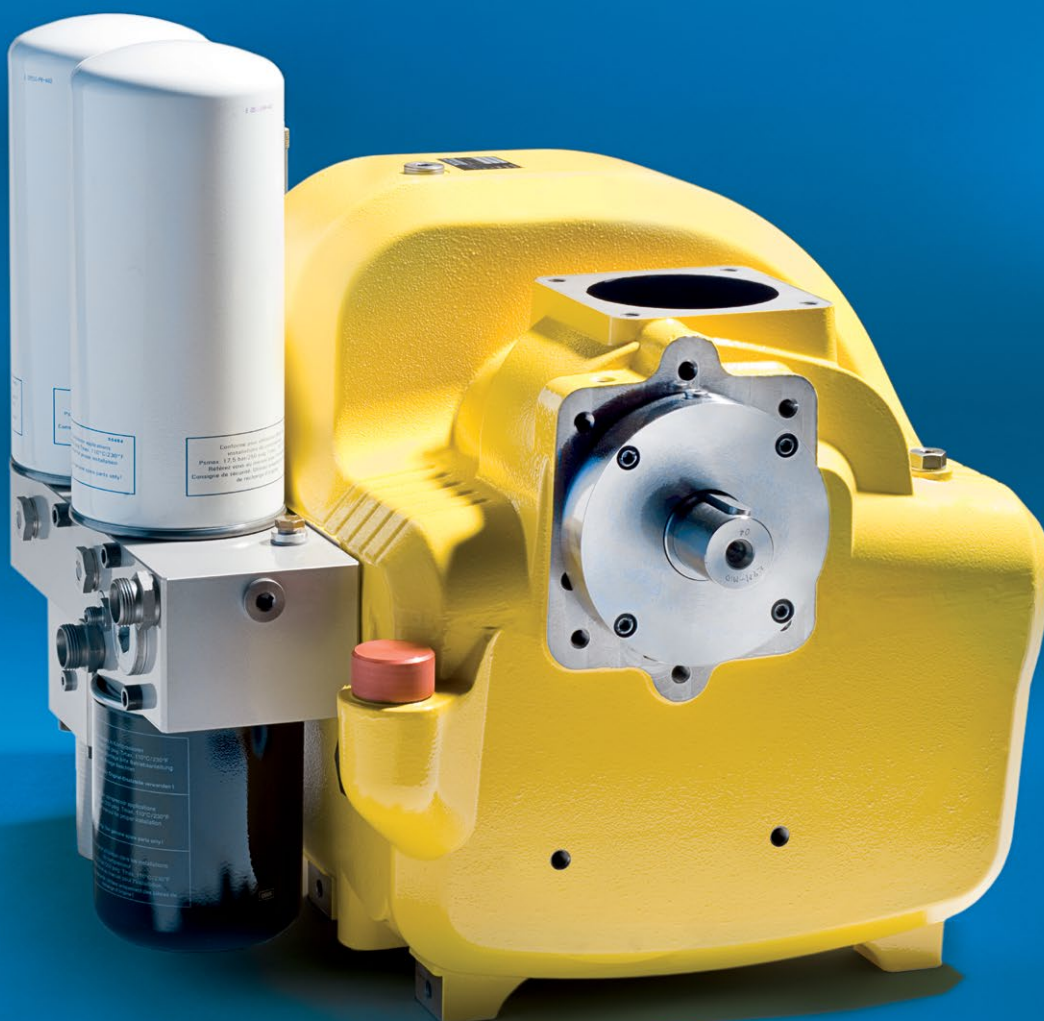


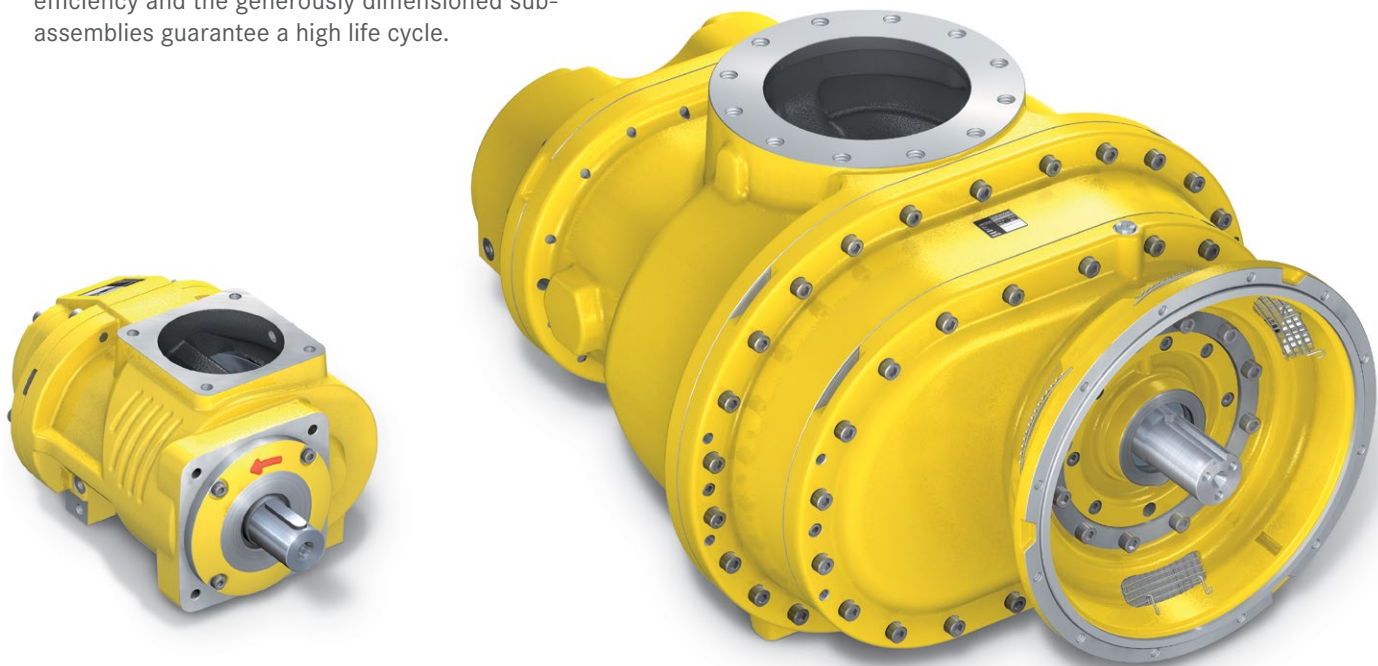
# EVO®-GAS & EVO®-NK-GAS

OIL INJECTED SCREW GAS ENDS AND COMPACT UNITS



EVO®-GAS – SCREW GAS ENDS

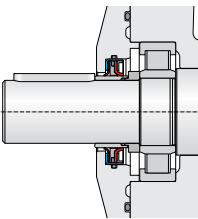
ROTORCOMP® rotary screw gas ends are especially suited for gas compressor applications. The new EVO® wear-free ROLLING PROFILE® with improved efficiency and the generously dimensioned sub-assemblies guarantee a high life cycle.



TECHNICAL DATA

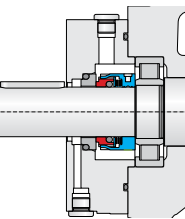
| Type      | Max. Shaft Power |     | Capacity in Air at<br>7 barg / 100 psig |       | Pressure Range<br>bar |    | Speed Range rpm |       | vi  | Net Weight |       |
|-----------|------------------|-----|-----------------------------------------|-------|-----------------------|----|-----------------|-------|-----|------------|-------|
|           | kW               | hp  | m³/h                                    | mcf/d | from                  | to | from            | to    |     | kg         | lbs   |
| EVO2-Gas  | 11               | 15  | 96                                      | 81    | 4                     | 15 | 1,500           | 9,300 | 4.1 | 16         | 35    |
| EVO3-Gas  | 18.5             | 25  | 162                                     | 137   | 4                     | 15 | 1,500           | 9,000 | 4.1 | 22         | 49    |
| EVO6-Gas  | 37               | 50  | 330                                     | 280   | 4                     | 15 | 1,500           | 7,000 | 4.1 | 44         | 97    |
| EVO9-Gas  | 55               | 75  | 504                                     | 427   | 4                     | 15 | 1,500           | 6,300 | 4.1 | 65         | 143   |
| EVO15-Gas | 90               | 125 | 860                                     | 729   | 4                     | 15 | 1,000           | 5,500 | 4.1 | 126        | 278   |
| EVO28-Gas | 160              | 220 | 1,500                                   | 1,271 | 4                     | 15 | 1,000           | 4,000 | 4.1 | 269        | 593   |
| EVO76-Gas | 540              | 725 | 4,560                                   | 3,864 | 4                     | 17 | 1,000           | 3,000 | 5.0 | 1,289      | 2,842 |

