

**Screw compressors**

**RS-PRO 2-30.0 – 55.0 D**  
**RSF-PRO 2-30.0 – 55.0 D**  
with direct drive

 Made in  
Germany



**Motor power: 30.0 – 55.0 kW**



## 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.

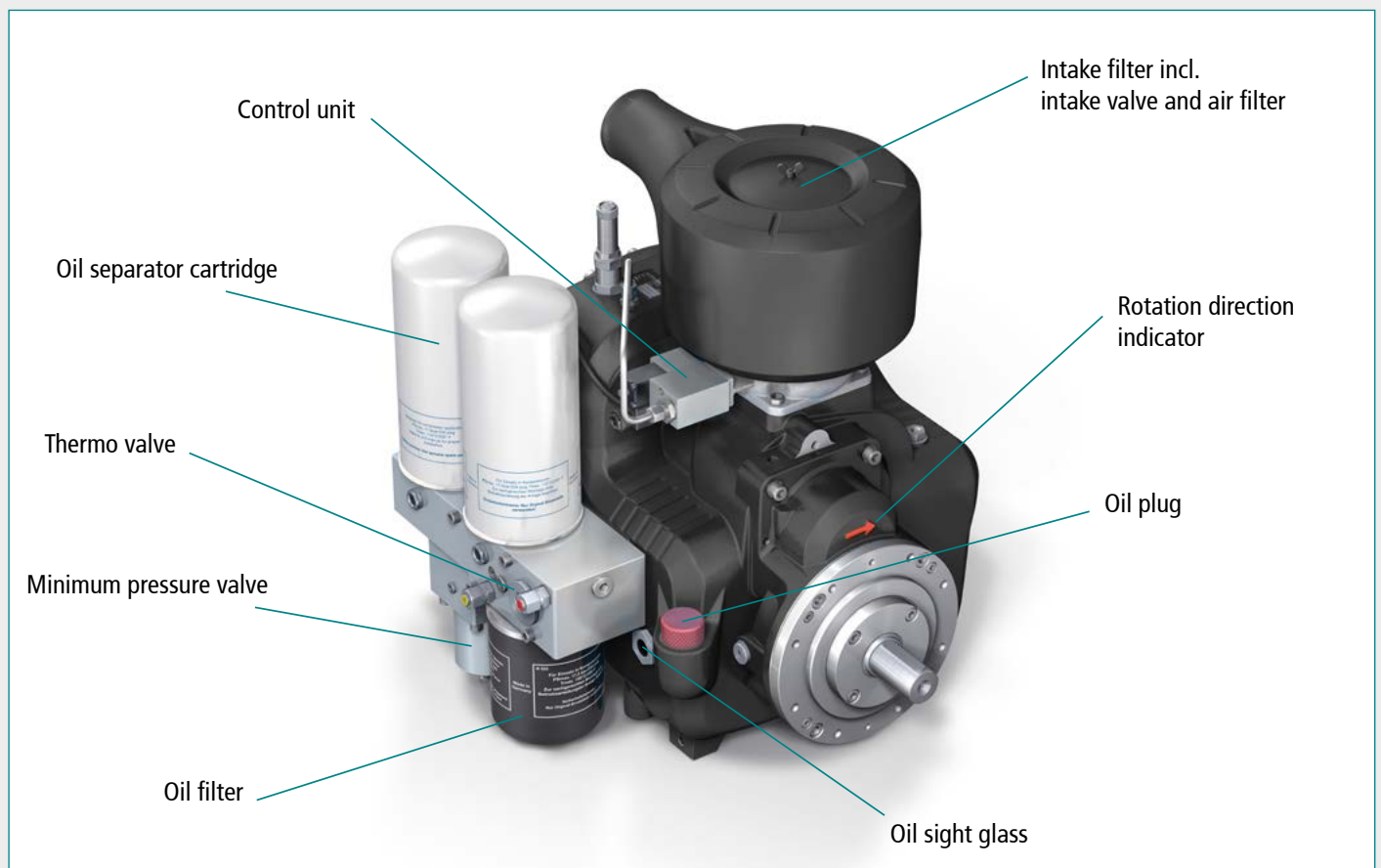
RENNER has more than 160 employees to provide you with first-class technical support, robust compressor engineering, and reliable service in virtually more than one hundred countries. We offer fast maintenance services in Germany and all over the world through our large distributor network. You can rely on the high quality standards of our oil-injected screw compressors as well as in the fields of oil-free compressed air or piston compressors. We are proud to assist you as a competent sales and service partner worldwide!



