

COMPRESSED AIR
PUSHING YOU FORWARD

SCREW COMPRESSORS

RSF REVOLUTION D
DIRECT DRIVE



MOTOR POWER: 55.0 – 90 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.

With the RSF REvolution D series, emphasis was placed on an energy-efficient and powerful compressed air supply in an open design, as well as good accessibility to maintenance parts.



DESIGN FEATURES AND ADVANTAGES OF THE RSF REVOLUTION D SERIES

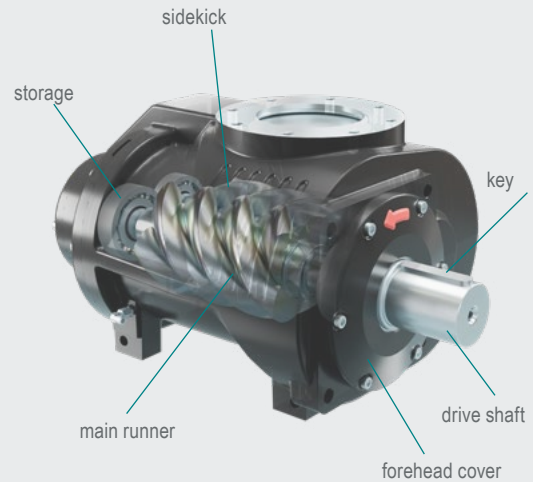


Image: PRO 28

- Easily removable doors allow easy access to individual components for maintenance.
- Intensive cooling in combination with an effective oil and compressed air cooler guarantees operational reliability and good 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.
- Effective sound insulation, mounting of the motor and compressor stage as well as the compressor housing on vibration-damping metal. This ensures low-noise and low-vibration installation – even in operating rooms.
- Control: Standard RENNERtronic Touch / optional RENNERtronic Plus Touch.
- Separate oil tank with internal fine separator.
- Highly efficient drive concept.

SAVE ENERGY WITH RENNER COMPRESSORS

About 60,000 compressed air stations in Germany consume 14 billion kWh of electricity annually. This corresponds to 7% of the electricity consumption of all German industrial plants. The energy savings potential of 30% is immense (4.2 billion kWh)! Moreover your commitment can contribute to reducing environmental pollution.

Compressed air stations work in the most efficient and economical way, if the entire system has been fine-tuned. RENNER, the experienced German manufacturer of quality compressor systems, together with its reliable local distributors, can meet these requirements and get the job done for you.

DO YOU KNOW HOW MUCH ENERGY YOU CAN SAVE?

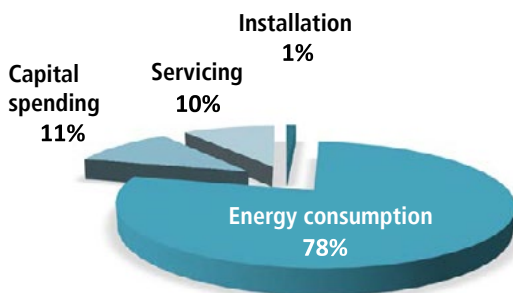
Our partners in distribution are qualified to check your compressed air station in order to determine your savings potential and guarantee long-term economical operation. We can demonstrate to you, how you could benefit by bringing down your operating cost and making an active contribution to reducing CO₂ emissions at the same time.



RENNER VARIABLE SPEED CONTROL (REFLEX)

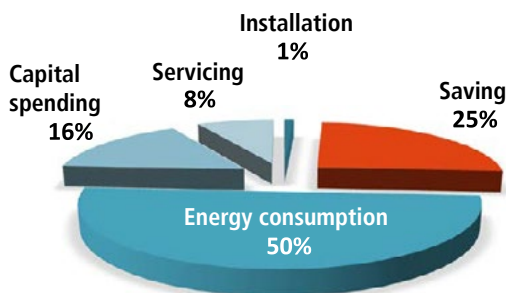
Strong fluctuations of compressed air cannot be avoided in many operations. RENNER screw compressors with variable speed control guarantee a cost efficient steady flow of compressed air. The compressor speed adapts to the actual need for compressed air with variable speed control. This guarantees economic operation.

