

Screw compressors

**RS 18.5 – 75.0**  
**RSF 18.5 – 75.0**



**Motor power: 18.5 – 75.0 kW**



RS 18.5 – 75.0



RSK 18.5 – 45.0



RSF 18.5 – 75.0



RSKF 18.5 – 45.0



## RENNER GmbH Kompressoren – success rooted in tradition.

RENNER GmbH Kompressoren have been known for reliable compressed air for more than 25 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 160 employees to provide you with first-class technical advice, robust compressor engineering, and reliable service in virtually 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 the high quality standards of our oil-injected screw compressors as well as 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!



## Screw compressors

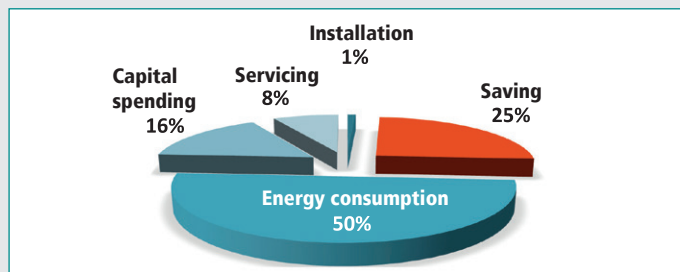
Oil-injected screw compressors in the appropriate power range nowadays represent the most modern and most economical form of compressed air generation. RENNER is dedicated to this compression principle, with a performance range extending from 2.2 – 355 kW and an end pressure of up to 15 bar. Excellent economy, long service life, and simple, economical maintenance are the most important criteria in the development of new products.

### Advantages of the RS-PRO series:

- 2-years full functional warranty
- Compact air ends, thus eliminating the need for cables and connecting elements which are the known sources of interference. A separate oil separation tank is not required.
- Effective rear duct silencer and use of rubber-bonded metals guarantee low noise and low vibration operation – also in operating rooms.
- The maintenance parts are easily accessible thanks to removable doors
- Standard components by German brand manufacturers provide a high standard of quality and flexibility

## Energy savings: compressors with variable speed control

RENNER screw compressors with variable speed control are designed for tough industrial applications. Additionally the compressors are equipped with the RENNERtronic intelligent control and monitoring system. A RENNER RSF compressor can save up to 35% of your energy costs. This yields total savings of 25% compared to fixed speed compressors. This improves your overall energy balance considerably.



## RENNER variable speed control (REFlex)

Strong fluctuations of compressed air cannot be avoided in many operations. Even in such cases compressed air can be generated economically – RENNER screw compressors with variable speed control guarantee a cost efficient steady flow of compressed air.

### Advantages of the REFlex function:

All RENNER compressors with variable speed control adapt flexibly and automatically to current pressure regarding both pressure and free air delivery. Thus the compressor provides at all times the optimally adjusted free air delivery in the set pressure range (6 to 10 bar).

- 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.

## Compressor controls

The high-quality standard control has terminals for an external on / off switch and potential-free contacts for fault and operating message. In addition, it optionally starts an automatic restart after a power failure (AWAL) and can switch off the compressor via an external interference signal.

Optionally, further controls are available instead of the RENNERlogic. Below you can see the advantages at a glance:

### RENNERtronic:

- Saves energy
- Safe operation of the compressor
- Controls and monitors the system
- Easy to use
- Greater reliability of operation
- Can be exchanged according to specific customer requirements
- Monitoring of the compressor as an option



### RENNERtronic Plus:

- Easy usability thanks to a larger display
- Real-time clock
- Internal timer with 7 channels
- Monitoring of system pressure
- Base load change over function
- Displays free air delivery, power consumption (optional) and additional information
- Numerous statistical analyses
- Profibus- and modbus interface as an option



Contact us for detailed information on the RENNER controls.





