

COMPRESSED AIR  
PUSHING YOU FORWARD

# SCREW COMPRESSORS

RS-PRO 2-30.0 – 55.0 D  
RSF-PRO 3-11.0 – 55.0 D  
(DIRECT DRIVE)



MOTOR POWER: 11.0 – 55.0 KW



**RENNER**  
Kompressoren



# YOUR SPECIALIST FOR COMPRESSED AIR

As a medium-sized family business with modern development and manufacturing facilities and over 200 highly qualified employees, RENNER Kompressoren has been a benchmark for quality and customer satisfaction for more than 25 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. We also support you by the fact that all process applications at RENNER have been carried out according to DIN EN ISO 9001 since 2006.

## 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 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.

With the RS-PRO D and RSF-PRO D 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 D

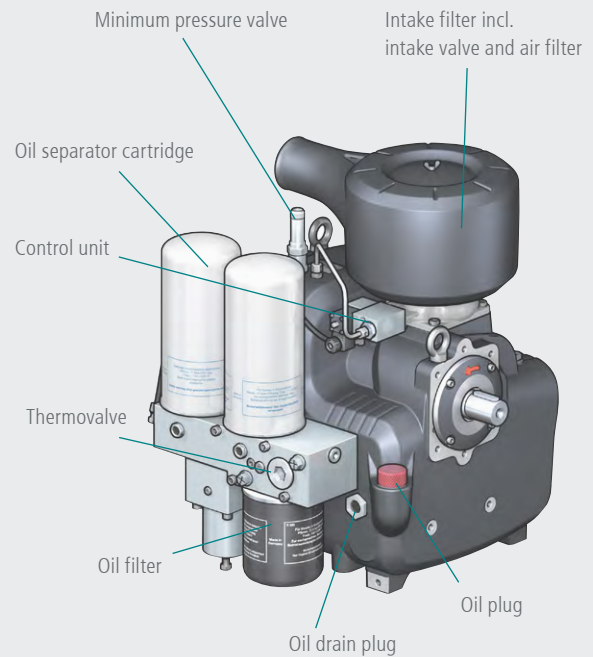


Image: PRO 9 NK

- Easily removable doors allow easy access to the individual components for maintenance.
- The right solution for all requirements: as a freestanding system, with attached refrigeration dryer and as a complete unit.
- Intensive cooling combined with an effective oil-air cooler guarantees operational safety and excellent air quality.
- Developed for industrial use – including continuous operation.
- Standard components from German brand manufacturers guarantee a high quality standard and enables short reaction times in the event of faults.
- Compact compressor air ends without additional connecting pipes and elements. A separate oil separator receiver is not required.
- Effective rear duct silencer. The motor and the compact air end as well as the compressor housing are mounted on anti-vibration metal bumpers. This results in low-noise and low-vibration installation – also in compressor rooms.
- Electronic control: standard with RENNERlogic, optional RENNERtronic Touch / 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 CO<sub>2</sub> emissions at the same time.

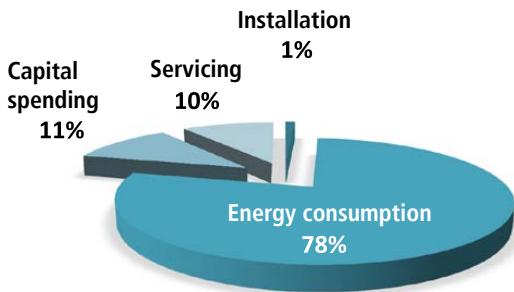




# RENNER VARIABLE SPEED CONTROL (REFLEX)

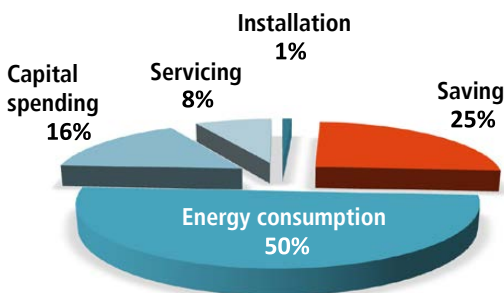
Strong fluctuations of compressed air cannot be avoided in many operations. RENNER screw compressors with variable speed control guarantee a cost efficient steady flow of compressed air. The compressor speed adapts to the actual need for compressed air with variable speed control. This guarantees economic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