Single face mechanical seal



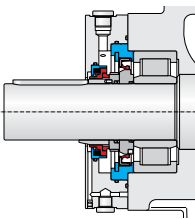
The drive shaft is fitted with a single face mechanical seal. All mechanical seal components are sealed by o-ring. This seal is applied in applications with suction pressure at and above atmospheric pressure and is recommended for gases containing sour components like H<sub>2</sub>S & CO<sub>2</sub>.

Radial lip seal



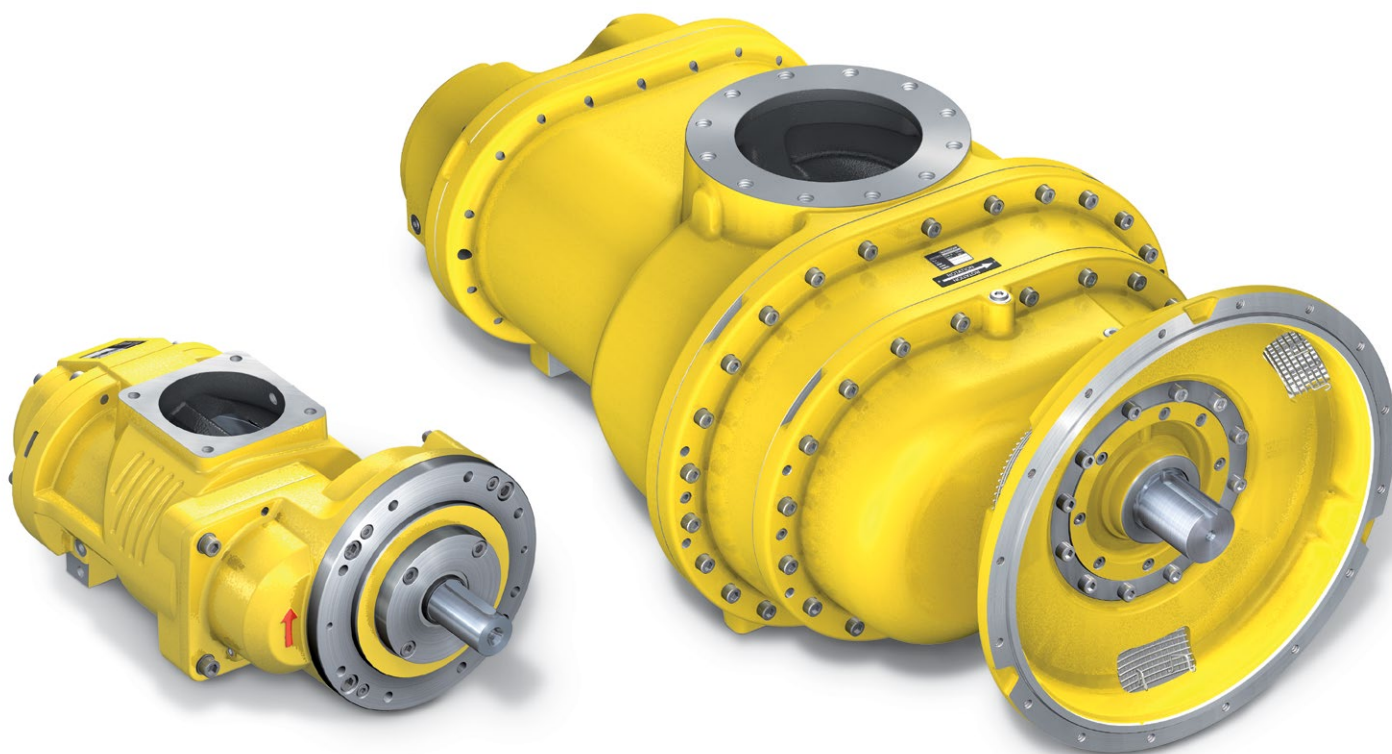
The drive shaft is fitted with a single face lip seal which includes a protective dust lip facing outwards. All seal components are sealed by an o-ring. This seal is applied in applications on sweet gas like CNG or Coal Bed Methane.