## Screw compressors

RS 18.5 – 1-30.0  
 RS-PRO 2-30.0 –55.0  
 RS 55.0  
 RS 75.0 incl. electronic control RENNERtronic

### RS 18.5 – 1-30.0 / RS-PRO 2-30.0 – 55.0 / RS 55.0 + 75.0

Model	Free air delivery <sup>(1)</sup>								Motor power		Compressed air outlet	Noise level	Dimensions L x W x H	Weight
	7.5 bar		10 bar		13 bar		15 bar		kW	HP	inch	dB(A) <sup>(2)</sup>	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 18.5	2.91	103	2.62	93	2.20	78	1.89	67	18.5	25.0	G1¼	71	1287 x 799 x 1296	532
RS 22.0	3.46	122	3.10	109	2.66	94	2.31	82	22.0	29.5	G1¼	71	1287 x 799 x 1296	547
RS 1-30.0	4.38	155	4.01	142	3.52	124	3.02	107	30.0	40.0	G1¼	72	1287 x 799 x 1296	609
RS-PRO 2-30.0	5.22	184	4.61	163	3.59	127	3.29	117	30.0	40.0	G1¼	74/71 <sup>(3)</sup>	1305 x 830 x 1640	746/779 <sup>(3)</sup>
RS-PRO 2-37.0	6.36	225	5.58	197	4.66	165	4.10	145	37.0	49.5	G1¼	77/74 <sup>(3)</sup>	1305 x 830 x 1640	762/795 <sup>(3)</sup>
RS-PRO 45.0	7.70	272	6.92	244	5.71	202	4.99	176	45.0	60.5	G1½	77/74 <sup>(3)</sup>	1485 x 880 x 1760	939/986 <sup>(3)</sup>
RS-PRO 55.0	9.02	319	7.94	280	6.93	245	6.09	215	55.0	74.0	G1½	79/76 <sup>(3)</sup>	1485 x 880 x 1760	1017/1064 <sup>(3)</sup>
RS 55.0	9.55	337	8.23	291	7.05	249	6.23	220	55.0	74.0	G2	76	1754 x 1104 x 1697	1257
RS 75.0 <sup>(4)</sup>	12.10	427	10.35	365	9.20	325	8.10	286	75.0	100.0	G2	76	1754 x 1104 x 1697	1367

<sup>(1)</sup> according to ISO 1217 Annex C  
<sup>(4)</sup> standard: with RENNERtronic

<sup>(2)</sup> according to DIN EN ISO 2151:2009

<sup>(3)</sup> with rear duct silencer / with super rear duct silencer  
 All models up to RS-PRO 55.0 with ball valve and electrical feed cable.

Options	Part no.
Rotation direction control via phase rotation control	10867
Electronic control RENNERtronic	10869
Electronic control RENNERtronic Plus	00829
Electronic control RENNERtronic Plus for RS 75.0	05591
External motor greasing (only RS 75.0)	00846
Rear duct silencer for RS-TOP (sound reduction of about 4 dB)	11.0 + 15.0 kW Compressor overall dimensions: length +270 mm 21266
Super rear duct silencer for RS-PRO (sound reduction of about 3 dB)	30.0 + 37.0 kW Compressor overall dimensions: length +96 mm 07659
Super rear duct silencer for RS-PRO (sound reduction of about 3 dB)	45.0 + 55.0 kW Compressor overall dimensions: length +196 mm 07595
IE4 motor	on request

## Screw compressors

RSF 18.5 – 1-30.0  
RSF-PRO 2-30.0 – 55.0  
RSF 55.0 + 75.0

all with variable speed control, pre-filter frames and electronic control RENNERtronic



