

Rotary Screw Compressors With Fluid Cooling

With 1:1 Direct Drive

ASD SERIES

Flow rate 0.89 to 6.39 m³/min, Pressure 5.5 to 15 bar**ASD – Even more efficient**

KAESER Compressors pushes the boundaries of compressed air efficiency once again with its latest generation of ASD (ASD.4) series rotary screw compressors. Not only do these optimised ASD compressors deliver more compressed air for less energy, but they also combine ease of use and maintenance with exceptional versatility and environmentally responsible design.

ASD – Multiple savings

The newly refined ASD systems save energy in multiple ways: the compressor air ends feature further refined SIGMA PROFILE rotors and are controlled and monitored via the industrial-PC-based SIGMA CONTROL 2 compressor controller. This advanced controller matches compressed air delivery to actual demand and uses dynamic control to keep costly idling time to an absolute minimum.

Perfect partners

ASD series rotary screw compressors are the perfect partners for high-efficiency industrial compressed air stations. The internal SIGMA CONTROL 2 compressor controller offers various 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.

Variable speed with reluctance motor

The new synchronous reluctance motor combines the advantages of asynchronous and synchronous motors in one drive system. The motor contains no aluminium, copper or expensive rare earth magnets, which makes the drive durable and service-friendly. In addition, the functional principle keeps heat losses in the motor to a minimum, resulting in significantly lower bearing temperatures. This ensures significantly extended bearing and motor service life. In conjunction with the perfectly matched frequency converter, the synchronous reluctance motor also delivers superior performance compared to an asynchronous motor when it comes to losses, especially in the partial load range.

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. The ETM dynamically controls fluid temperature – low fluid temperature enhances energy efficiency. This system also enables end users to better adapt heat recovery systems to suit their 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. Regreasable bearings.

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.

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)

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