## RS(F)-PRO D (with direct drive) – RENNER's compact, robust, high-performance range.

Oil-injected, direct driven screw compressors in the appropriate power range 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 30.0 – 355 kW and an end pressure of up to 15 bar. RENNER screw compressors with asymmetric profile are designed for uncompromising industrial applications.

High efficiency, a long service life and cost-effective maintenance are the most important criteria in the development of new products. The main objectives for the new RS(F)-PRO D range was to provide a top-performing air compressor at a low space requirement with easy access to maintenance parts.

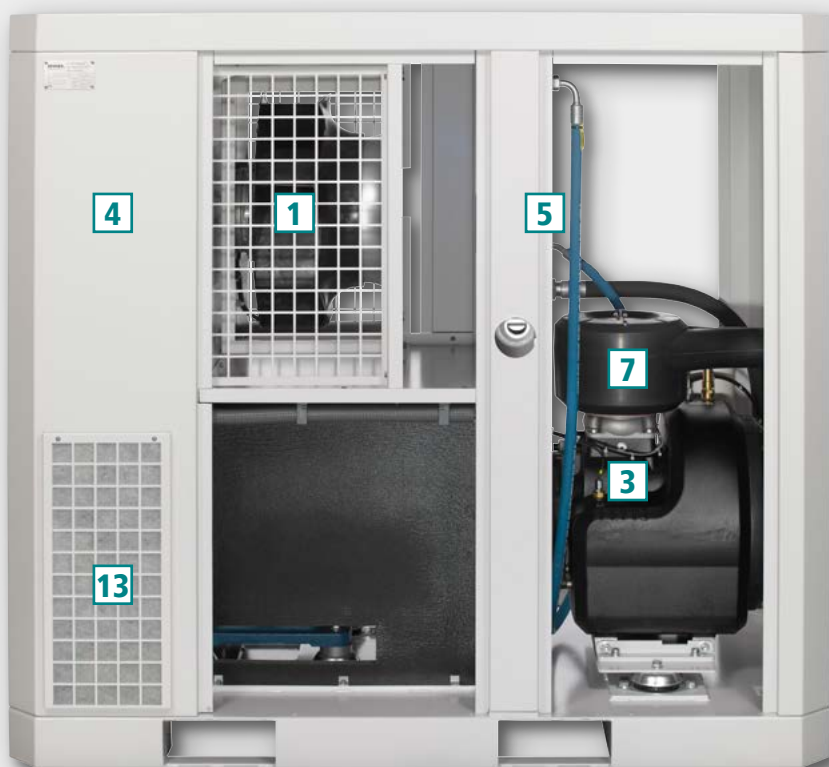
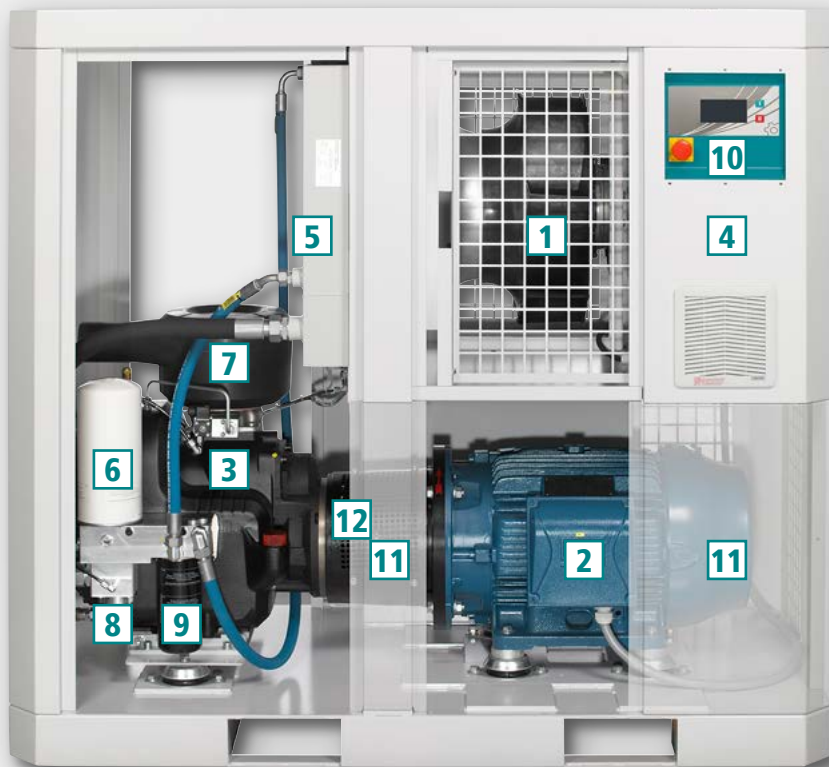


