

COMPRESSED AIR  
PUSHING YOU FORWARD

# SCREW COMPRESSORS

RS-B  
BELT DRIVE



MOTOR POWER: 2.2 - 11.0 KW



**RENNER**  
Kompressoren

# YOUR SPECIALIST FOR COMPRESSED AIR

As a medium-sized family business with modern development and manufacturing facilities and over 230 highly qualified employees, RENNER Kompressoren has been a benchmark for quality and customer satisfaction for more than 30 years.

With short decision-making processes and our flexibility, we offer you fast, customized and individual solutions for every compressed air requirement in industry and trade. RENNER GmbH Kompressoren was certified for the first time in 2006 and has since been continuously recertified according to DIN EN ISO 9001. This certification contributes to the continuous RENNER product and service quality.

## RENNER PORTFOLIO

Our compressed air systems are efficient and reliable. Especially with screw compressors with variable speed control, up to 35% energy costs can be saved here. Our compressed air range includes oil- and water-injected screw compressors, piston compressors, oil-free SCROLL compressors and systems with variable speed control or direct drive in the power range from 1.5 to 355 kW. We have more than 6,000 compressor models on range, which can be customized from the level of pressure to energy consumption. Accessories for compressed air complete the portfolio.

## OUR SERVICE FOR YOU

Our team and our distributors offer first class personal support, innovative and robust compressor engineering, and reliable service in around 100 countries. In addition, our project department, together with our distributors, offers cross-system planning of the system technology – a complete engineering package from the first meeting to the instruction and handover of the system. We are proud to assist you worldwide as a competent sales and service partner with an excellent price-performance ratio!



# RENNER'S COMPACT, ROBUST, HIGH-PERFORMANCE COMPRESSORS

Oil-injected screw compressors enable the most modern and economical type of compressed air generation in the corresponding performance range. RENNER is fully committed to this compression principle. The power range extends from 2.2 to 355 kW with a final pressure of up to 15 bar.

RENNER screw compressors with an asymmetrical profile are designed for uncompromising industrial use. High efficiency, long service life and simple and cost-effective maintenance are the most important criteria in the development of new products.

The RS-B series focuses on powerful compressed air supply, a very compact design and maintenance-friendly construction with easily accessible components.



## DESIGN FEATURES AND ADVANTAGES OF THE RS-B SERIES

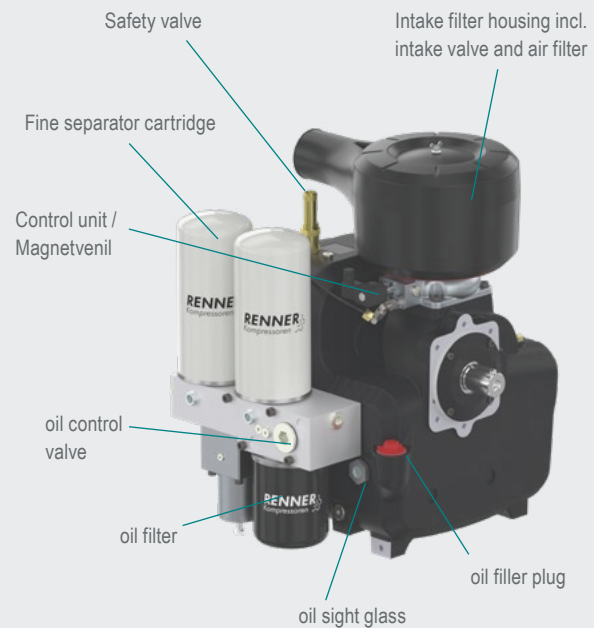


Image: PRO 9 NK

- Easily removable casing panels allow easy access to individual components for maintenance.
- The right solution for every situation: available as a basic machine, with an attached refrigeration dryer or as a complete unit.
- Intensive cooling in combination with an effective aftercooler guarantees operational reliability and good compressed air quality.
- Designed for industrial use – even in continuous operation.
- Standard components from German brand manufacturers ensure a high standard of quality and enable short response times in the event of malfunctions.
- Compact compressor stages without additional connecting pipes and elements. No separate oil separator tank required.
- Compressor housing mounted on vibration-damping metal. This reduces noise levels and ensures low-vibration installation.
- Control system: RENNERlogic as standard, optional RENNERtronic Touch or RENNERtronic Plus Touch.