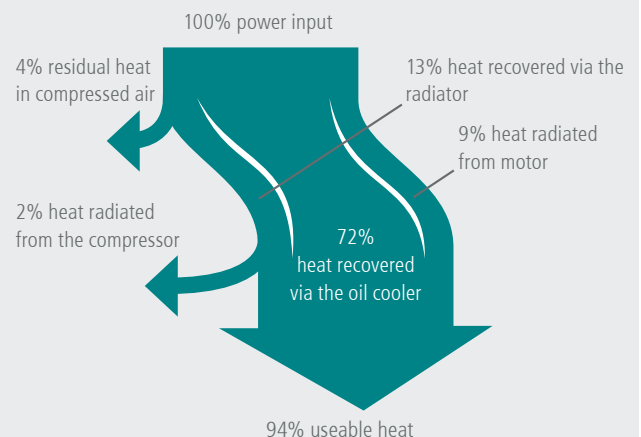
- Free air delivery and control range adjust automatically to current pressure.
- Speed and load limits of the motor are observed.
- If pressure drops due to high air consumption, the REFlex function releases reserves that increase free air delivery → Reliability of supply.
- The pressure range from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



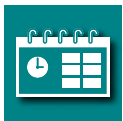
### Smartphone-like operation

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.



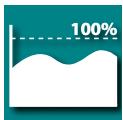
### Replacing the control

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**.

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INDUSTRY  
4.0



## ELECTRONIC CONTROL

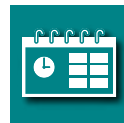
# RENNERTRONIC PLUS TOUCH

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.



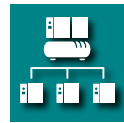
### Scheduler with eight channels

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

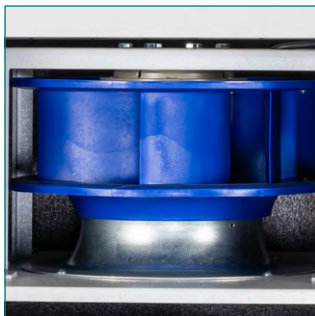
- Even workload for all compressors in terms of operating hours.
- Maintenance work can be done during operation.
- All compressors are activated with the same switch on/off pressure.
- High potential for energy savings.
- High efficiency for fluctuating air demand.
- User-friendly configuration.
- Compressors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



# RS(F)-PRO D IN DETAIL

## COMPACT DESIGN

Even compressors mounted on an air receiver and refrigeration dryer can be installed in the tightest of spaces. Due to the interconnected components, the standard ball valve and the connection to your compressed air network is simple and quick. This saves space, time and reduces costs.



## RADIAL FAN

RSF-PRO D series are coming with radial fans with good residual pressure. The radial fans used, and the rear doct silencer reduce the noise level to a minimum.

## REFLEX FUNCTION

All compressors with variable speed control from RENNER are equipped with a REFLEX function. Thus the pressure range from 6 to 15 bar can be configured variably.



## FREQUENCY CONVERTER

Standard feature of the RSF-PRO D series. The frequency Converter is installed in the control cabinet and is protected against contamination in the best possible way.

## REFRIGERATION DRYER

The powerful refrigeration dryer with a safe pressure dew point of 3°C ensures a uniformly high compressed air quality. This can be mounted directly from the factory, which means no additional costs for fasteners.





## CONTROLS

The compressors can be pre-programmed with a Base Load Change Control via the individually configurable premium control RENNERtronic Plus Touch. For simpler applications, we offer our controls RENNERlogic and RENNERtronic Touch as alternatives. This puts us one step ahead of other manufacturers!



## EASY TO MAINTAIN

Due to removable doors, all components are easily and directly accessible for maintenance from one side. Thus, maintenance can be carried out easily and quickly.

## DRIVE MOTOR

Standard equipment with IE3 motor. Optionally, electricity costs can be reduced with the more efficient IE4 motor.



## HEAT EXCHANGER

A heat exchanger for service or heating water saves energy and thus costs. This can be installed directly in the compressor or connected via an external heat exchanger.



## PRE-FILTER FRAME

For protection against contamination, standard for compressors with variable speed control. The frame can be attached very simply by means of magnets.

## DIRECT DRIVE

Direct drive connects the air end directly to the motor via a coupling. The almost loss-free power transmission guarantees reliable, high-performance compressor operation.

