

COMPRESSED AIR
PUSHING YOU FORWARD

SCREW COMPRESSORS

RS-PRO 3.0 - 55.0
RSF-PRO 5.5 - 55.0
BELT DRIVE



MOTOR POWER: 3.0 - 55.0 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

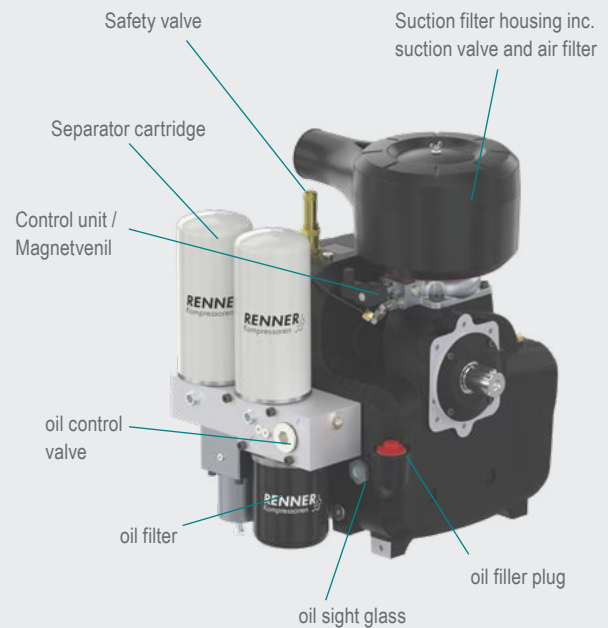
Oil-injected Screw Compressors enable, in the corresponding performance range: the most modern and economical method of compressed air generation. RENNER is fully committed to this compression principle. The performance range extends from 2.2 to 355 kW with a final pressure of up to 15 bar.

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

With the RS(F)-PRO series, emphasis was placed on a powerful compressed air supply, low space requirements and easily accessible maintenance parts.



DESIGN FEATURES AND ADVANTAGES OF THE RS(F)-PRO SERIES



- Easily removable doors allow easy access to the individual components for maintenance.
- The right solution for every case: available as a basic machine, with an attached refrigeration dryer or as a complete unit.
- Intensive cooling in conjunction with an effective aftercooler guarantees operational safety and good air quality.
- Developed for industrial use - also in continuous operation.
- Standardised components from German brand manufacturers guarantee a high quality standard and enable short response times in the event of faults.
- Compact compressor air-end without additional connecting lines and elements.
There is no need for a separate oil separator tank.
- Mounting of the motor and the compact compressor air-end as well as the compressor housing on vibrating metals. This ensures low-noise and low-vibration installation - even in operating rooms.
- Control system: RENNERtronic Touch as standard, optional RENNERtronic Plus Touch.

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?

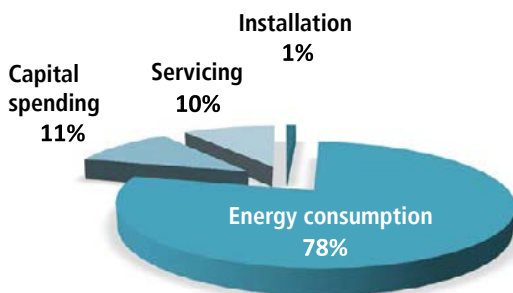
Our partners in distribution are qualified to check your compressed air station in order to determine your savings potential and guarantee long-term economical operation. We can demonstrate to you, how you could benefit by bringing down your operating cost and making an active contribution to reducing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



RENNER VARIABLE SPEED CONTROL (REFLEX)

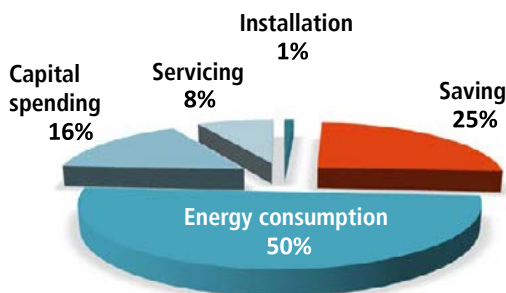
Strong fluctuations of compressed air cannot be avoided in many operations. RENNER screw compressors with variable speed control guarantee a cost efficient steady flow of compressed air. The compressor speed adapts to the actual need for compressed air with variable speed control. This guarantees economic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

