Ротационно-пластинчатые компрессоры L-TGR, L-GK, RVA

Описание

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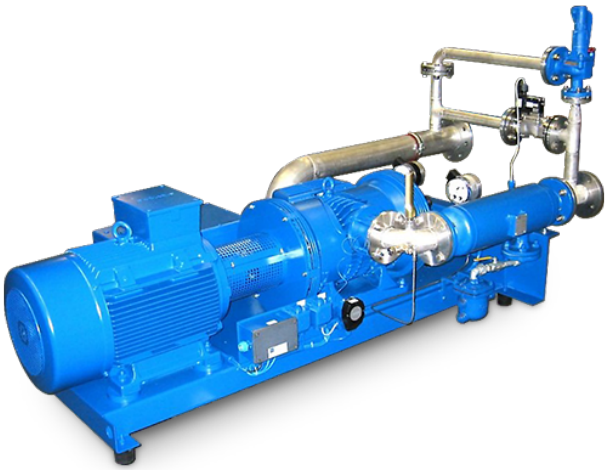


oil-lubricated rotary vane compressors L-TGR 20-100

Fresh oil-lubricated rotary vane compressors. Air-cooled. Direct drive.

- Capacity from 119 to 540 m³/hr
- Operating pressures from 1.5 to 3.5 bar (abs.)
- Available in sizes 20-30-40-50-75-100

Features

Features

Single-stage, air-cooled, compressor for compressing purified gas.
Note: permissible H2S content up to 4,000 ppm depending on application.
The rotary vane gas compressor complies with Directive 94/9/EEC.
Suitable for transporting explosive gases and vapors in explosion group IIB, temperature class T2 in zone 1. It can be operated in zone 1.

Design

Compact unit
All components are mounted on a main frame
Rubber-metal elements to reduce vibrations
Electrical control panel wired to terminal boxes
Installation does not require foundation.

Compressor stage

- Rotary vane compressor stage
- Fresh oil injection cooling
- Multi-cell design principle, driven directly via an elastic coupling between the drive motor and the compressor stage
- Suitable for compressing purified gas
- Outstanding operating reliability
- Dynamic oil film between vanes and the inner wall of the compressor housing
- Low rpm and self-centering rotor

Gas Path

The gas flows through the suction line to the compressor stage. Here it is compressed as a result of the increasingly smaller volumes of the compression chambers. The compressed gas exits from a compression fitting on the compression stage through a check valve and enters the compression-side piping system.

Cooling

The compressor is cooled by a direct-drive cooling air blower on the A side of the compression stage. The heat of compression is transferred to the incoming cooling air via the cooling ribs on the exterior of the compressor housing. The L 50-100 sized compressors have an

additional cooling air blower on the A side of the compressor stage.

Drive

The compressor stage is driven directly via an elastic coupling with coupling protection between the drive motor and the compressor stage shaft.

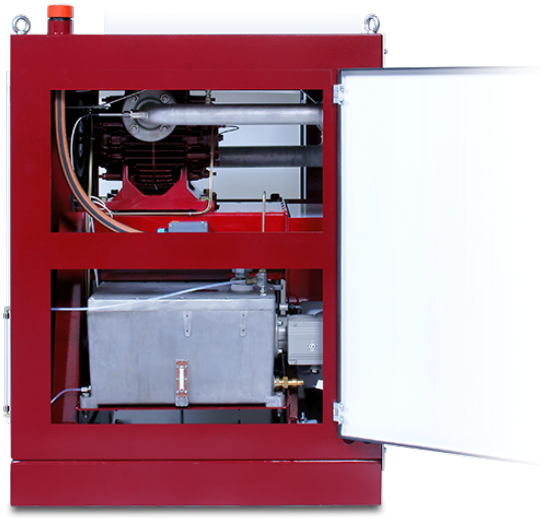
Safety Equipment and Display

- Temperature switches to monitor the gas outlet temperature
- Level monitor to check the oil level in the lubricating oil tank
- Pressure gauge for compressor pressure
- Check valve on the pressure side

Parts & Service

Service

Service and maintenance are costly and time consuming necessities. To keep your costs down we offer hands-on workshops for your technicians to empower them to carry out service fast and efficiently at your plant. Successful attendance of our in-depth trainings for ATEX machines is rewarded with a certificate. If your machine actually breaks down we provide fast and efficient support from the factory.



Fresh oil-lubricated rotary vane compressor - L-GK 20-100

Fresh oil-lubricated rotary vane compressor. Air cooled, with V-belt drive

- Capacity from 119 to 540 m³/hr
- Operating pressures from 1.5 to 3.5 bar (abs.)
- Available in sizes 20-30-40-50-75-100

Features

Features

- Single-stage, air-cooled compressor for compressing purified gas
- Note: permissible H2S content up to 4,000 ppm depending on application
- The rotary vane gas compressor complies with Directive 2014/34/EU
- Suitable for transporting explosive gases and vapors in explosion group IIB, temperature class T2 in zone 1. It can be operated in zone 1.