### RSF 18.5 – 1-30.0 / RSF-PRO 2-30.0 – 55.0 / RSF 55.0 + 75.0

Model	Free air delivery (REflex) <sup>(1)(2)</sup>								Free air delivery <sup>(1)</sup>				Motor power		Compressed air outlet	Noise level	Dimensions L x W x H	Weight
	min.		max. at 6 bar		max. at 8 bar		max. at 10 bar		13 bar		15 bar		kW	HP				
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm			inch	dB(A) <sup>(3)</sup>	mm	kg
RSF 18.5	0.98	34	3.14	111	2.88	102	2.62	93	0.82-2.20	29-78	0.70-1.89	25-67	18.5	25.0	G1¼	71	1287 x 799 x 1296	573
RSF 22.0	1.15	41	3.72	131	3.41	120	3.10	109	0.99-2.66	35-94	0.86-2.31	30-82	22.0	30.0	G1¼	71	1287 x 799 x 1296	588
RSF 1-30.0	1.50	53	4.81	170	4.41	156	4.01	142	1.32-3.52	47-124	1.13-3.02	40-107	30.0	40.0	G1¼	72	1384 x 799 x 1296	667
RSF-PRO 2-30.0	1.68	59	5.68	200	5.23	185	4.61	163	1.01-3.59	36-127	0.85-3.29	30-115	30.0	40.0	G1¼	69	1400 x 830 x 1640	850
RSF-PRO 2-37.0	2.10	74	6.96	246	6.64	234	5.87	207	1.33-4.66	47-165	1.11-4.10	39-144	37.0	49.5	G1¼	72	1400 x 830 x 1640	880
RSF-PRO 45.0	2.58	91	8.54	302	7.78	275	7.02	248	1.69-5.71	60-201	1.45-4.99	51-175	45.0	60.5	G1½	74	1680 x 880 x 1760	1120
RSF-PRO 55.0	3.00	106	9.34	330	8.95	316	8.19	289	2.01-6.93	71-245	1.73-6.09	60-213	55.0	74.0	G1½	76	1680 x 880 x 1760	1198
RSF 55.0	3.28	116	10.20	360	9.21	325	8.23	291	2.64-7.05	93-249	2.33-6.23	82-220	55.0	75.0	G2	76	1754 x 1104 x 1697	1297
RSF 75.0	4.19	148	12.83	453	11.59	409	10.35	366	3.66-9.20	129-325	3.23-8.10	114-286	75.0	100.0	G2	76	1754 x 1104 x 1697	1440

<sup>(1)</sup> according to ISO 1217 Annex E    <sup>(2)</sup> REflex function: 6 to 10 bar, continuously variable    <sup>(3)</sup> according to DIN EN ISO 2151:2009  
All models up to RSF-PRO 55.0 with ball valve and electrical feed cable.

Options	Part no.
Electronic control RENNERtronic Plus	05591
IE4 motor	on request



## Screw compressors

RSK 18.5 – 1-30.0  
RSK-PRO 2-30.0 – 45.0

all with refrigeration dryer

### RSK 18.5 – 1-30.0 / RSK-PRO 2-30.0 – 45.0

Model	Free air delivery <sup>(1)</sup>								Motor power		Compressed air outlet	Noise level	Dimensions L x W x H	Weight
	7.5 bar		10 bar		13 bar		15 bar		kW	HP	inch	dB(A) <sup>(2)</sup>	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						
RSK 18.5	2.91	103	2.62	93	2.20	78	1.89	67	18.5	25.0	G1¼	71	1632 x 799 x 1296	583
RSK 22.0	3.46	122	3.10	109	2.66	94	2.31	82	22.0	29.5	G1¼	71	1636 x 799 x 1296	630
RSK 1-30.0	4.38	155	4.01	142	3.52	124	3.02	107	30.0	40.0	G1¼	72	1636 x 799 x 1296	692
RSK-PRO 2-30.0	5.22	184	4.61	163	3.59	127	3.29	117	30.0	40.0	G1¼	74/71 <sup>(3)</sup>	1654 x 830 x 1640	829/862 <sup>(3)</sup>
RSK-PRO 2-37.0	6.36	225	5.58	197	4.66	165	4.10	145	37.0	49.5	G1¼	77/74 <sup>(3)</sup>	1654 x 830 x 1640	845/878 <sup>(3)</sup>
RSK-PRO 45.0	on request		6.92	244	5.71	202	4.99	176	45.0	60.5	G1½	77/74 <sup>(3)</sup>	1834 x 880 x 1760	1022/1069 <sup>(3)</sup>

<sup>(1)</sup> according to ISO 1217 Annex C    <sup>(2)</sup> according to DIN EN ISO 2151:2009    <sup>(3)</sup> with rear duct silencer / with super rear duct silencer  
All models with ball valve and electrical feed cable.

