1. Eliminate off-load operation (energy saving)
- 2. Provide a constant delivery pressure, with no need to operate at higher pressures for on-off regulation (energy savings)
- 3. Reduce the starting current and improve the plants power factor

Cyclone separator with electronic level-controlled condensate drain ②
Adsorption dryer serially with synchronous control incl. pre-filter and after-filter, pressure dew point control optionally ③

Absolutely dry compressed air
Quality class 2 acc. to DIN ISO 8573-1
Classified technically oil-free compressed air
Quality class 1 acc. to DIN ISO 8573-1

Low Pressure Compressed Air Receiver ④
Allows the use of this air for control requirements. ⑤
High pressure booster(s) (40 bar) for connection either to an existing network or to the base load screw compressor ⑥

Electronic control of multiple booster compressors. With a reduced air demand,

only the necessary boosters will run, which saves expensive off-load running.

High Pressure Compressed Air Receiver for air at 40 bar. ⑦

High Pressure Filter station, including coalescent oil filter and active carbon filter ⑧
Delivery of dry, technically oil-free air
Quality class acc. to DIN ISO 8573-1: 1/1/3
no oil vapour or odour in the compressed air

Control panel
complete connection of all components. Just one connection required to mains electric supply

Skid baseframe for the booster, dryer, filters and receivers
fully assembled, wired and ready for connection; no additional installation costs

Air-cooled compression station
no cooling water costs for either screw or booster compressors

Filled with USDA-H1 oil (screw and booster compressors)
Approved for use in the food industry, assures that the quality of compressed air is suitable for „Food“.



BOGE Bielefeld plant: State-of-the-art production facilities guarantee the highest manufacturing quality.



Air at its best: Made in Germany

We at BOGE

We at BOGE plan, develop, manufacture, distribute and service compressed air supply systems for customers in the field of plant construction, industry and workshops.

Our ranges of services include the following:

- ☑ Planning and engineering of compressed air systems
- ☑ Oil-free piston, screw and turbo compressors
- ☑ Oil-lubricated piston and screw compressors
- ☑ Compressed air purification
- ☑ Compressed air distribution and storage
- ☑ Compressed air accessories
- ☑ Compressed air service
- ☑ System control and display.

In Germany we are one of the market leaders in our sector. Worldwide we are represented by our own branch offices, subsidiaries and distribution and service partners.



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