ATEX

II inside 2G c IIB T2,

II outside 2G c IIB T2

Design

Compact unit with acoustic hood and cooling air blower.

- All components are mounted on a main frame
- Rubber-metal bonded elements to reduce vibrations
- Electrical control panel wired to terminal boxes
- Can be installed without the need to provide a foundation

Compressor Stage

Rotary vane compressor stage with

- Fresh oil injection cooling
- Multi-cell design principle
- Direct drive via elastic coupling between the drive motor and the compressor stage
- Suitable for compressing purified gas
- Outstanding operating reliability
- Dynamic oil film between the rotor vanes and the inner wall of the compressor housing
- Low rpm and self-centering rotor

Gas Path

The gas flows through the suction line to the compressor stage. Here it is compressed as a result of the increasingly smaller volumes of the compression chambers. The compressed gas exits from a compression fitting on the compression stage through a check valve and enters the compression-side piping system.

Cooling

The compressor is cooled by a separate cooling air blower in the acoustic hood.

The intake cooling air flows through the acoustic hood from the bottom to the top and is discharged to the outside through the discharge air hood.

Drive

The compressor is driven by a built-in electrical motor via V-belt.

Safety Equipment and Display

- Check valve on the pressure side
- Contact pressure gauge to monitor the compressor pressure, with two electric switching contacts, measuring range: 0 to 4.0 bar
- Contact thermometer to monitor the outlet temperature, with two switching contacts, measuring range: 0 to 300 °C
- Emergency stop switch to shut off the compressor in emergency situations
- Terminal box (Exe/Exi) for wiring of electrical components

Parts & Service

Service Offer

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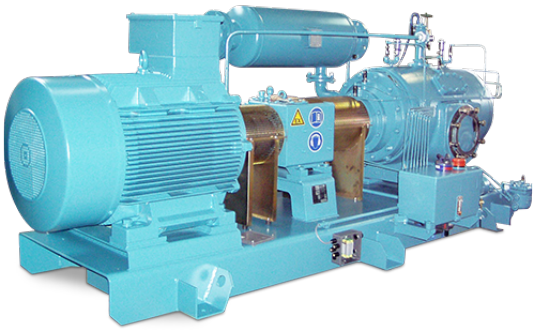

Fresh oil-lubricated rotary vane compressor - RVA 058-610

Fresh oil-lubricated rotary vane compressors. Air-cooled. Direct drive

- Capacity from 505 to 5,262 m³/hr
- Pressure from 1.5 to 3.5 bar (abs.)
- Available in sizes 058, 085, 125, 180, 220, 280, 340, 430, 510 and 610

Features

Features

Single-stage, water-cooled compressor for purifed gas.

Note: permissible H2S content up to 4,000 ppm depending on application.
The rotary vane gas compressor complies with Directive 014/34/EU
It is suitable for transporting explosive gases and vapors in explosion group IIB, temperature class T2 in zone 1 and can be operated in zone 1.

ATEX

II inside 2G c IIB T2,

II outside 2G c IIB T2

Design

- Compact unit
- All components are mounted on a main frame
- Rubber-metal elements to reduce vibrations
- Electrical control panel wired to terminal boxes
- Installation does not require foundation.

Compressor Stage

- Rotary vane compressor stage
- Fresh oil injection cooling
- Multi-cell design principle, driven directly via an elastic coupling between the drive motor and the compressor stage
- Suitable for compressing purified gas
- Outstanding operating reliability
- Dynamic oil film between vanes and the inner wall of the compressor housing
- Low rpm and self-centering rotor

Gas Path

The gas flows through the suction line to the compressor stage. Here it is compressed as a result of the increasingly smaller volumes of the compression chambers. The compressed gas exits from a compression fitting on the compression stage through a check valve and enters the compression-side piping system.

Cooling

The series RVA compressors are water-cooled. The heat generated during operation is removed by cooling water, which flows through the compressor housing from the bottom to the top.

Drive

The compressor stage is driven directly via an elastic coupling with coupling protection between the drive motor and the compressor stage shaft. The RVA 280-610 system size compressors also have a gearbox between the motor and the compressor stage.

Safety Equipment and Display

- Temperature switch to monitor the gas outlet temperature.
- Thermometer to display the gas outlet temperature.
- Level monitor to monitor the oil level in the lubricating oil tank.
- Oil lubricating pump rotational speed monitor.
- Temperature switch to monitor the gearbox oil temperature (RVA 280-610).
- Flow rate monitor to monitor the cooling water at the cooling water outlet.
- Thermometer for cooling water inlet and outlet. Pressure gauge for compressor pressure.
- Check valve on the pressure side.

Parts & Service

Service

Service and maintenance are costly and time consuming necessities. To keep your costs down we offer hands-on workshops for your technicians to empower them to carry out service fast and efficiently at your plant. Successful attendance of our in-depth trainings for ATEX machines is rewarded with a certificate. If your machine actually breaks down we provide fast and efficient support from the factory.

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