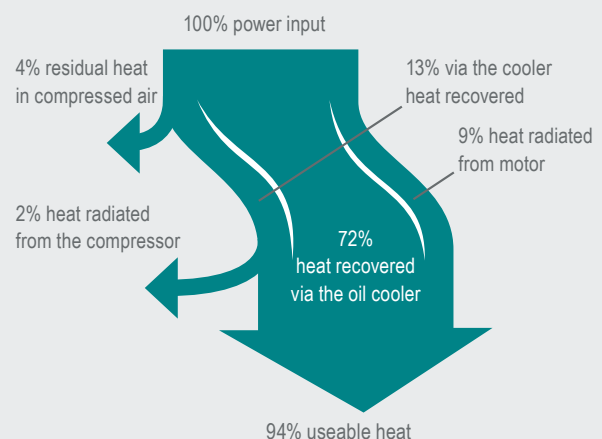
- Free air delivery and control range adjust automatically to current pressure.
- Speed and load limits of the motor are observed.
- If pressure drops due to high air consumption, the REflex function releases reserves that increase free air delivery → Reliability of supply.
- The pressure range from 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!



SCREW COMPRESSOR

SERIES RS(F)-PRO 3.0 - 55.0 KW 5.0 - 74 HP

OIL-INJECTED
BELT DRIVE
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. Models with "F" = frequency converter offers significantly higher efficiency and low operating costs thanks to variable speed control.

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

Removable housing covers provide easy access to all components. In addition, an attached sound insulation box ensures a reduced noise level.

CONTROL SYSTEM

The robust RENNERlogic control system with pressure and temperature display, operating hour meter, ON / OFF switch and Emergency stop button as standard equipment. The RENNERtronic Touch (standard on frequency-controlled executions) and RENNERtronic Plus Touch control systems with base load change function are available as options for greater ease of use.

ENGINE MOUNT

Optimised power transmission and quiet operation. This allows for quick and easy service-oriented V-belt tensioning.

REFRIGERATION DRYER

The attached refrigeration dryer reduces the moisture content to a pressure dew point of +3°C. With refrigerant **R513A**

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.

ELECTRIC MOTOR

Highly efficient IE-3 motor in grey cast housing with guided cooling air flow for reliable operation and a long service durability.



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*
- Workshops & craft businesses: *Tools and machinery*
- and much more.



With the SAFETY 5 benefit programme you increase your security of supply for 5 years



HIGHLIGHTS OF THE SERIES

FREQUENCY CONVERTER

Standard equipment for the RSF-PRO series. The frequency converter is separated from the machine's supply air by a partition wall, providing optimum protection against contamination.

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.

AIR RECEIVER

Galvanized or powder coated, available in various volumes. 250 litres, galvanized 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 space-saving RSDKF-PRO 7.5 model with a 250-litre air receiver and attached RKT-A refrigeration dryer with Refrigerant **R513A** including the optional pre-filter grille.



COMPACT 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.



FILTER GRILLE

For protection against contamination in frequency-controlled compressors. The grilles are very easy to detach using magnets and the filter can therefore be replaced in no time at all.

