

# Rotary Screw Compressors With Fluid Cooling

With Belt Drive

**ASK SERIES**

Flow rate 0.79 to 4.65 m<sup>3</sup>/min, Pressure 5.5 to 15 bar



## ASK – Maximum performance

Discerning users expect maximum compressed air availability and efficiency, even from smaller compressors. It will come as no surprise therefore that KAESER's ASK series rotary screw compressors go far beyond meeting these key expectations. 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.

### More air for your money

ASK rotary screw compressors are true class leaders when it comes to impressive performance. Thanks to a newly developed airend featuring further optimised SIGMA PROFILE rotors, as well as low speed operation, the latest ASK compressors feature up to 16% higher flow rates compared to previous models.

### Energy-saving performance

The efficiency of a machine depends on the total costs incurred throughout the equipment's entire service life. KAESER therefore designed its ASK series compressors with optimum energy efficiency in mind. Refinements to the energy-saving SIGMA PROFILE airend rotors and the use of premium efficiency IE3 motors have significantly contributed to the increased performance of these versatile compressors. The addition of the SIGMA CONTROL 2 internal controller and KAESER's unique cooling system has helped to push the boundaries of efficiency even further.

### Optimised design

All ASK models share logical and user-friendly design throughout. For example, the enclosure doors can be removed in a few simple steps, which allows excellent visibility of the system's intelligently laid out components. Needless to say, the ASK series was designed to ensure best possible access to all service points. When closed, the sound-absorbing compressor enclosure keeps operational sound levels to a minimum thereby ensuring a pleasantly quiet work environment. Moreover, with its two intake openings, the enclosure provides separate air flow for high efficiency cooling of the compressor and drive motor. Last, but not least, ASK series compressors are impressively compact, which makes them the perfect choice for applications where space is at a premium.

### Complete unit

1. Ready-to-run.
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

### Electric motor

1. IE3 premium efficiency motor.
2. Premium quality German-made motor.
3. IP 55.
4. Insulation class F for greater power reserve.

### Vibration dampening

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

### Drive

1. V-belt drive with automatic belt tensioning.

### 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. Thermostatic valve and micro-filter in coolant circuit.
7. All fully piped.
8. Flexible couplings.

### Cooling

1. Air-cooled.
2. Separate aluminium coolers for compressed air and fluid.
3. Radial fan meets the high requirements on fan efficiency demanded by the EU Directive 327/2011.

### 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.

### Heat recovery (HR)

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

### Electrical components

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

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