

Rotary Screw Compressors With Fluid Cooling

With 1:1 Direct Drive

BSD SERIES

Free air delivery 1.12 to 8.19 m³/min, Pressure 5.5 – 15 bar**BSD – Setting the standard**

KAESER Compressors pushes the boundaries of compressed air efficiency once again with its latest generation of BSD series rotary screw compressors. Not only do they deliver more compressed air for less power consumption, but they also combine ease of use and maintenance with exceptional versatility and environmentally responsible design.

BSD – Multiple savings

The new BSD compressors save energy in multiple ways: The compressor air ends are equipped with flow-optimised SIGMA PROFILE rotors and are controlled and monitored via the industrial PC-based SIGMA CONTROL 2 compressor controller. This enables free air delivery to be precisely matched to meet actual compressed air demand and ensures maximum energy efficiency. Last, but not least, the use of Super Premium Efficiency IE4 motors boosts energy efficiency even further.

Perfect partners

BSD series rotary screw compressors are perfect partners for high efficiency industrial compressed air systems. The internal SIGMA CONTROL 2 compressor controller offers multiple communication channels, which allows seamless communication with advanced master controllers, such as KAESER's SIGMA AIR MANAGER, and in-house centralised control systems. This enables simple setup and achieves unprecedented levels of efficiency.

Ease of maintenance ensures savings

The distinctive and eye-catching design of these systems from the outside is complemented by intelligent component layout on the inside for even greater energy efficiency: All service and maintenance points are within easy reach and directly accessible. This saves both time and money when it comes to servicing.

Electronic Thermo Management (ETM)

Powered via an electric motor, the sensor-controlled temperature control valve integrated into the cooling circuit is the heart of the innovative Electronic Thermo Management (ETM) system. The new SIGMA CONTROL 2 compressor controller monitors intake and compressor temperature in order to prevent condensate formation, even with differing air humidity conditions. ETM dynamically controls the fluid temperature – low fluid temperature increases energy efficiency. This system also enables the end user to better adapt heat recovery systems to suit his or her specific needs.

Complete package

1. Ready for operation.
2. Fully automatic.
3. Super silenced.
4. Vibration-damped.
5. All panels powder-coated.
6. For ambient temperatures up to +45 °C.

Sound insulation

1. Panels lined with laminated mineral wool

Vibration dampening

1. Anti-vibration mounts.
2. Dual anti-vibration mount

Airend

1. Single stage with cooling fluid injection for optimal rotor cooling.
2. Genuine KAESER screw compressor airend with energy-saving SIGMA Profile.
3. 1:1 drive.

Drive

1. Directly coupled without gearing.
2. High-flex coupling.

Electric motor

1. IE3 premium efficiency motor.
2. Premium quality German-made motor.
3. IP 55.
4. Insulation class F for greater power reserve.
5. Pt100 winding temperature transducer for motor monitoring.
6. Bearing lubrication from the outside.

Electrical components

1. Control cabinet to IP 54.
2. Volt-free contacts for ventilation control.
3. Siemens frequency converter.
4. Control transformer.

Fluid and air flow

1. Dry air filter.
2. Pneumatic inlet and venting valves.
3. Cooling fluid reservoir with three-stage separator system.
4. Pressure relief valve.
5. Minimum pressure/check valve.
6. ETM Electronic Thermal Management and eco fluid filter in coolant circuit.
7. All fully piped.
8. Flexible couplings.

ETM Electronic Thermal Management ETM

1. Optionally available in water-cooled design with either plate-type or shell and tube heat exchanger.

Refrigeration dryers

1. CFC-free.
2. Contains fluorinated greenhouse gas R-134a.
3. Fully insulated.
4. Hermetically sealed refrigerant circuit.
5. Rotary refrigerant compressor with energy-saving, cycling shut-down feature.
6. Hot gas bypass control.
7. Electronic condensate drain.
8. Upstream refrigeration dryer with ECO-DRAIN.

Heat recovery (HR)

1. Optionally available with integrated heat recovery system (plate-type heat exchanger)

Address:

New Eastern EngineersAsian House, Jeevan Nagar, Opp. Puda Park,
Focal Point Main Road, Ludhiana, Punjab, India.

Contact:

SalesTele: +91-161-2678480
Mobile: +91 88721 45777

Email:

info@neweasternengineers.com

Web:

www.neweasternengineers.com