

## RENNER screw compressors

# RS / RSF 90 – 250 kW

 Made in  
Germany



All compressors  
available with  
variable speed control!

Motor power: 90 – 250 kW



RS 90



RSF 90



RS/RSF 132



RS/RSF 160

## RENNER GmbH Kompressoren – Success Rooted in Tradition

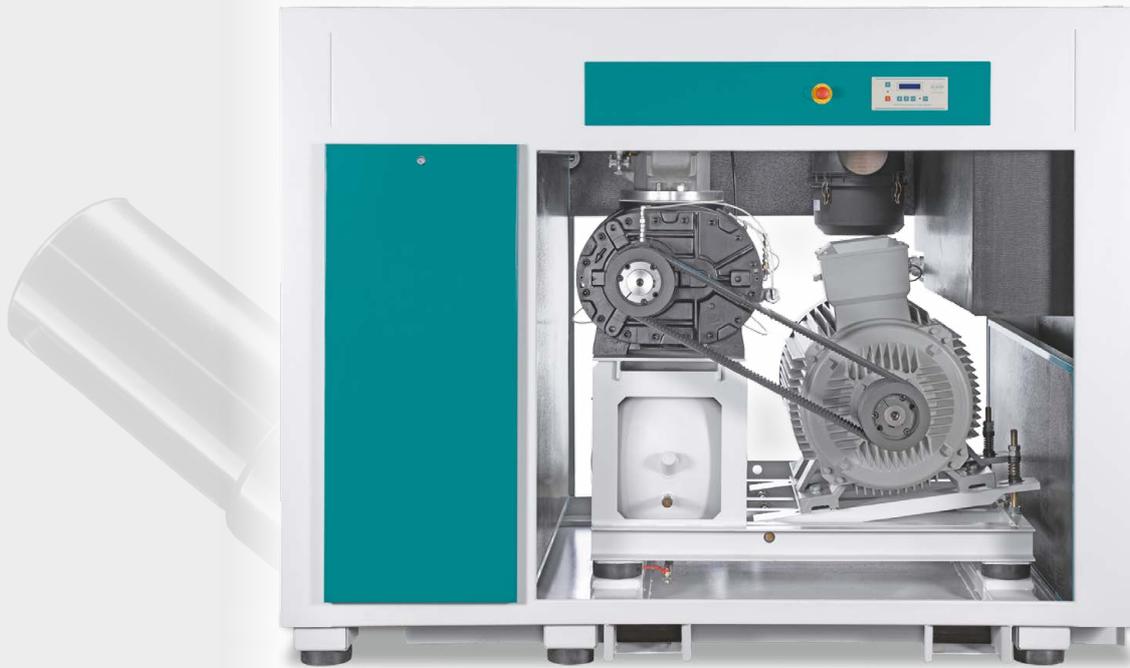
RENNER GmbH Kompressoren have been known for reliable compressed air for more than 20 years. As a family owned business with fast decision-making processes, we set the benchmarks in developing, manufacturing and selling efficient screw compressors.

RENNER has more than one hundred employees to provide you with first-class technical advice, robust engineering in compressor construction technology in more than one hundred countries. We offer fast maintenance services in Germany and all over the world through our large distributor network.

You can rely on our high quality standards not only in the field of screw compressors but also in the segments of oil-free compressed air and piston compressors. We are proud to assist you as a competent sales and service partner worldwide!



## RENNER – The expert in screw compressors



Oil-injected screw compressors are the most modern and economical way of generating compressed air in the medium to top performance range these days. RENNER fully relies on this compression principle. The performance range is between 2.2 to 355 kW with a discharge pressure of up to 15 bar as standard.

RENNER screw compressors are designed with an asymmetrical profile for uncompromising, industrial use. Highly economical, long lifespan and easy and cost-effective maintenance are the most important criteria in the development of new products.

### Range RS 90 – RS 250

Is your requirement for compressed air as demanding as your need for quality and economy? Then RENNER's large screw compressors are the solution for you. Because this is where innovative compressor technology meets high serviceability and robust construction with useful extras. In pressure and power levels ranging from 7.5 to 15 bar and 90, 110, 132, 160, 200, 250 kW.

RS 90 – RS 250: the logical continuation of RENNER products in the top performance range.

