

Screw compressors

**RS-PRO 2-30.0 – 55.0**

**RSF-PRO 2-30.0 – 55.0**

 Made in  
Germany



**Motor power: 30.0 – 55.0 kW**



RS-PRO 2-30.0 – 55.0



RSK-PRO 2-30.0 – 45.0



RSF-PRO 2-30.0 – 55.0



RSKF-PRO 2-30.0 – 2-37.0

## 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.

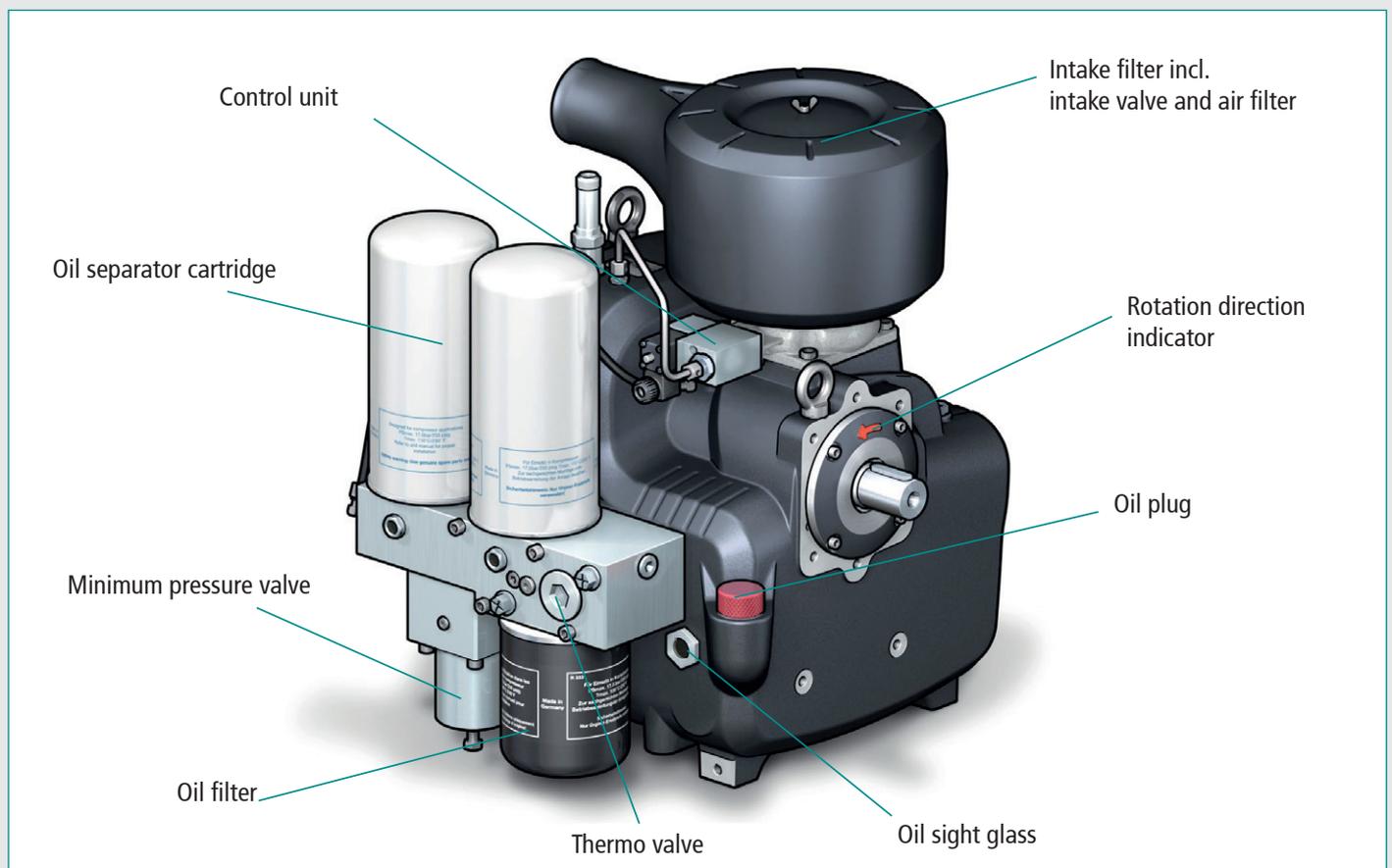
RENNER has more than 160 employees to provide you with first-class technical advice, robust compressor engineering, and reliable service in virtually more than one hundred countries. We offer fast maintenance services in Germany and all over the world through our large distributor network. You can rely 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!