Options	Part no.
Rotation direction control via phase rotation control	10867
Electronic control RENNERtronic	10869
Electronic control RENNERtronic Plus	00829
Super rear duct silencer for RSK-PRO (sound reduction of about 3 dB)    30.0 + 37.0 kW	Compressor overall dimensions: length +96 mm 07659
Super rear duct silencer for RSK-PRO (sound reduction of about 3 dB)    45.0 kW	Compressor overall dimensions: length +196 mm 07595
Level actuated drain for refrigeration dryer	05311
IE4 motor	on request

## Screw compressors

RSKF 18.5 – 1-30.0  
RSKF-PRO 2-30.0 – 45.0

all with refrigeration dryer, variable speed control, pre-filter frames and electronic control RENNERtronic



### RSKF 18.5 – 1-30.0 / RSKF-PRO 2-30.0 – 45.0

Model	Free air delivery (REflex) <sup>(1)(2)</sup>								Free air delivery <sup>(1)</sup>				Motor power		Compressed air outlet	Noise level	Dimensions L x W x H	Weight
	min.		max. at 6 bar		max. at 8 bar		max. at 10 bar		13 bar		15 bar		kW	HP				
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm			inch	dB(A) <sup>(3)</sup>	mm	kg
RSKF 18.5	0.98	34	3.14	111	2.88	102	2.62	93	0.82-2.20	29-78	0.70-1.89	25-67	18.5	25.0	G1¼	71	1632 x 799 x 1296	624
RSKF 22.0	1.15	41	3.72	131	3.41	120	3.10	109	0.99-2.66	35-94	0.86-2.31	30-82	22.0	30.0	G1¼	71	1636 x 799 x 1296	671
RSKF 1-30.0	1.50	53	4.81	170	4.41	156	4.01	142	1.32-3.52	47-124	1.13-3.02	40-107	30.0	40.0	G1¼	72	1736 x 799 x 1296	750
RSKF-PRO 2-30.0	1.68	59	5.68	200	5.23	185	4.61	163	1.01-3.59	36-127	0.85-3.29	30-115	30.0	40.0	G1¼	69	1750 x 830 x 1640	933
RSKF-PRO 2-37.0	2.10	74	6.96	246	6.64	234	5.87	207	1.33-4.66	47-165	1.11-4.10	39-144	37.0	50.0	G1¼	72	1750 x 830 x 1640	963
RSKF-PRO 45.0	*	*	*	*	*	*	*	*	1.69-5.71	60-202	1.45-4.99	51-176	45.0	60.5	G1½	74	2030 x 880 x 1760	1203

<sup>(1)</sup> according to ISO 1217 Annex E    <sup>(2)</sup> REflex function: 6 to 10 bar, continuously variable    <sup>(3)</sup> according to DIN EN ISO 2151:2009    \*on request  
All models with ball valve and electrical feed cable.

Options	Part no.
Electronic control RENNERtronic Plus	05591
Level actuated drain for refrigeration dryer	05311
IE4 motor	on request

## COMPRESSED AIR FOR ALL APPLICATIONS



RENNER GmbH Kompressoren, a family run business established in 1994, develops and assembles economical and energy-efficient compressors. A broad range of compressed air accessories are also part of the product portfolio. The structure and size of the company ensure flexible decisions and short lead times, thus providing optimal focus on the requirements of the customers.

### THE RENNER MANUFACTURING AND SUPPLY PROGRAMME:

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

#### SCREW COMPRESSORS:

- from 2.2 to 355 kW
- up to 40 bar, e.g. for manufacture of PET bottles
- compact systems with air receiver, refrigeration dryer, and variable speed control
- heat exchanger integrated or as an external box
- special applications: gas compression, operation of drilling devices, rail, and special-purpose vehicles
- customized models designed to customer specifications

#### OIL-FREE COMPRESSORS:

- SCROLL compressors for oil-free compressed air from 1.5 to 30.0 kW
- water-injected screw compressors for oil-free compressed air in breathing air quality from 18.5 to 120 kW



#### PISTON COMPRESSORS:

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

#### CONTROL SYSTEMS:

- compressor control systems
- superordinate control systems
- state-of-the-art web server monitoring

 Industry 4.0

#### COMPRESSED AIR ACCESSORIES:

- air filters, air receivers, refrigeration dryers, adsorption dryers, condensate drains, and oil-water-separators

Your RENNER distributor:

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