### Key features at a glance

- + 2-year warranty
- + Compact and clearly laid out design
- + Low-noise and low-vibration technology
- + Maintenance-friendly due to optimal accessibility of the key components
- + High quality standard components from German brand manufacturers guarantee quality and fast delivery of spare parts
- + Long lifespan due to intelligent construction details such as the automatic V-belt tensioning design or the cooling air system that guarantees optimal compressed air temperatures
- + High cooling air flow rate with excellent residual compression

### Energy efficient

**Variable speed control significantly reduces the overall cost of your compressed air supply. The investment costs pay back in a very short period of time.**

## RS 90 – RS 250: RENNER – the details

What has the new range got to offer over and above the well established RENNER design concept?  
An innovative, user-friendly concept totally geared to performance and economy.



### Optimum accessibility – Goodbye to servicing headaches.

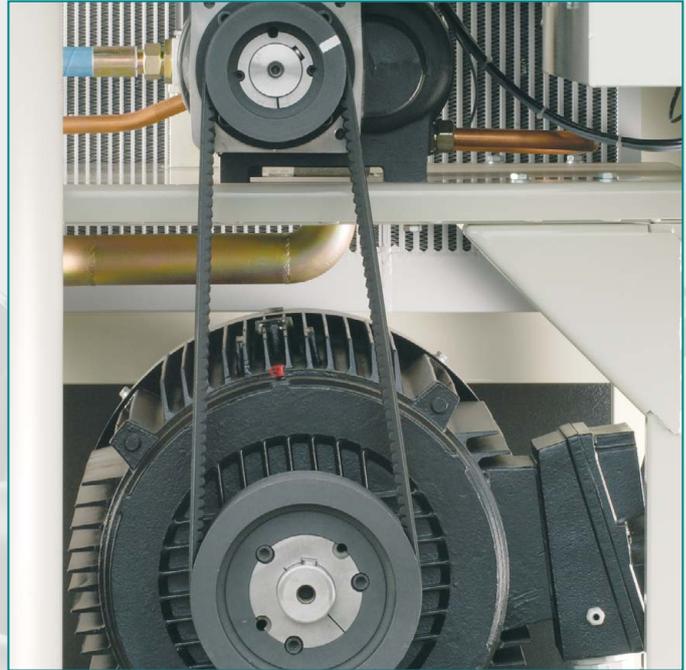
Maintenance and repair can be labour-intensive and cost-intensive – if the engineer finds it hard to reach the relevant components. You can take our word that this problem will soon be a thing of the past. Because large removable doors are fitted as standard on RENNER compressors and the housing provides ample space for convenient layout of the components.

### Air end – reliable centrepiece.

State-of-the-art production techniques guarantee supreme precision of rotor gears. The air end's location guarantees optimum rotational speeds and low energy consumption.

### Sound insulation box.

We provide effective sound insulation as standard. A distortion-resistant sound insulation box reduces vibrations and noise to extremely low levels. They can be reduced even further – with RENNER super sound insulation, which is available as an option.



### Reliable V-belt drive – durable and consistently efficient.

RENNER's engineering design prevents a reduction in free air delivery and premature wear in this essential drive component: the pivoting base suspension keeps tightening the V-belt automatically.



### Fourfold separator (from RS 2-110 on).

The effective RENNER fourfold separator is easily accessible and therefore very easy to maintain. Multiple oil pre-separation, rapid degassing and low foam formation guarantee compressed air quality – even in applications that have the highest compressed air requirements. The residual oil content remains at a mere 1 to 3 mg/m<sup>3</sup>.

## RENNER electronic control – increased safety, less cost

Compressed air supply must be reliable and economical. This requires intelligent controlling of individual compressors and compressor management systems for a number of connected machines.



### Technical features:

Compressed air controlling within two adjustable pressure ranges. Customers can set two pressure ranges within factory default limits within which the compressor can be controlled. Pressure ranges can be selected by changing the programmed input.

Operating and load hours are recorded to identify uneconomical operation where load hours vary greatly.

Adjustable maintenance intervals are monitored. For different compressor components, such as air filters or oil filters, maintenance intervals can be programmed. A message appears when maintenance is due.