## RS-PRO screw compressors – RENNER's compact, robust, high-performance range.

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. RENNER screw compressors with asymmetric profile are designed for powerful industrial operation, with no compromise.

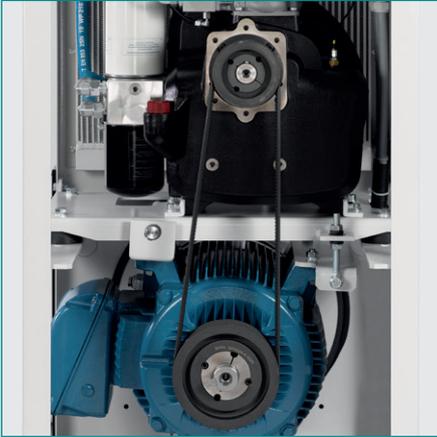
Excellent economy, long service life, and simple, economical maintenance are the most important criteria in the development of new products, and when developing the new RS-PRO series the focus was set firmly on powerful, efficient compressed air supply with low space requirement and easy access to the relevant parts for maintenance.



### Design features and advantages of the RS-PRO range:

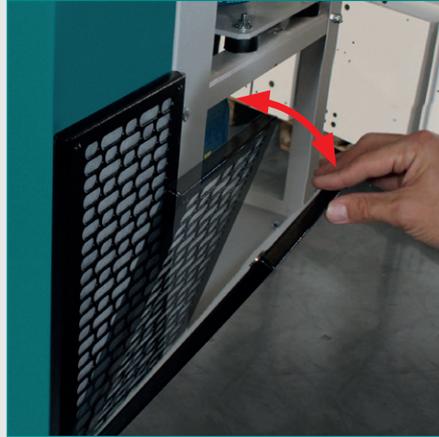
- 2-years full functional warranty
- maintenance-friendly due to easily removable covers
- the right solution for all requirements: as a freestanding system, with attached refrigeration dryer and as a complete unit on air receiver in various sizes
- intensive cooling combined with an effective after cooler guarantees operational safety and excellent air quality
- developed for industrial use – including continuous operation
- standard components by German brand manufacturers provide a high standard of quality and flexibility
- high-performance compact air end with integrated oil thermo valve
- effective rear duct silencer and use of rubberbonded metals guarantee low noise and low vibration operation
- control system RENNERlogic as a standard
- optionally: control system RENNERtronic / RENNERtronic Plus

## Belt tension



Belt tensioning is effected by means of a motor rocker. The optimum sling arrangement of the belt around the pulley ensures even better power transfer.

## Pre-filter frames



The RS-PRO range is optionally available with pre-filter frames to protect against dirt particles. The frames are attached by means of magnets and can easily be retrofitted.

## Radial fan



The RSF-PRO range is built standard with radial fan. Thanks to the efficient rear duct silencer and the new radial fans, noise levels are reduced to a minimum.



## Protected frequency converter

The frequency converter is separated from the air supply of the compressor by a metal sheet and thus protected from polluting particles.

## Heat exchanger

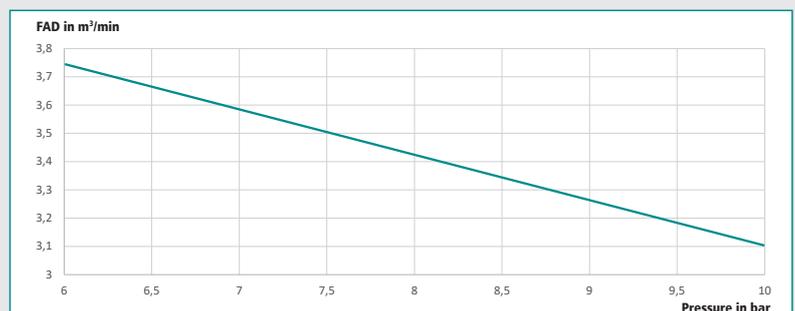
RENNER's RS-PRO range has an optional heat recovery system for industrial or hot water.



## Operating mode of RSF-PRO from 6-10 bar (REflex)

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.



## Energy savings: compressors with variable speed control. The RSF-PRO series is characterized by quality and efficiency.

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.

### Do you know how much energy your compressed air station requires and how much goes to waste?

About 60,000 compressed air stations in Germany consume 14 billion kWh of electricity annually. This corresponds to 5% 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.

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 CO<sub>2</sub> emissions at the same time.