Combined radial and mechanical seal system with oil barrier



This seal design is available on the EVO15-Gas block. Inside is a radial sealing ring, while outside (ambient) is a mechanical single face seal. Between these seals is a pressure compensated oil reservoir connected to the oil tank and suction port of the screw compressor.

## EVO®-G-GAS WITH GEAR DRIVE



## TECHNICAL DATA

| Type         | Max. Shaft Power |     | Capacity in Air at<br>7 barg / 100 psig |       | Pressure Range<br>bar |    | Speed Range rpm |       | vi  | Net Weight |       |
|--------------|------------------|-----|-----------------------------------------|-------|-----------------------|----|-----------------|-------|-----|------------|-------|
|              | kW               | hp  | m³/h                                    | mcf/d | from                  | to | from            | to    |     | kg         | lbs   |
| EVO3-G-Gas   | 18,5             | 25  | 162                                     | 137   | 4                     | 15 | 1,500           | 9,000 | 4.1 | 34         | 75    |
| EVO6-G-Gas   | 37               | 50  | 330                                     | 280   | 4                     | 15 | 1,500           | 7,000 | 4.1 | 70         | 154   |
| EVO9-G-Gas   | 55               | 75  | 504                                     | 427   | 4                     | 15 | 1,500           | 6,300 | 4.1 | 92         | 203   |
| EVO15-G-Gas  | 90               | 125 | 860                                     | 729   | 4                     | 15 | 1,000           | 5,500 | 4.1 | 168        | 370   |
| EVO28-G-Gas  | 160              | 220 | 1,500                                   | 1,271 | 4                     | 15 | 1,000           | 4,000 | 4.1 | 323        | 712   |
| EVO40-G-Gas  | 260              | 350 | 2,400                                   | 2,034 | 4                     | 17 | 1,000           | 4,900 | 5.0 | 533        | 1,175 |
| EVO76-G-Gas  | 540              | 725 | 4,560                                   | 3,864 | 4                     | 17 | 1,000           | 3,000 | 5.0 | 1,461      | 3,221 |
| EVO105-G-Gas | 670              | 900 | 6,300                                   | 5,339 | 4                     | 14 | 1,000           | 3,000 | 5.0 | 1,630      | 3,593 |

## FURTHER FEATURES OF OUR GAS ENDS AND COMPACT UNITS

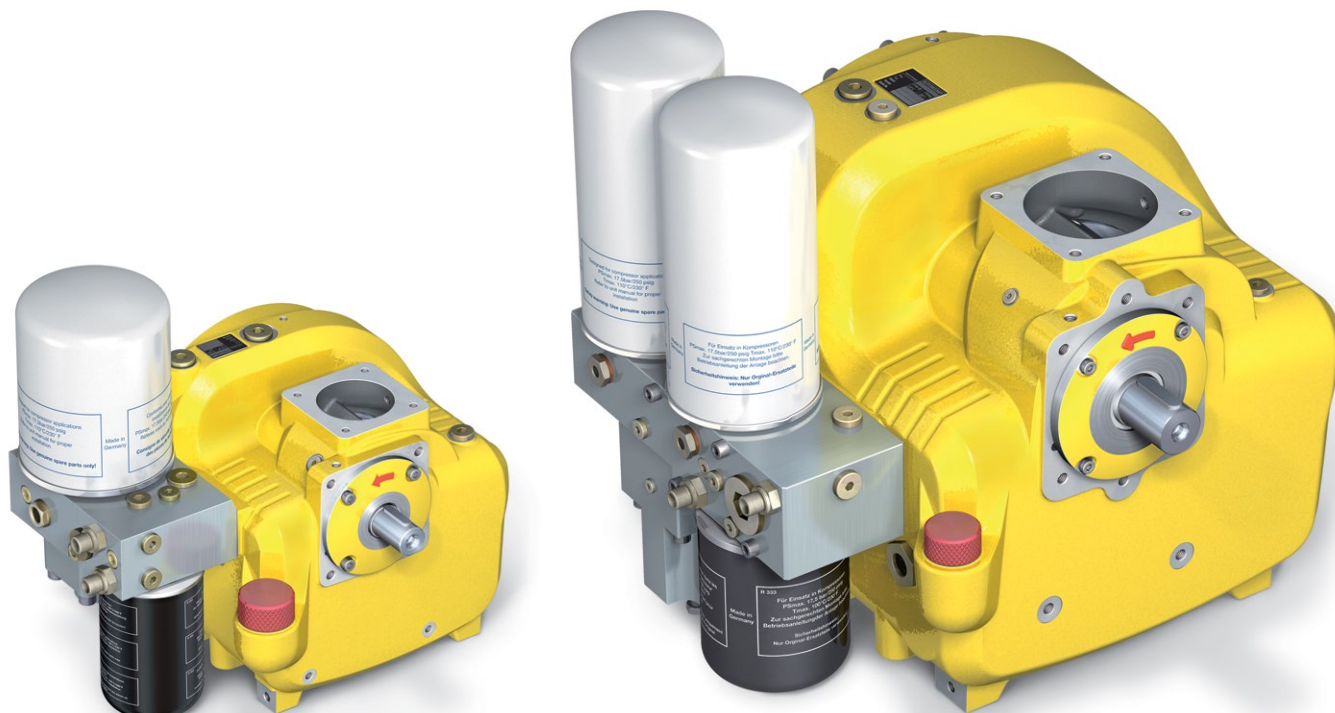
All ROTORCOMP® gas ends and compact units contain outstanding important features:

- › Temperature and gas resistant roller bearings.
- › Low friction and pressure proof compound lip shaft seals, suited for extreme temperatures and working conditions.
- › Alternative mechanical shaft seal systems.
- › All connections and washers with Teflon seals.
- › No yellow metal is used in the gas end construction.

## EVO®-NK-GAS – SCREW COMPACT UNITS

Our new EVO®-NK gas compact units provide optimum operating reliability, efficiency and a unique modularity well adapted to your applications.

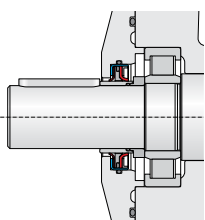
You benefit from small space requirements, low engineering costs, simplified service and maintenance and after all reduced logistics.



## TECHNICAL DATA

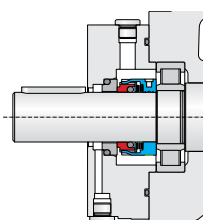
| Type        | Max. Shaft Power |     | Capacity in Air at<br>7 barg / 100 psig |       | Pressure Range |    | Speed Range rpm |       | vi  | Net Weight |     |
|-------------|------------------|-----|-----------------------------------------|-------|----------------|----|-----------------|-------|-----|------------|-----|
|             | kW               | hp  | m³/h                                    | mcf/d | from           | to | from            | to    |     | kg         | lbs |
| EVO2-NK-Gas | 11               | 15  | 96                                      | 81    | 6              | 15 | 1,500           | 9,300 | 4.1 | 41         | 90  |
| EVO3-NK-Gas | 18.5             | 25  | 162                                     | 137   | 6              | 15 | 1,500           | 9,000 | 4.1 | 52         | 115 |
| EVO6-NK-Gas | 37               | 50  | 330                                     | 280   | 6              | 15 | 1,500           | 7,000 | 4.1 | 100        | 220 |
| EVO9-NK-Gas | 55               | 75  | 504                                     | 427   | 6              | 15 | 1,500           | 6,300 | 4.1 | 199        | 439 |
| NK-200-Gas  | 75               | 102 | 600                                     | 508   | 6              | 15 | 1,500           | 4,000 | 4.2 | 263        | 580 |