TECHNICAL DATA

SERIES RS-PRO 3.0 - 55.0 KW 5.0 - 74 HP



³ R513A
refrigerant

⁴ AD2000
Directive

Compressed air outlet inch

3,0 - 11,0	2- 11,0 - 18,5	2- 15,0 2- 18,5 - 22,0	26,0 - 2- 37,0	45,0 - 55,0
G 1/2	G 3/4	G 1	G 1 1/4	G 1 1/2

Rated power		Model	Delivery quantity m ³ /min ⁽¹⁾				sound level dB(A) ⁽²⁾
kW	hp		7,5 bar	10 bar	13 bar	15 bar	
3.0	5.0	RS(D)(K)-PRO 3,0	0,54	0,41	0,29	0,24	67
4.0	6.0	RS(D)(K)-PRO 4,0	0,69	0,55	0,44	0,37	67
5.5	8.0	RS(D)(K)-PRO 5,5	0,91	0,78	0,61	0,51	67
7.5	11.0	RS-PRO 7,5	1,25	1,09	0,86	0,79	67
11.0	15.0	RS-PRO 11,0	1,61	1,56	1,29	1,11	74
11.0	15.0	RS(D)(K)-PRO 2-11	1,88	1,61	1,30	1,12	69
15.0	21.0	RS-PRO 15,0	2,67	2,31	1,86	1,69	72
15.0	21.0	RS-PRO 2-15,0	2,72	2,37	1,92	1,62	68
18.5	25.0	RS(D)(K)-PRO 18,5	2,82	2,45	1,96	1,78	74
18.5	25.0	RS-PRO 2-18,5	3,41	2,91	2,40	2,06	73
22.0	30.0	RS-PRO 22,0	3,93	3,44	2,72	2,51	76
26.0	35.0	RS-PRO 26,0	4,43	3,88	3,26	2,95	73
30.0	41.0	RS-PRO 30,0	5,15	4,51	3,97	3,38	74
30.0	41.0	RS-PRO 2-30,0	5,22	4,61	3,59	3,29	74
37.0	50.0	RS-PRO 37,0	5,54	5,23	4,39	4,08	78
37.0	50.0	RS-PRO 2-37,0	6,36	5,58	4,66	4,10	77
45.0	61	RS-PRO 45,0	7,70	6,92	5,71	4,99	77
55.0	74	RS-PRO 55,0	9,02	7,94	6,93	6,09	79

⁽¹⁾ According to ISO 1217 Annex C ⁽²⁾ according to standard DIN EN ISO 2151:2009 ⁽³⁾ Refrigeration dryer with Refrigerant R513A ⁽⁴⁾ Air receiver in accordance with AD2000 guidelines (from 250 litres with hand hole) ⁽⁵⁾ ECN air receiver in accordance with AD2000 guidelines (with 2-inch viewing port)

EXECUTIONS

Air receiver

90 litres⁴, galvanized (up to 5.5 kW)

2x90 litres⁴, galvanized (up to 7.5 kW)

250 litres⁴, galvanized (up to 15.0 kW)

500 litres⁴, galvanized (up to 18.5 kW)

270 litres ECN⁵, powder coated (up to 15.0 kW)

500 litres ECN⁵, powder coated (up to 15.0 kW)

Compressed air treatment

Refrigeration dryer with time-controlled condensate drain (up to 11.0 kW)

Refrigeration dryer with level-controlled condensate drain

RS-PRO 3.0 - 55.0 KW



1014 - 1760 mm

553 - 880 mm

540 - 1485 mm

RSK-PRO 3.0 - 45.0 KW Version with refrigeration dryer



1014 - 1760 mm

553 - 880 mm

994 - 1834 mm

RSDK-PRO 2X90 3.0 - 7.5 KW

Version
with refrigeration dryer and
2x90l air receiver



1550 mm

755 mm

1035 mm

RSDK-PRO 500 3.0 - 18.5 KW

Version
with refrigeration dryer and
500 litre air receiver



1729 - 1826 mm

668 - 710 mm

1778 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 including time- or level-controlled condensate drain (pressure dew point 3°C)
- Metal buffer set for 2x90 air receivers
- Soundproofing box (from 2-11.0)

OPTIONS

Control system

- RENNERtronic Touch electronic control system
- RENNERtronic Plus Touch electronic control unit
- RENNERSimply-connect

Drive systems

- Surcharge for IE4 motor
- Air end (surcharge for pneumatic intake regulator)
- Standby heating installed
- Retrofit kit for standby heating

Air receiver

- Metal buffer set
- Air receiver drainage kit incl. level-controlled condensate drain

Refrigeration dryer

- Level-controlled condensate drain for refrigeration dryers

Electric

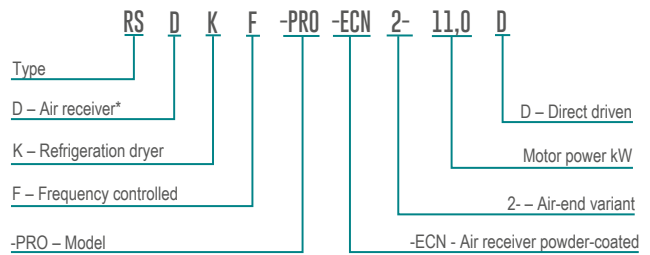
- AWAL (RENNERlogic)
- CEE phase reversal plug mounted on connection cable
- Timer (RENNERlogic)
- External timer with manual switch function in wall-mounted box
- Direction of rotation monitoring via phase sequence relay
- Remote ON/OFF accessory switch incl. box for wall mounting