# SCREW COMPRESSOR

## SERIES RS-B 2.2 - 11.0 KW 3.0 - 15.0 HP

**OIL INJECTED**  
**BELT-DRIVEN**  
**AIR-COOLED**

The powerful, belt-driven screw compressors generate a high volume of compressed air with good air quality in a small footprint. The solution for economical and continuous compressed air generation for trade and industry.

### COOLER

First-class heat transfer thanks to a combination cooler (oil-compressed air aftercooler) made of aluminium, whose toughness and strength enhance reliability.

### HOUSING CONSTRUCTION

All components are easily accessible from one side thanks to removable doors and housing struts. For quick and easy maintenance.

### CONTROL

The robust RENNERlogic control system with pressure and temperature display, operating hours counter, on/off switch and emergency stop button is included as standard. The RENNERtronic Touch and RENNERtronic Plus Touch control systems with base load change function are available as options for greater ease of use.

### ELECTRICAL BOX

Compact and accessible electrical components. Pressure switch or pressure sensor positioned for ease of use.

### FAN WHEEL

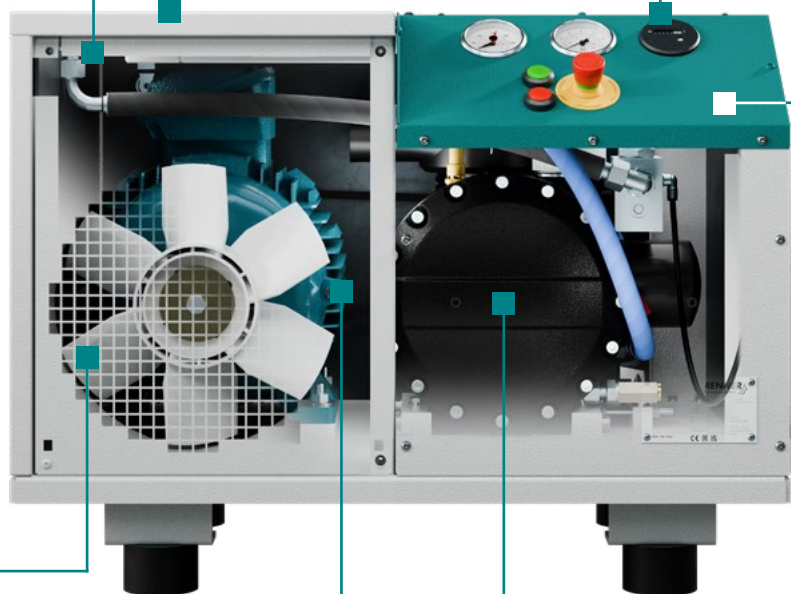
The fan wheel, positioned behind a robust tamper-proof grille, ensures optimum cooling. A magnetic attachment filter grille including filter mats is available as an option for additional dust protection.

### ELECTRIC MOTOR

Highly efficient IE5 or IE4 motor in grey cast housing with guided cooling air flow for operational reliability and high durability.

### SCREW AIR-END

Screw air-end offer an impressive range of performance and impress with their efficient technology consisting of high-quality materials that reduce wear and tear and extend service life.



# COMPACT DESIGN – BUILT FOR BIG JOBS

## AREAS OF APPLICATION

- Industrial production: *metal processing, plastics processing*
- Automotive industry: *painting systems, pneumatic tools*
- Mechanical engineering: *Control air for machines and systems*
- Electronics manufacturing: *clean room, assembly*
- Wood and furniture industry: *sanding, pressing, sandblasting*
- Workshops & craft businesses: *Tools and machinery*
- and much more.



With the SAFETY 5 advantage programme, you can increase your security of supply for 5 years.



## HIGHLIGHTS OF THE SERIES

### COMPACT AND FUNCTIONAL

This series is the most compact and economical design of screw compressor from RENNER. Solid and simple construction for functional compressed air generation.

### STAR CONNECTION

Available from 5.5 kW with star-delta connection. This reduces the starting current to approx. 1/3 compared to direct starting. This requires an additional built-in starting relief in the system.

### AIR RECEIVER

Galvanised or powder-coated, available in various volumes. From 250 litres, galvanised with hand hole or powder-coated with viewing window for easy maintenance. Complies with AD2000 guidelines.