# SCREW COMPRESSORS

## RS-PRO 2-30.0 – 55.0 D



Model	Free air delivery <sup>(1)</sup>				Motor power		Compressed air outlet inches	Noise level dB(A) <sup>(2)</sup>	Dimensions L x W x H mm	Weight kg
	7,5 bar		10 bar		kW	HP				
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm						
RS-PRO 2-30.0 D	5.40	191	4.73	167	30.0	40.0	G1¼	69	1716 x 941 x 1565	989
RS-PRO 2-37.0 D	6.55	231	5.81	205	37.0	50.0	G1¼	69	1716 x 941 x 1565	1013
RS-PRO 45.0 D	7.85	277	6.99	247	45.0	60.0	G1½	73	1917 x 981 x 1756	1257
RS-PRO 55.0 D	9.11	322	8.17	289	55.0	74.0	G1½	75	1917 x 981 x 1756	1323

<sup>(1)</sup> according to ISO 1217 Annex C    <sup>(2)</sup> according to DIN EN ISO 2151:2009  
All models with ball valve.

Options	Part no.
Level actuated drain for refrigeration dryer	10867
Electronic control RENNERtronic Plus Touch	23836
IE4 motor IE4	on request
Water-cooling system	on request



# RSF-PRO 3-11.0 – 55.0 D RSKF-PRO 3-11.0 – 22.0 D

all with variable speed control, pre-filter frames and electronic control RENNERtronic Touch. The RSKF-PRO models are mounted with refrigeration dryer.



Model	Free air delivery m <sup>3</sup> /min (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						
RSF-PRO 3-11.0 D	1.12	40	2.39	84	2.20	78	2.02	71	–	–	–	–	11.0	15.0	G1	64	1416 x 770 x 1622	764
RSF-PRO 2-15.0 D	0.93	33	3.33	118	3.09	109	2.86	101	2.53	89	2.28	81	15.0	20.0	G1	65	1416 x 770 x 1622	764
RSF-PRO 2-18.5 D	0.95	34	4.00	141	3.71	131	3.42	121	2.98	105	2.69	95	18.5	25.0	G1	69	1416 x 770 x 1622	766
RSF-PRO 22.0 D	0.95	34	4.42	156	4.06	143	3.71	131	3.19	113	2.75	97	22.0	29.5	G1	69	1416 x 770 x 1622	794
RSF-PRO 2-30.0 D	1.81	64	5.42	191	5.19	183	4.71	166	4.02	142	–	–	30.0	40.0	G1¼	69	1716 x 941 x 1565	1026
RSF-PRO 2-37.0 D	1.73	61	6.83	241	6.29	222	5.83	206	5.11	180	4.62	163	37.0	49.5	G1¼	69	1716 x 941 x 1565	1050
RSF-PRO 45.0 D	1.75	62	8.38	296	7.69	272	6.92	244	5.87	207	5.46	193	45.0	60.5	G1½	73	1917 x 981 x 1756	1308
RSF-PRO 55.0 D	1.85	65	9.21	325	8.69	307	8.17	289	7.37	260	6.92	244	55.0	74.0	G1½	75	1917 x 981 x 1756	1374

<sup>(1)</sup> according to ISO 1217 Annex E  
All models with ball valve.

<sup>(2)</sup> REFlex function: 6 to 10 bar, continuously variable

<sup>(3)</sup> according to DIN EN ISO 2151:2009

Model	Free air delivery m <sup>3</sup> /min (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						
RSKF-PRO 3-11.0 D	1.12	40	2.39	84	2.20	78	2.02	71	–	–	–	–	11.0	15.0	G1	64	1760 x 770 x 1622	813
RSKF-PRO 2-15.0 D	0.93	33	3.33	118	3.09	109	2.86	101	2.53	89	2.28	81	15.0	20.0	G1	65	1760 x 770 x 1622	823
RSKF-PRO 2-18.5 D	0.95	34	4.00	141	3.71	131	3.42	121	2.98	105	2.69	95	18.5	25.0	G1	69	1760 x 770 x 1622	826
RSKF-PRO 22.0 D	0.95	34	4.42	156	4.06	143	3.71	131	3.19	113	2.75	97	22.0	29.5	G1	69	1766 x 770 x 1622	871

<sup>(1)</sup> according to ISO 1217 Annex E  
All models with ball valve.

<sup>(2)</sup> REFlex function: 6 to 10 bar, continuously variable

<sup>(3)</sup> according to DIN EN ISO 2151:2009

Options	Part no.
Level actuated drain for refrigeration dryer	05311
Electronic control RENNERtronic Plus Touch	23836
IE4 motor	on request
Water-cooling system	on request

# COMPRESSED AIR PUSHING YOU FORWARD

RENNER and its specialized trade distributors are at your side to assist you as competent sales and service partners in approximately 100 countries. This guarantees you first-class advice and a comprehensive, fast maintenance service worldwide that solves problems in the shortest possible time. You will receive a compact, robust, reliable and energy-efficient product specially tailored to your needs.



## 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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