Air flow

- Exhaust air box RS-PRO / RSD-PRO / RSD-PRO-ECN 3.0 - 11.0
- Magnetic execution filter grille

TYPE KEY SERIES RS-PRO

*galvanised as standard



Heat recovery from 7.5 kW

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

Noise reduction (from 15.0 kW)

- Super sound-absorbing baffle (sound level - 4dB / exhaust air side)
- Super sound attenuation baffle (sound level - 4dB / suction side, 2 pieces required)

Noise reduction

- Soundproofing box RS-PRO 3.0 - 11.0 (sound level - 4dB / measurement L: + 200 mm / Weight: + 14 kg)

Further options available on request

- Water cooling

ACCESSORIES

Control systems

Base Load Change Over Control (Integradet) 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 Accessoires to ensure high compressed air quality.

TECHNICAL DATA

SERIES RSF-PRO 5.5 - 55.0 KW 8.0 - 74 HP



³ R513A
refrigerant

⁵ AD2000
Directive

Compressed air outlet inch

5,5 - 11,0	2- 11,0 - 18,5	2- 15,0 2- 18,5 - 22,0	26,0 - 2- 37,0	45,0 - 55,0
G 1/2	G 3/4	G 1	G 1 1/4	G 1 1/2

Rated power		Model	Delivery quantity m ³ /min (Reflex) ^{(1) (5)}						sound level dB(A) ⁽²⁾
kW	hp		min.	6 bar	8 bar	10 bar	13 bar	15 bar	
5.5	8.0	RS(D)(K)F-PRO 5.5	0,27	0,98	0,90	0,78	0,31 - 0,61	0,26 - 0,51	62
7.5	11.0	RS(D)(K)F-PRO 7.5	0,33	1,37	1,24	1,09	0,43 - 0,86	0,40 - 0,79	62
11.0	15.0	RS(D)(K)F-PRO 11.0	0,42	1,64	1,60	1,56	0,65 - 1,29	0,56 - 1,11	69
11.0	15.0	RS-PRO 2-11.0	0,45	2,04	1,82	1,61	1,38	1,26	68
15.0	21.0	RS(D)(K)F-PRO 15.0	0,57	2,74	2,57	2,31	1,92	1,76	71
15.0	21.0	RS(K)F-PRO 2-15.0	1,30	3,18	2,78	2,37	1,19 - 1,95	1,13 - 1,70	65
18.5	25.0	RS-PRO 18.5	0,88	2,82	2,64	2,45	0,98 - 1,96	0,89 - 1,78	73
18.5	25.0	RS-PRO 2-18.5	1,36	3,98	3,55	3,20	1,21 - 2,57	1,17 - 2,27	70
22.0	30.0	RS-PRO 22.0	1,32	4,40	3,99	3,54	1,24 - 2,93	1,18 - 2,68	73
26.0	35.0	RS-PRO 26.0	1,94	4,90	4,44	4,09	1,91 - 3,39	1,84 - 3,02	70
30.0	41.0	RS-PRO 30.0	2,05	5,60	5,09	4,51	1,92 - 3,90	1,84 - 3,54	71
30.0	41.0	RS-PRO 2-30.0	1,61	5,11	4,89	4,42	1,01 - 3,59	0,85 - 3,29	69
37.0	50.0	RS-PRO 37.0	1,98	5,77	5,49	5,30	1,94 - 4,60	1,89 - 4,16	75
37.0	50.0	RS-PRO 2-37.0	2,08	6,82	6,28	5,82	1,33 - 4,66	1,11 - 4,10	72
45.0	61	RS-PRO 45.0	2,52	8,32	7,63	6,86	1,69 - 5,71	1,45 - 4,99	74
55.0	74	RSF-PRO 55.0	2,84	8,79	8,27	7,74	2,01 - 6,93	1,73 - 6,09	76

