



Rotary Screw Blowers

FBS and GBS Series

With the world-renowned SIGMA PROFILE[✱]

Flow rate 18 to 105 m³/min, Pressure differential up to 1.1 bar

Pure efficiency with synchronous reluctance motors



KAESER's new FBS 720 and GBS 1050 rotary screw blowers set the new standard in efficiency and space-saving design. The SFC version is equipped with an integrated frequency converter and, for models up to 110 kW, a synchronous reluctance motor – a wear-free design which combines all the benefits of high-efficiency permanent-magnet motors with those of robust, maintenance-friendly asynchronous motors. Moreover, versions powered by premium performance 132 kW and 160 kW asynchronous motors are available. Variable speed control allows flow rate to be matched precisely to meet actual demand. Featuring an IE4 Super Premium Efficiency motor, the STC version for fixed-speed operation is now more efficient than ever before. In both versions, power transmission between the motor and blower airend is performed via loss- and maintenance-free gearing. Rotary screw blowers from KAESER no longer use belt drive power transmission, which can be susceptible to wear and efficiency losses.

The FBS 720 up to 110 kW and GBS 1050 up to 160 kW boast a maximum usable flow rate of 72 m³/min and 105 m³/min respectively. These two new blower series further impress with their innovative system design, which, in the case of the FBS, also allows side-by-side installation for maximum space savings. Both rotary screw blower series are delivered ready for immediate connection, including controller and frequency converter / star-delta starter. All units bear the CE and EMC markings and minimise the work needed for planning, construction, certification, documentation and commissioning, for both operators and plant manufacturers. Last but not least, highly-effective sound and pulsation damping ensure quiet operation, whilst the excellent specific package input power is unparalleled in this segment.

Dimensions



Image: FBS 720 M SFC



Image: GBS 1050 M SFC

Technical specifications for 400 V/50 Hz power supply

Model	Gauge pressure		Max. rated motor power kW	Pipe connection DN	Dimensions with control cabinet W x D x H mm	Approx. max. weight kg
	Max. pressure differential mbar	Max. flow rate *) m ³ /min				
FBS 720 L SFC	700	72.5	90	200	1460 x 2330 x 1970	2200
FBS 720 M SFC	1100	71.5	110			
FBS 720 L STC	700	71.5	75			
FBS 720 M STC	1100	72.5	75			
GBS 1050 L SFC	700	105.1	132	250	1870 x 2700 x 2260	4100
GBS 1050 M SFC	1100	104.3	160			
GBS 1050 L STC	700	104.1	132			
GBS 1050 M STC	1100	103.3	160			

*) Performance specifications as per ISO 1217 Annexe C for STC version, Annexe E for SFC version