The last ten messages stating the current operating hours are displayed on the control for diagnostic purposes.

The control has a simple base-load change over switch which can be activated via the menu (additional module required).

A PI controller is integrated for controlling compressors with frequency converters. This regulator determines the rotational speed setpoint depending on the set pressure range and transmits this to the converter as analog signal.

## RENNER variable speed control: Preventing idle times and fluctuations in pressure.

Do your compressed air requirements vary greatly or would you like to integrate the compressor into a larger system? This control technology enables you to optimise applications in these operating conditions. The frequency converter is integrated in the cool, dust-free area of the system.



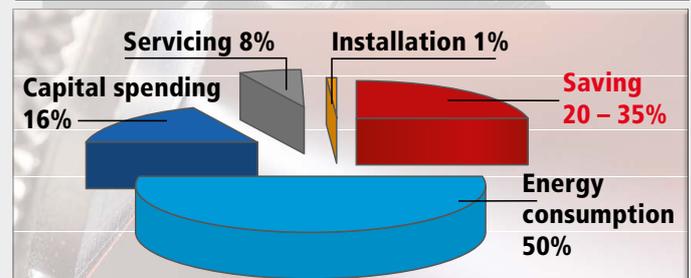
### Advantages of the RENNERtronic

- Controls and monitors the units
- Displays
  - the main pressure within easily selectable pressure limits
  - the compressor temperature
  - errors/ fault message storage
  - maintenance intervals
- Capture of operating and load hours
- The software includes a Base Load Change Over function
- Control is protected by means of code levels
- Update for special functions possible at any time
- Diagnostic functions of inputs and outputs

### Advantages of the RENNERtronic Plus

- Easier operation due to a larger display
- Real-time clock
- Integrated timer with 7 channels
- Monitoring of system pressure
- Base-load changeover (BLCO)
  - facilitated connection to other compressors
  - additional functions and options available
- Displays
  - the flow (FAD)
  - the power consumption (optional)
  - additional symbols
- Numerous statistical evaluations
- Profibus and modbus connection available

### Variable speed control saves energy



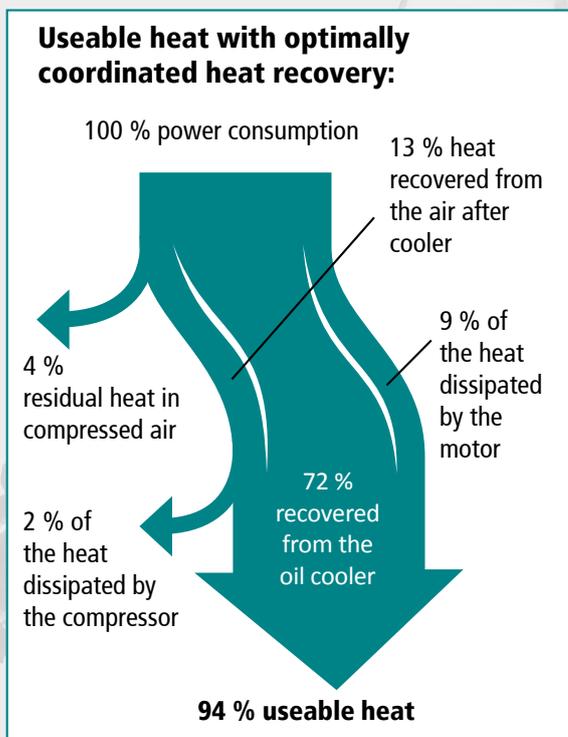
Operating RENNER's variable speed compressors enables you to save up to 35% of the energy cost. This results in savings of about 25%. Thus the end user's entire energy balance has been substantially improved.

## Optional: Internal and external heat recovery.

When using screw compressors, a large amount of heat is generated in addition to the desired main product – compressed air. With RENNER heat recovery, you can regain up to 85% of the energy you have already used as heat in the form of hot air, industrial water or hot water. This makes sense ecologically and saves a great deal of money!



## Heat recovery with integrated plate heat exchanger



- for RENNER screw compressors 2.2 kW – 355 kW
- standard: inlet temp 15°C, outlet 65°C (industrial water) or inlet temp 35°C, outlet 65°C (heating)
- other temperature ranges available on request
- safety heat exchanger

## External heat exchanger

The external heat exchanger impresses with very easy installation; an installer connects it to the existing water circuit. No external energy is required for operation!