⁽¹⁾ According to ISO 1217 Annex E ⁽²⁾ According to standard DIN EN ISO 2151:2009 ⁽³⁾ Refrigeration Dryer with Refrigerant R513A ⁽⁴⁾ Air receiver according to AD2000 guidelines (from 250 litres with hand hole) ⁽⁵⁾ Reflex control system: infinitely variable ⁽⁶⁾ ECN air receiver in accordance with AD2000 guidelines (with 2-inch viewing port)

EXECUTIONS

Air receiver

- 90 litres⁴, galvanized (5.5 kW only)
- 2x90 litres⁴, galvanized (up to 7.5 kW)
- 250 litres⁴, galvanized (up to 15.0 kW)
- 500 litres⁴, galvanized (up to 18.5 kW)
- 270 litres ECN⁶, powder coated (up to 18.5 kW)
- 500 litres ECN⁶, powder coated (up to 18.5 kW)

Compressed air treatment

- Refrigeration dryer with time-controlled condensate drain (up to 11.0 kW)
- Refrigeration dryer with level-controlled condensate drain

RSF-PRO 5.5 - 55.0 KW



553 - 880 mm

1014 - 1760 mm

824 - 1680 mm

RSKF-PRO 5.5 - 45.0 KW

Version
with Refrigeration dryer



553 - 880 mm

1014 - 1760 mm

1079 - 2030 mm

RSDKF-PRO 2X90 5.5 - 7.5 KW

Version
with Refrigeration dryer and
2x90l air receiver



755 mm

1550 mm

1120 mm

RSDKF-PRO 500 5.5 - 18.5 KW

Version
with Refrigeration dryer and
500 litre air receiver



668 - 710 mm

1729 - 1826 mm

1778 mm

STANDARD EQUIPMENT

- Initial oil filling: RENNER Special
- RENNERtronic Touch
- REflex function: the Max. flow rate is continuously adjusted when the current limit is reached
- Motor efficiency class: IE 3
- Emergency stop button
- 5 m supply cable, stripped with sleeves
- manual ball valve
- Variant with refrigeration dryer including time- or level-controlled condensate drain (dew point 3°C)
- Sound insulation box incl. attachment filter grille
- Metal buffer set for 2x90 air receivers

OPTIONS

Control system

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

Drive systems

- Surcharge for IE4 motor
- Standby heating installed
- Retrofit kit for standby heating

Air receiver

- Metal buffer set for 90-litre air receiver
- Tank drainage attachment kit incl. level-controlled steam trap

Refrigeration dryer

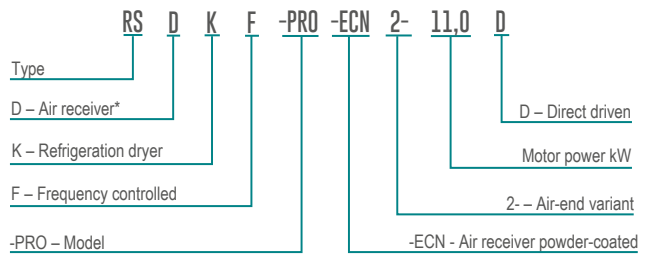
- Level-controlled condensate drain for refrigeration dryers

Electric

- CEE phase reversal plug mounted on connection cable
- 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, free colour (red, yellow and green), for displaying faults, warnings and maintenance as well as operating messages. Includes mounting bracket for wall mounting.

TYPE KEY SERIES RS-PRO

*galvanised as standard



Heat recovery from 7.5 kW

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

Noise reduction (from 15.0 kW)

- Super sound-absorbing baffle (sound level - 4dB / exhaust air side)
- Super sound attenuation baffle (sound level - 4dB / suction side, 2 pieces required)

Further options available on request

- Water cooling Heat recovery

ACCESSORIES

Control systems

Base Load Change Over Control (Integradet) 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 Accessoires 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.



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



RENNER GmbH
Kompressoren
Emil-Weber-Straße 32
D-74363 Güglingen

Tel. +49 7135 93193-0
Fax +49 7135 93193-50

info@renner-kompressoren.de
renner-kompressoren.com

RENNER
Kompressoren