## DETAILS OF THE SERIES



### MODULAR SYSTEM

The illustration shows the compact RSDK-B model with a 2x90 litre air receiver and attached RKT-A refrigeration dryer with R513A refrigerant, including the optional magnetic pre-filter screen with filter mat.



### COMPACT SCREW AIR-END

Optimised compact design for cost-effective system implementation with very low space requirements. This simplifies servicing and eliminates leaks thanks to reduced piping and a separate oil tank.



### EASY TO SERVICE

Easy belt tensioning: by adjusting the air end via an adjusting screw, the belt is tensioned and secured. In addition, the mini ball valve on the air end allows quick and clean oil changes, which significantly reduces maintenance time.

# TECHNICAL DATA

## RS-B SERIES 2.2 - 11.0 KW 3.0 - 15.0 HP

<sup>3</sup> R513A  
refrigerant

<sup>4</sup> AD2000  
Directive



Compressed air outlet

inch

G 1/2

| Motor power |      | model           | Free air delivery <sup>(1)</sup> |        |        |                      | Noise level |
|-------------|------|-----------------|----------------------------------|--------|--------|----------------------|-------------|
| kW          | hp   |                 | 7.5 bar                          |        | 10 bar |                      |             |
|             |      | m³/min          | cfm                              | m³/min | cfm    | dB(A) <sup>(2)</sup> |             |
| 2,2         | 3,0  | RS(D)(K)-B 2.2  | 0,34                             | 12     | 0,27   |                      | 10          |
| 3,0         | 5,0  | RS(D)(K)-B 3.0  | 0,46                             | 16     | 0,38   | 13                   | 70          |
| 4,0         | 6,0  | RS(D)(K)-B 4.0  | 0,64                             | 23     | 0,53   | 19                   | 70          |
| 5,5         | 8,0  | RS(D)(K)-B 5.5  | 0,83                             | 29     | 0,74   | 26                   | 75          |
| 7,5         | 11,0 | RS(D)(K)-B 7.5  | 1,13                             | 40     | 1,02   | 36                   | 78          |
| 11,0        | 15,0 | RS(D)(K)-B 11.0 | 1,57                             | 55     | 1,54   | 54                   | 81          |

<sup>(1)</sup> According to ISO 1217 Annex E <sup>(2)</sup> According to standard DIN EN ISO 2151:2009 <sup>(3)</sup> Refrigeration dryer with refrigerant R513A <sup>(4)</sup> Air receiver in accordance with AD2000 guidelines (from 250 litres with hand hole) <sup>(5)</sup> ECN air receiver in accordance with AD2000 guidelines (with 2-inch inspection opening)

## DESIGNS

### air receiver

90 litres<sup>(4)</sup>, galvanised (2.2 - 5.5 kW only)

2x90 litres<sup>(4)</sup>, galvanised (2.2 - 7.5 kW only)