### Design features and advantages of the RS(F)-PRO D series:

- 2-years full warranty.
- Easily removable doors allow easy access to the individual components for maintenance.
- Intensive cooling combined with an effective aftercooler guarantees operational safety and excellent air quality.
- Developed for industrial use – including continuous operation.
- The use of standard components from German brand manufacturers guarantees 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.
- Control system RENNERtronic as a standard.
- Optionally: control system RENNERtronic Plus.
- Radial fan as a standard.
- Easy coupling replacement – no moving of other components such as motor or compressor.

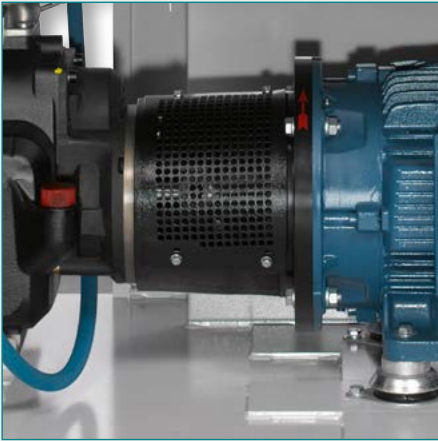
## RENNER – the expert in screw compressors.

Easily removable service panels ensure excellent accessibility to all maintenance-related components.



- 1** Radial fan
- 2** Motor
- 3** Air end
- 4** Switch cabinet
- 5** Cooler
- 6** Oil separator cartridges
- 7** Intake filter incl. air filter
- 8** Minimum pressure valve
- 9** Oil filter
- 10** Control system
- 11** Removable struts
- 12** Clutch housing + clutch
- 13** Pre-filter frames (optionally)

### Direct drive



The direct drive connects the air end via coupling to the motor. This almost loss-free transmission guarantees reliable and efficient operation of the compressor.

### Pre-filter frame

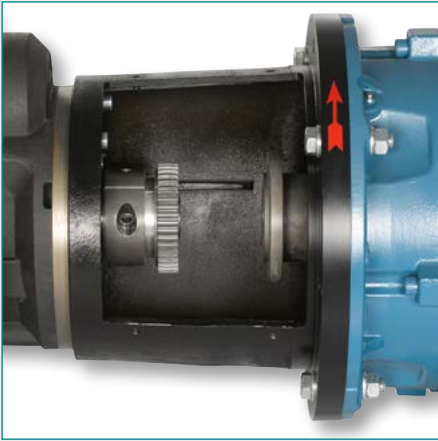


The RS-PRO D range is optionally available with a pre-filter frame to protect against dirt particles. The frame is attached by means of magnets and can easily be retrofitted.

### Radial fan



RS(F)-PRO D range compressors are cooled by radial fans. These ensure excellent residual thrust and a pleasant noise level.



### Easy coupling replacement

The coupling can be replaced without moving the motor or air end by simply shifting the toothed hub on the compressor shaft.

### Heat exchanger

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



### Easy to maintain

In order to ensure better access to maintenance-relevant parts or to replace motor or air end, various frame elements can be removed.