COMPARING TOTAL COST AFTER 5 YEARS:



Fixed speed compressors:

After 5 years of operation, the energy cost usually amounts to 78% of the total cost of a conventional compressor. The only way to reduce the overall cost is to reduce the cost of energy.



RENNER's compressor

with variable speed control:

A RENNER compressor can save up to 35% of your energy costs in five years. This yields total savings of 25% of your compressor station and improves your overall energy balance considerably.

OPERATING MODE

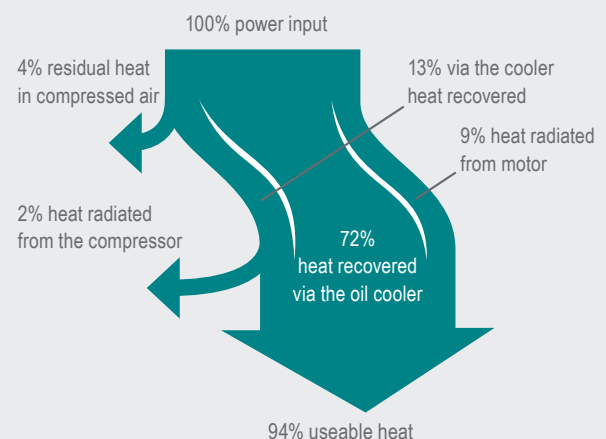
- Free air delivery and control range adjust automatically to current pressure.
- Speed and load limits of the motor are observed.
- If pressure drops due to high air consumption, the REflex function releases reserves that increase free air delivery → Reliability of supply.
- The pressure range from 6 to 10 bar can be configured variably without changing drive elements.

OPTIMUM USE OF ENERGY

- Use of an efficient control system for compressors
- Use of heat recovery systems
- Use of advanced compressed air piping systems without leakage
- Regular service by factory-trained service technicians

HEAT RECOVERY

When using screw compressors, a large amount of heat is also generated in addition to the actual main product – compressed air. With RENNER heat recovery, you can regain up to 94% of the energy you have already used as heat in the form of hot air, industrial water or hot water. This makes perfect sense ecologically and saves a lot of money!



ELECTRONIC CONTROL

RENNERTRONIC TOUCH



Smartphone-like operation

Intuitively operable touchscreen on state-of-the-art technology.



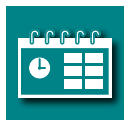
Events history

The last 50 messages are displayed including date and time.



Pressure and temperature diagram

Extensive statistics on pressure and temperature diagrams with hourly scaling.



Scheduler with six channels

This can be used to switch the four pressure bands, four potential-free relay contacts or the compressor.



USB port

Updates can be easily uploaded using a USB stick.



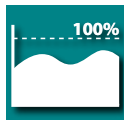
Replacing the control

RENNERtronic Touch (4,3" touchscreen) and RENNERtronic Plus Touch (7" touchscreen) are easily interchangeable.



Service indicator

Maintenance message will be shown when the set operating hour intervals is reached or at the latest after one year.



Display of compressor utilisation

Recording of operating and load hours as well as the percentage load for compressors with variable speed control.



Different code levels

Parameter access is restricted depending on the code level and the compressor is thus protected against unauthorised access.



Flexible inputs and outputs

Freely assignable and inscribable digital inputs as well as four potential-free outputs.



Control of frequency converter

The direct connection via RS485 bus interface eliminates the need for a separate converter display. Exchange of information in **plain text**.

INDUSTRY 4.0 FOR YOUR COMPANY





ELECTRONIC CONTROL

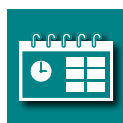
RENNERTRONIC PLUS TOUCH

The RENNERtronic Plus Touch fulfils all the functions of the RENNERtronic Touch. But it can do even more!