#### Optimum use of energy: RENNER screw compressors with variable speed control

- 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

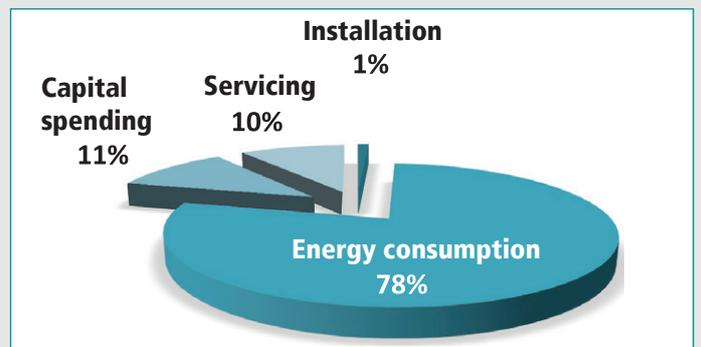
### Variable speed control

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. The compressor speed adapts to the actual need for compressed air with variable speed control. This guarantees economic operation; the frequency converter is integrated and firmly installed in the switch cabinet.



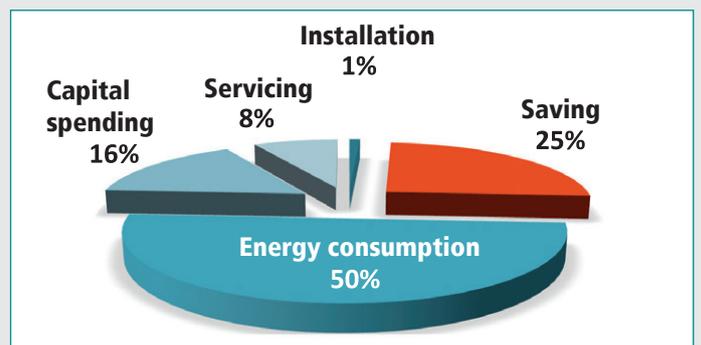
### Comparing total cost after 5 years:

#### 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 RSF compressors with variable speed control:



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



## Screw compressors

RS-PRO 2-30.0 – 55.0

RSK-PRO 2-30.0 – 45.0 with refrigeration dryer

RS-PRO 2-30.0 – 55.0 / 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							
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	kW	HP	inch	dB(A) <sup>(2)(3)</sup>	mm	kg <sup>(3)</sup>
RS-PRO 2-30.0	5.22	184	4.61	163	3.59	127	3.29	117	30.0	40.0	G1¼	74/71	1305 x 830 x 1640	746/779
RS-PRO 2-37.0	6.36	225	5.58	197	4.66	165	4.10	145	37.0	49.5	G1¼	77/74	1305 x 830 x 1640	762/795
RS-PRO 45.0	7.70	272	6.92	244	5.71	202	4.99	176	45.0	60.5	G1½	77/74	1485 x 880 x 1760	939/986
RS-PRO 55.0	9.02	319	7.94	280	6.93	245	6.09	215	55.0	74.0	G1½	79/76	1485 x 880 x 1760	1017/1064
RSK-PRO 2-30.0	5.22	184	4.61	163	3.59	127	3.29	117	30.0	40.0	G1¼	74/71	1654 x 830 x 1640	829/862
RSK-PRO 2-37.0	6.36	225	5.58	197	4.66	165	4.10	145	37.0	49.5	G1¼	77/74	1654 x 830 x 1640	845/878
RSK-PRO 45.0	*		6.92	244	5.71	202	4.99	176	45.0	60.5	G1½	77/74	1834 x 880 x 1760	1022/1069

<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    \* on request  
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 RS-PRO / 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 RS-PRO / RSK-PRO (sound reduction of about 3 dB)    45.0 + 55.0 kW	Compressor overall dimensions: length +196 mm 07595
Level actuated drain for refrigeration dryer	05311
IE4 motor	on request



## Screw compressors

RSF-PRO 2-30.0 – 55.0

RSKF-PRO 2-30.0 – 45.0 with refrigeration dryer

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

### RSF-PRO 2-30.0 – 55.0 / 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	inch	dB(A) <sup>(3)</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	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm						
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
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	60-201	1.45-4.99	51-175	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 

#### COMPRESSED AIR ACCESSORIES:

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

Your RENNER distributor:

### RENNER GmbH · Kompressoren

Emil-Weber-Strasse 32  
D-74363 Gueglingen

Phone +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)



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