# RENNER

Kompressoren



**NEW!**

RENNERtronic Plus Touch &  
RENNERtronic Touch

## TOUCH ME!

New RENNER compressor controls

- Smartphone-like operation via 4.3" or 7" touchscreen
- Timer as standard
- Easy update via USB stick
- Robust against dirt and dust
- Excellent price-performance ratio

Industry 4.0

[www.renner-kompressoren.com](http://www.renner-kompressoren.com)

# 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.



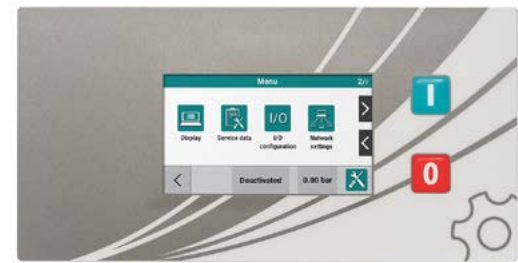
**Timer with six channels:**  
This can be used to switch the four pressure bands, four potential-free relay contacts or the compressor.



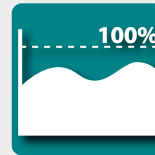
**USB port:**  
Updates can be easily uploaded using a USB stick.



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

## ! RENNERtronic Plus Touch with additional functions

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



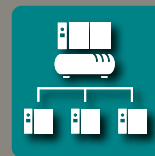
**7" touchscreen:**  
Overview a multitude of information simultaneously and clearly.



**Timer with eight channels:**  
In addition to the above-mentioned functions, priorities for Base Load Change Over can also be assigned via the timer.



**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.



## Energy savings: compressors with variable speed control. The RSF-PRO D 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

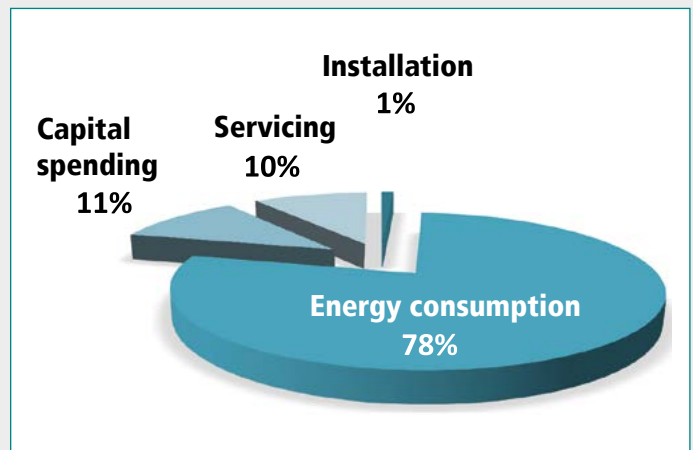
### Variable speed control

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.



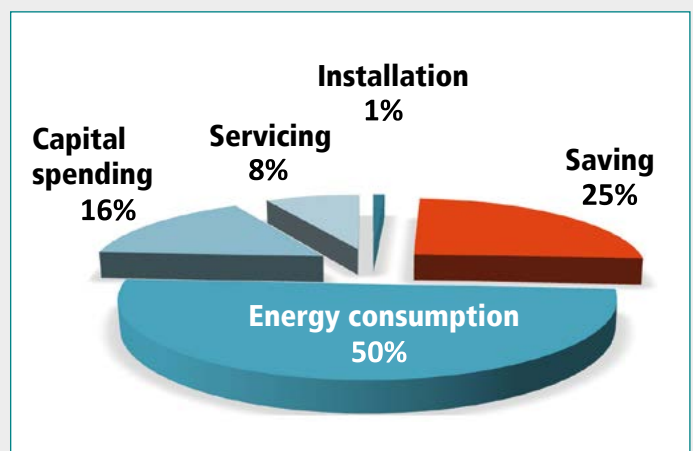
### Comparing total cost after 5 years:

#### 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.



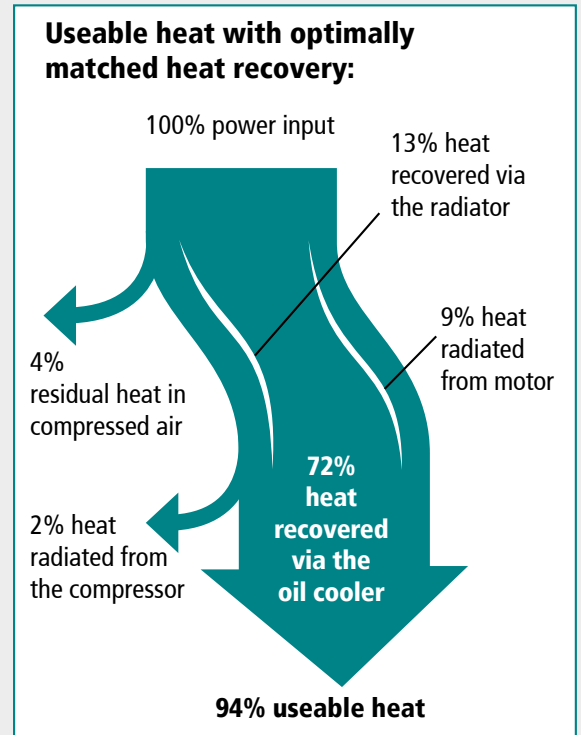
## Optional: internal and external heat recovery.



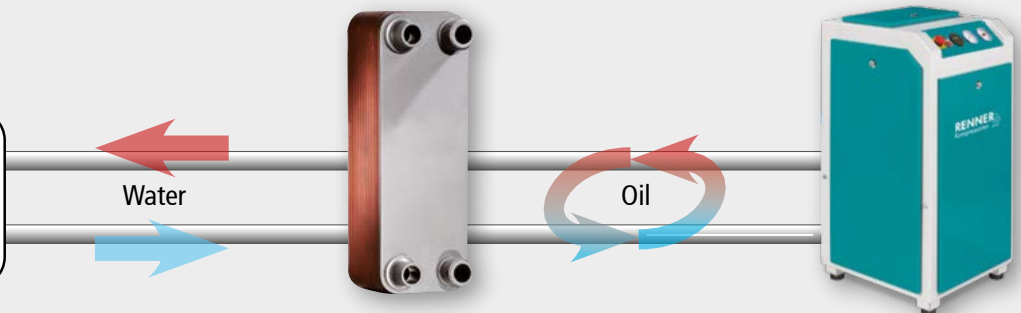
When using screw compressors, a large amount of heat is also generated in addition to the actual main product – compressed air. With RENNER heat recovery, you can regain up to 94% of the energy you have already used as heat in the form of hot air, industrial water or hot water. This makes perfect sense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

Heat recovery via plate heat exchanger: the heat exchangers feature a very simple installation, the integration into the existing water cycle is done by an installer. No external energy is required for the operation.

- for RENNER screw compressors 7.5 – 250 kW
- standard: inlet temp. 15°C, outlet temp. 65°C (industrial water)  
or  
inlet temp. 35°C, outlet temp. 65°C (reflux heating)
- other temperature ranges available on request
- safety heat exchanger (drinking water)
- retrofitting available on request



- hot water
- central heating system
- cooling systems



## Integrated heat exchanger



## External heat exchanger





## Screw compressors

RS-PRO 2-30.0 – 55.0 D direct drive  
with electronic control RENNERtronic Touch

### RS-PRO 2-30.0 – 55.0 D

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		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	G1¼	69	1716 x 941 x 1565	989
RS-PRO 2-37.0 D	6.55	231	5.81	205	37.0	50	G1¼	69	1716 x 941 x 1565	1013
RS-PRO 45.0 D	7.85	277	6.99	247	45.0	60	G1½	73	1917 x 981 x 1756	1257
RS-PRO 55.0 D	9.11	322	8.17	289	55.0	74	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 come with ball valve.

Options	Part no.
Rotation direction control via phase rotation control	10867
Electronic control RENNERtronic Plus Touch	23836
IE4 motor	on request
Heat recovery	on request

Technical changes reserved.



## Screw compressors

RSF-PRO 2-30.0 – 55.0 D direct drive  
with electronic control RENNERtronic Touch  
with pre-filter frame

### RSF-PRO 2-30.0 – 55.0 D

Model	Free air delivery (REflex) <sup>(1)(2)</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		max. at 13 bar		max. at 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-PRO 2-30.0 D	1.81	64	5.42	191	5.19	183	4.71	166	4.02	142	–	–	30	40	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	50	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	60	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	74	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: pressure range continuously variable

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

Options	Part no.
Electronic control RENNERtronic Plus Touch	23836
Water-cooling system	on request
IE4 motor	on request
Heat recovery	on request

Technical changes reserved.

## 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:

### RENNER GmbH · Kompressoren

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