7" touchscreen

Overview a multitude of information simultaneously and clearly.



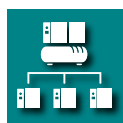
Scheduler with eight channels

In addition, priorities for Base Load Change Over can also be assigned via the scheduler.



Pressure and temperature diagram

Extensive statistics on pressure and temperature diagrams with daily, weekly and monthly scaling.



Base Load Change Over

The software is equipped with an extensive Base Load Change Over. This is connected via an additional interface module (Modbus). This allows you to control up to eight additional compressors. The compressors are connected with a network cable.

BASE LOAD CHANGE OVER

- Even workload for all compressors in terms of operating hours.
- Maintenance work can be done during operation.
- All compressors are activated with the same switch on/off pressure.
- High potential for energy savings.
- High efficiency for fluctuating air demand.
- User-friendly configuration.
- Compressors from other manufacturers can be connected.

SCREW COMPRESSOR

RSF REVOLUTION D SERIES 55.0 – 90 KW

OIL INJECTED
DIRECT DRIVE
AIR-COOLED

The open design of the compression system in the RSF REvolution D series complements the traditionally installed compact compression system from RENNER. This series impresses with its direct drive unit, which is quiet, efficient and powerful, ensuring a consistently high compressed air delivery rate with good air quality.

HOUSING CONSTRUCTION

Removable doors and housing struts ensure that all components are easily accessible from one side. For quick and easy maintenance.

CONTROL

The user-friendly RENNERtronic Touch compressor control with a 4.3-inch touch-screen display ensures a high level of operating and information comfort. Mains pressure and temperature display, free air delivery, load running, temperature and events are immediately visible.

PRE-FILTER GRILLE

For protection against contamination in the intake air and internal components in frequency-controlled compressors. Easy maintenance thanks to magnetic grille.

AIR-END

Screw compressors 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.

ELECTRIC MOTOR

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

DIRECT DRIVE

The Direct Drive connects the compressor block to the electric motor via a coupling. The virtually loss-free power transmission guarantees reliable and efficient operation of the compressor.



THE RELIABLE POWER PROFESSIONAL FOR EFFICIENT COMPRESSED AIR IN INDUSTRIAL USE

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*
- Construction industry: *sandblasting, construction equipment supply*
- Energy and environmental technology: *sewage treatment plants, biogas plants*
- Textile industry: *weaving machines, spinning mills*
- and much more.



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

Product film



HIGHLIGHTS OF THE SERIES

REFLEX FUNCTION

All frequency-controlled compressors from RENNER are equipped with a REFLEX function. Depending on the model, the pressure range can be set individually according to the respective requirements.

FREQUENCY CONVERTER

Standard equipment for the RSF Revolution D series. The frequency converter, which is located in the control cabinet, is optimally protected against dust and easily accessible.

OIL LEVEL MONITORING

The oil level is measured by an oil level sensor. If the oil level is too low, a fault message is displayed on the control system.

DETAILS OF THE SERIES



COMPRESSION SYSTEM

Compressor and separate vertical oil tank with integrated fine separation ensure reliable operation. With only 6 screws, the oil tank cover can be quickly opened for maintenance of the fine separator.



COOL AIR FLOW

Targeted and spatially separated cooling air flow ensures reduced noise levels, optimum operating conditions and a long service life for compressors, electric motors and electrical components.



RADIAL FANS AND COOLERS

The temperature-controlled fan ensures optimum cooling and quiet operation. Thanks to good residual pressure, direct connection to an exhaust air duct is possible. First-class heat transfer thanks to combination cooler (oil-compressed air aftercooler).