## RENNER screw compressors

RS 90 – 250 with electronic control RENNERtronic

RSF 90 – 250 with electronic control RENNERtronic,  
variable speed control and filter mats

### RS 90 – 250 / RSF 90 – RSF 250

Model	Free Air Delivery								Motor power		Compressed air outlet	Dimensions D x W x H	Weight
	7,5 bar		10 bar		13 bar		15 bar		kW	HP	BSP	mm	kg
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm					
RS 90	15,55	549	13,70	484	*	*	–	–	90	120	G2½	2110 x 1356 x 1936	2094
RS 1-110	18,50	653	15,90	562	*	*	–	–	110	150	G2½	2110 x 1356 x 1936	2217
RS 2-110	18,85	666	16,40	579	*	*	–	–	110	150	G3	2587 x 1652 x 1993	2888
RS 132	23,45	828	20,40	720	*	*	–	–	132	175	G3	2587 x 1652 x 1993	3277
RS 160	27,90	985	24,85	877	*	*	–	–	160	215	G3	2587 x 1652 x 1993	3374
RS 200	*	*	*	*	*	*	–	–	200	270	*	*	*
RS 250	*	*	*	*	*	*	–	–	250	340	*	*	*
RSF 90	4,67-15,55	165-549	4,11-13,70	145-484	*	*	*	*	90	120	G2½	2110 x 1356 x 1936	2172
RSF 1-110	5,55-18,50	196-653	4,77-15,90	168-562	*	*	*	*	110	150	G2½	2110 x 1356 x 1936	2297
RSF 2-110	5,66-18,85	200-666	4,92-16,40	173-579	*	*	*	*	110	150	G3	2587 x 1652 x 1993	3008
RSF 132	7,04-23,45	249-828	6,12-20,40	216-720	*	*	*	*	132	175	G3	2587 x 1652 x 1993	3398
RSF 160	8,37-27,90	296-985	7,46-24,85	263-877	*	*	*	*	160	215	G3	2587 x 1652 x 1993	3484
RSF 200	*	*	*	*	*	*	*	*	200	270	*	*	*
RSF 250	*	*	*	*	*	*	*	*	250	340	*	*	*

\*on request

#### Options

Options	Article-no.
Electronic control RENNERtronic Plus	05591
External motor lubrication	00846
Heat exchanger	on request

## RENNER – THE SPECIALIST IN COMPRESSORS



Established in 1994, this family owned business employs a highly motivated and successful team specialising in the development and production of economic compressor systems. The structure and size of the company guarantees flexible decision-making and quick realisation, thus ensuring that new developments meet the needs of the market.

### THE RENNER MANUFACTURING AND SUPPLY PROGRAMME:

We can supply you with the right compressor for any application – guaranteed.

#### SCREW COMPRESSORS:

- from 2.2 – 355.0 kW, also for oil-free compressed air of breathable quality
- water-injected screw compressors from 18.5 – 120.0 kW 
- up to 40 bar, e.g. for manufacturing of PET bottles
- compact units with air receiver, refrigerant dryer and frequency control
- compressors with heat exchanger – saves energy and money!
- customised models, mobile/portable, built-in units, designed to customer specifications
- for special applications: gas compression, operation of drilling apparatus, rail and special-purpose vehicles

#### SCROLL COMPRESSORS:

- for oil-free compressed air from 1.5 to 30.0 kW



#### PISTON COMPRESSORS:

- from 1.5 – 11.0 kW
- stationary or mobile, with or without sound insulation

#### COMPRESSED AIR ACCESSORIES:

- compressed air filters, air receivers, refrigeration dryers, adsorption dryers, condensate drains and oil/water separation systems

Supplied by your RENNER distributor:

### RENNER GmbH · Kompressoren

Emil-Weber-Straße 32  
D-74363 Güglingen

Telefon +49 (0) 7135 93193-0  
Fax +49 (0) 7135 93193-50

E-Mail: [info@renner-kompressoren.de](mailto:info@renner-kompressoren.de)  
[www.renner-kompressoren.de](http://www.renner-kompressoren.de)