### Single face mechanical seal



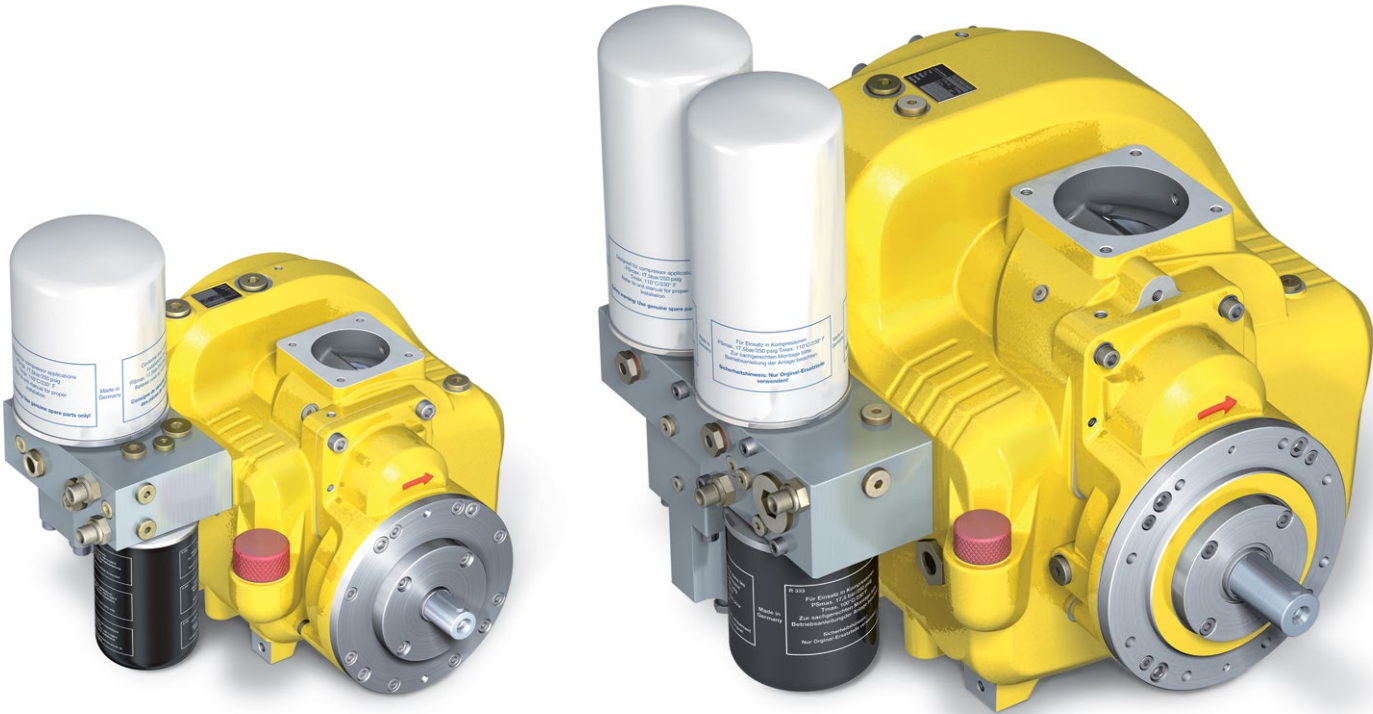
The drive shaft is fitted with a single face mechanical seal. All mechanical seal components are sealed by o-ring. This seal is applied in applications with suction pressure at and above atmospheric pressure and is recommended for gases containing sour components like  $H_2S$  and  $CO_2$ .

### Radial lip seal



The drive shaft is fitted with a single face lip seal which includes a protective dust lip facing outwards. All seal components are sealed by an o-ring. This seal is applied in applications on sweet gas like CNG or Coal Bed Methane.

EVO®-NK-G-GAS WITH GEAR DRIVE



TECHNICAL DATA

| Type          | Max. Shaft Power |     | Capacity in Air at<br>7 barg / 100 psig |       | Pressure Range |    | Speed Range rpm |       | vi  | Net Weight |     |
|---------------|------------------|-----|-----------------------------------------|-------|----------------|----|-----------------|-------|-----|------------|-----|
|               | kW               | hp  | m³/h                                    | mcf/d | from           | to | from            | to    |     | kg         | lbs |
| EVO3-NK-G-Gas | 18.5             | 25  | 162                                     | 137   | 6              | 15 | 1,500           | 9,000 | 4.1 | 64         | 141 |
| EVO6-NK-G-Gas | 37               | 50  | 330                                     | 280   | 6              | 15 | 1,500           | 7,000 | 4.1 | 125        | 276 |
| EVO9-NK-G-Gas | 55               | 75  | 504                                     | 427   | 6              | 15 | 1,500           | 6,300 | 4.1 | 226        | 498 |
| NK-200-G-Gas  | 75               | 102 | 600                                     | 508   | 6              | 15 | 1,500           | 4,000 | 4.2 | 305        | 672 |

WHY TO USE  
EVO®-NK-GAS COMPACT UNITS?