TECHNICAL DATA

RSF REVOLUTION D SERIES

55.0 – 90 KW



Compressed air outlet

Inch

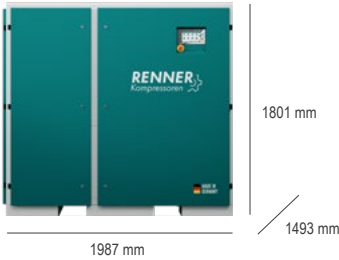
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Motor power		model	Free air delivery m³/min (REflex) ⁽¹⁾																		Noise level
			5 - 9.5 bar								5 - 13 bar										
			min.		5 bar		7.5 bar		9.5 bar		min.		5 bar		7.5 bar		10 bar		13 bar		
kW	hp		m³/min	cfm	m³/min	cfm	m³/min	cfm	m³/min	cfm	m³/min	cfm	m³/min	cfm	m³/min	cfm	m³/min	cfm	m³/min	cfm	dB(A) ⁽²⁾
55.0	74	RSF Revolution 55.0 D	4,09	144	12,64	446	10,98	388	9,02	319	3,86	136	12,64	446	10,98	388	8,96	316	6,58	232	72
75	101	RSF Revolution 75 D	4,01	142	15,46	546	13,32	470	11,75	415	3,72	131	15,46	546	13,32	470	11,43	404	8,77	310	73
90	121	RSF Revolution 90 D	-	-	-	-	-	-	-	-	6,05	214	18,18	642	16,42	580	14,25	503	11,61	410	74

⁽¹⁾ in accordance with ISO 1217 Annex E ⁽²⁾ in accordance with standard DIN EN ISO 2151:2009

RSF REVOLUTION D

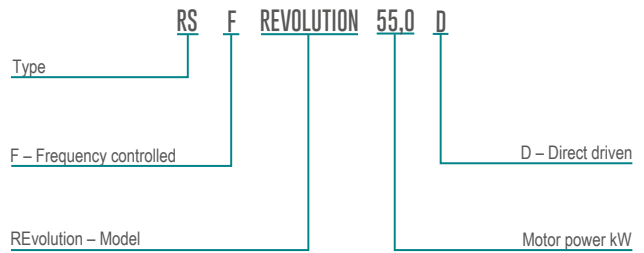
55.0 – 90 KW



STANDARD EQUIPMENT

- Initial oil filling: RENNER Special
- RENNERtronic Touch
- REflex function: The maximum free air delivery is adjusted continuously when the current limit levels are reached.
- Motor efficiency class: IE 5 (55.0 kW) & IE 4 (75 & 90 kW)
- emergency stop button
- front filter grille

TYPE KEY SERIES RSF REVOLUTION



OPTIONS

control

- RENNERtronic Plus Touch electronic control system
- Modbus RTU module (RENNERtronic (Plus) Touch)

electrical system

- Remote ON/OFF accessory switch incl. box for wall mounting
- Profinet connection (RENNERtronic (Plus) Touch)
- Profibus connection (RENNERtronic (Plus) Touch)
- Modbus TCP connection (RENNERtronic (Plus) Touch)
- System pressure sensor for compressors with RENNERtronic Touch
- Signal tower 24 V AC/DC, three-colour (red, yellow and green), for displaying faults, warnings and maintenance as well as operating messages. Includes mounting bracket for wall mounting.

heat recovery

- External heat exchanger box ET15°C/AT65°C
- External heat exchanger box ET35°C/AT65°C
- External safety heat exchanger box ET15°C/AT65°C
- External safety heat exchanger box ET35°C/AT65°C
- Heat exchanger installed ET15/35°C/AT65°C
- Retrofit kit including heat exchanger ET15/35°C/AT65°C
- Safety heat exchanger installed ET15/35°C/AT65°C
- Retrofit kit incl. safety heat exchanger ET15/35°C/AT65°C
- Preparation of heat exchanger box
- Retrofit kit for heat exchanger box

Further options available on request

- water cooling
- Heat recovery at 90 kW

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.

Air receiver

We offer suitable air receivers for optimum storage and buffering of the compressed air generated. They ensure a consistent pressure curve and increase the efficiency of your compressed air system.

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.



RSF-PRO D - 02/2026

THE RENNER PRODUCT PORTFOLIO

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

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



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