4x90 litres<sup>(4)</sup>, galvanised

250 litres<sup>(4)</sup>, galvanised

270 litres standing<sup>(4)</sup>, galvanised

500 litres<sup>(4)</sup>, galvanised

270 litres ECN<sup>(5)</sup>, powder coated

500 litres ECN<sup>(5)</sup>, powder-coated

### Compressed Air Treatment

Refrigeration dryer with timecontrolled condensate drain <sup>(3)</sup>

### RS-B 2.2 - 11.0 KW

2.2 - 5.5 kW<sup>(A)</sup>  
7.5 + 11.0 kW<sup>(B)</sup>



<sup>(A)</sup> 716 mm  
<sup>(B)</sup> 776 mm

<sup>(A)</sup> 540 mm  
<sup>(B)</sup> 597 mm

<sup>(A)</sup> 536 mm  
<sup>(B)</sup> 556 mm

### RSDK-B 4X90 2.2 - 11.0 KW

2.2 - 5.5 kW<sup>(A)</sup>  
7.5 + 11.0 kW<sup>(B)</sup>

**Version**  
with refrigeration dryer  
and 4x90l air receiver



<sup>(A)</sup> 1751 mm  
<sup>(B)</sup> 1833 mm

<sup>(A)</sup> 1056 mm  
<sup>(B)</sup> 1067 mm

<sup>(A)</sup> 755 mm

### RSDK-B 500 2.2 - 11.0 KW

2.2 - 5.5 kW<sup>(A)</sup>  
7.5 + 11.0 kW<sup>(B)</sup>

**Version**  
with refrigeration dryer and  
500l air receiver



<sup>(A)</sup> 1416 mm  
<sup>(B)</sup> 1513 mm

<sup>(A)</sup> 668 mm

### RSDK-B ST 270 2.2 - 11.0 KW

2.2 - 5.5 kW<sup>(A)</sup>  
7.5 + 11.0 kW<sup>(B)</sup>

**Version**  
with refrigeration dryer and  
270 l air receiver, upright



<sup>(A)</sup> 1695 mm  
<sup>(B)</sup> 1760 mm

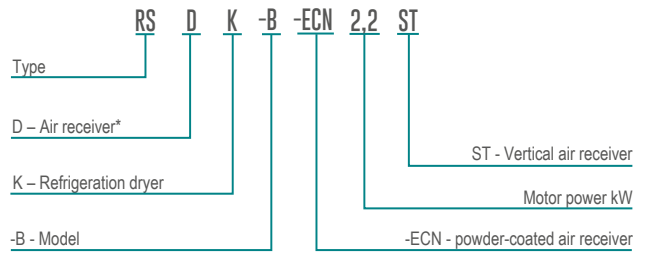
<sup>(A)</sup> 800 mm

## STANDARD EQUIPMENT

- Initial oil filling: RENNER Special
- RENNERlogic
- Motor efficiency class: IE 3
- Star-delta connection (from 5.5 kW)
- emergency stop button
- 5 m supply cable, stripped with sleeves
- Manual ball valve
- Variant with refrigeration dryer incl. Timecontrolled condensate drain (pressure dew point 3°C)
- Metal buffer set for 2x90, 4x90 litre pressure vessels

### TYPE KEY SERIES RS-B

\*galvanised as standard



## OPTIONS

### Control

- RENNERtronic Touch electronic control system
- RENNERtronic Plus Touch electronic control system
- RENNER simply connect

### Drive system

- Surcharge for IE4 motor
- Compressor surcharge for pneumatic intake regulator
- Star-delta circuit for 2.2 - 4.0 kW
- Standstill heating installed
- Retrofit kit for standstill heating

### Refrigeration dryer

- Levelcontrolled condensate drain

### Air receiver

- Metal buffer set
- Air receiver drainage kit including levelcontrolled condensate drain

### Air duct

- Magnetic design filter grille

### Electrical system

- AWAL (RENNERlogic)
- CEE phase reversal plug mounted on connection cable
- Timer (RENNERlogic)
- External timer with manual switch function in wallmounted box
- Direction of rotation monitoring via phase sequence relay
- Remote ON/OFF accessory switch incl. box for wall mounting

## CONTROLS FOR MAXIMUM COMFORT

The RENNERtronic PLUS Touch with a 7-inch touchscreen display significantly increases ease of use and information comfort compared to the standard control system. The user-friendly RENNERtronic PLUS Touch combines sophistication and simplicity.

### Comfort and functionality enhancement

- 7-inch touchscreen display
- Two additional channels for time switches
- Scaling: Day / Week / Month
- Base load change function
- including system pressure sensor



## ACCESSORIES

### Compressed Air Management Systems

Higher-level controls for a demand-based compressed air supply with RENNEconnect or RENNERconnect Easy.

### Compressed Air Treatment

For clean and oil-free compressed air, our filters and refrigeration dryers are available as accessories to ensure high compressed air quality.

# COMPRESSED AIR PUSHING YOU FORWARD

RENNER, together with its specialist retail partners, is at your side as a competent sales and service partner in around 100 countries. This guarantees you first-class advice and comprehensive, fast maintenance service worldwide, which solves problems in the shortest possible time if necessary. You receive a product that is specially tailored to your needs and that performs its services in a compact, robust, reliable and energy-efficient manner.



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## THE RENNER PRODUCT PORTFOLIO

You are guaranteed to find the right compressor for every application with us.

- SCREW COMPRESSORS
- OIL-FREE COMPRESSORS
- PISTON COMPRESSORS
- CONTROL SYSTEMS
- COMPRESSED AIR ACCESSORIES



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