- › High operation reliability – designed for gas applications in continuous operation
- › Includes all advantages of our built-in EVO® technology
- › Each compact unit is tested as a complete system before leaving our factory
- › No leakages due to reduced piping and connections as well as sealing with O-rings (Viton®)
- › Optimized compact design with very low space requirements
- › Simplified service and maintenance

INTEGRATED COMPONENTS ARE

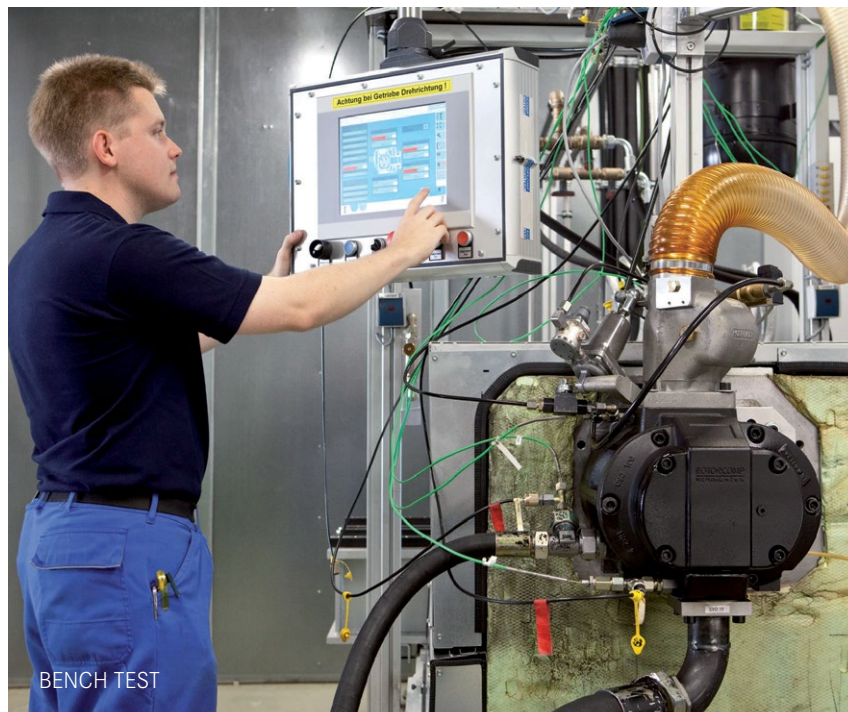
The outset components are included in each EVO®-Gas compact unit:

- › Rotary screw gas end
- › Thermostat regulator for oil
- › Oil pre-separator and receiver tank
- › Minimum pressure valve
- › Oil final separator cartridge/box
- › Oil level sight glass
- › Oil filter cartridge/box

Types from EVO3-NK-Gas on are available with gear box.

## OUR COMPANY

ROTORCOMP® is one of the largest suppliers of oil injected air and gas ends and compact units to the world market. Concentrating on our core competence, the research, design, production and sales of oil injected screw compressors, we provide our products exclusive to OEM customers, packaging air or gas compressors. Embedded to the independent and privately held BAUER GROUP, we are a strong, loyal and faithful partner with customers in more than 60 countries all over the world. We guarantee world class product quality and reliability with our highly sophisticated factory, seated close to Munich in the south of Germany.



## ROTORCOMP SIZING GAS SOFTWARE

- › Recommends the most efficient EVO® types
- › Calculates performance data
- › Indicates technical limits
- › Provides essential information for your drive
- › Determines important data for your cooling system

## AREAS OF APPLICATION

OUR PRODUCTS ARE RUNNING SUCCESSFULLY:

### ON GAS FIELDS



### IN BIO GAS POWER PLANTS



### IN CNG DISPENSER STATIONS AS FIRST STAGE

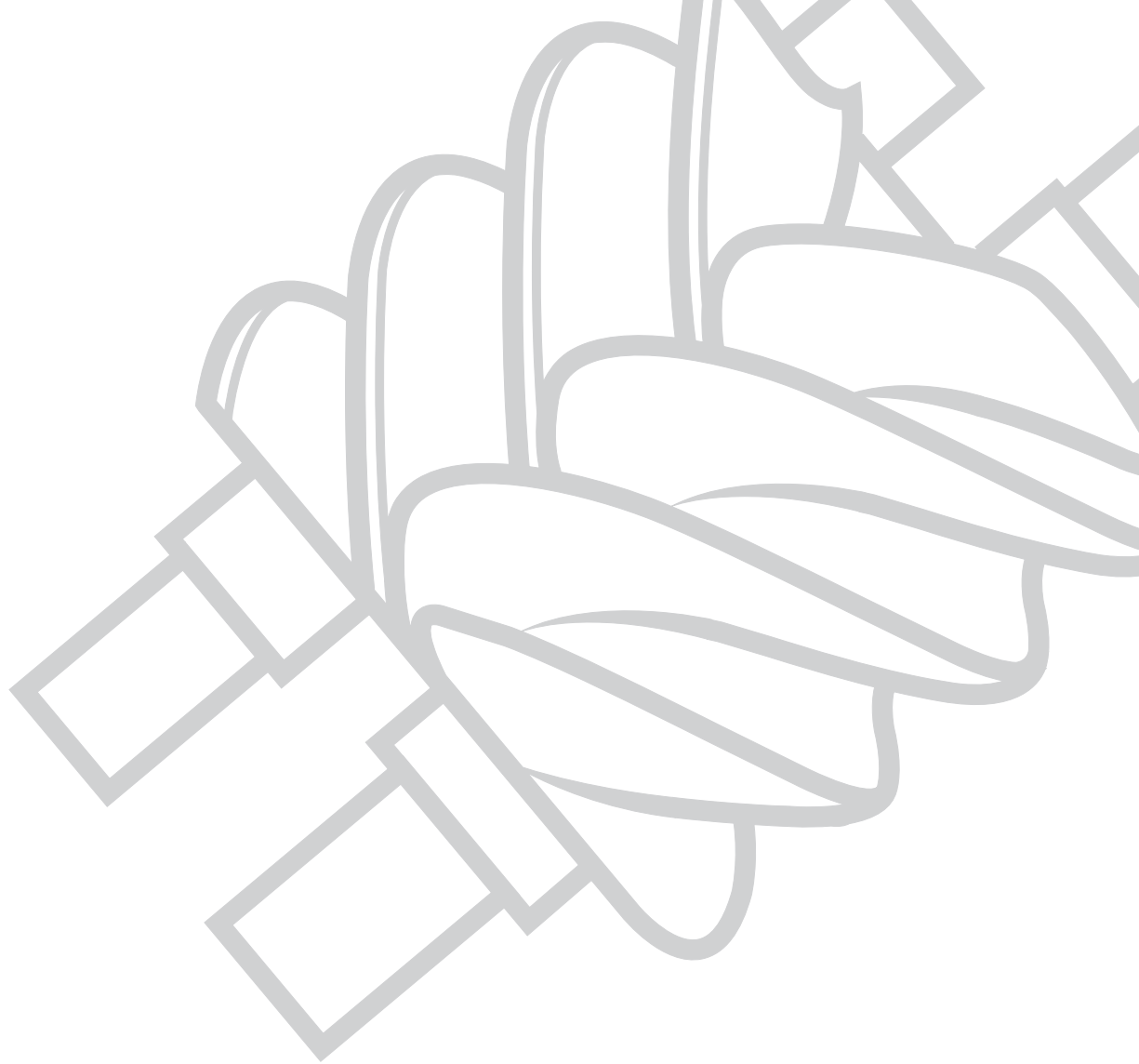


### IN H<sub>2</sub> REFORMER STATIONS FOR FUEL GAS CELLS



## AND MANY FURTHER GAS APPLICATIONS

- › Vapour recovery
- › Natural Gas Gathering
- › Biogas Compression
- › Mine Gas Compression
- › Coal Bed Methane Compression
- › Microturbine Boosting
- › Fuel Gas Boosting



## INTERESTED IN ONE OF OUR PRODUCTS?

**CONTACT US – WE ARE HAPPY TO PROVIDE  
INFORMATION AND ASSISTANCE.**

### **ROTORCOMP VERDICHTER GmbH**

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Fax: +49 (0)89 72409-38  
[info@rotorcomp.de](mailto:info@rotorcomp.de)  
[www.rotorcomp.de](http://www.rotorcomp.de)



**PRODUCT OVERVIEW  
EVO®-GAS & EVO®-NK-GAS**

04/2017

Subject to change without notice