RENNER Kompressoren

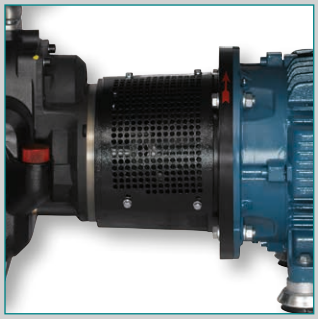
Screw compressors

RS-PRO 2-30.0 – 55.0 D

with direct drive

Made in Germany

Motor size: 30.0 to 55.0 kW



RENNER GmbH Kompressoren – Success Rooted in Tradition.

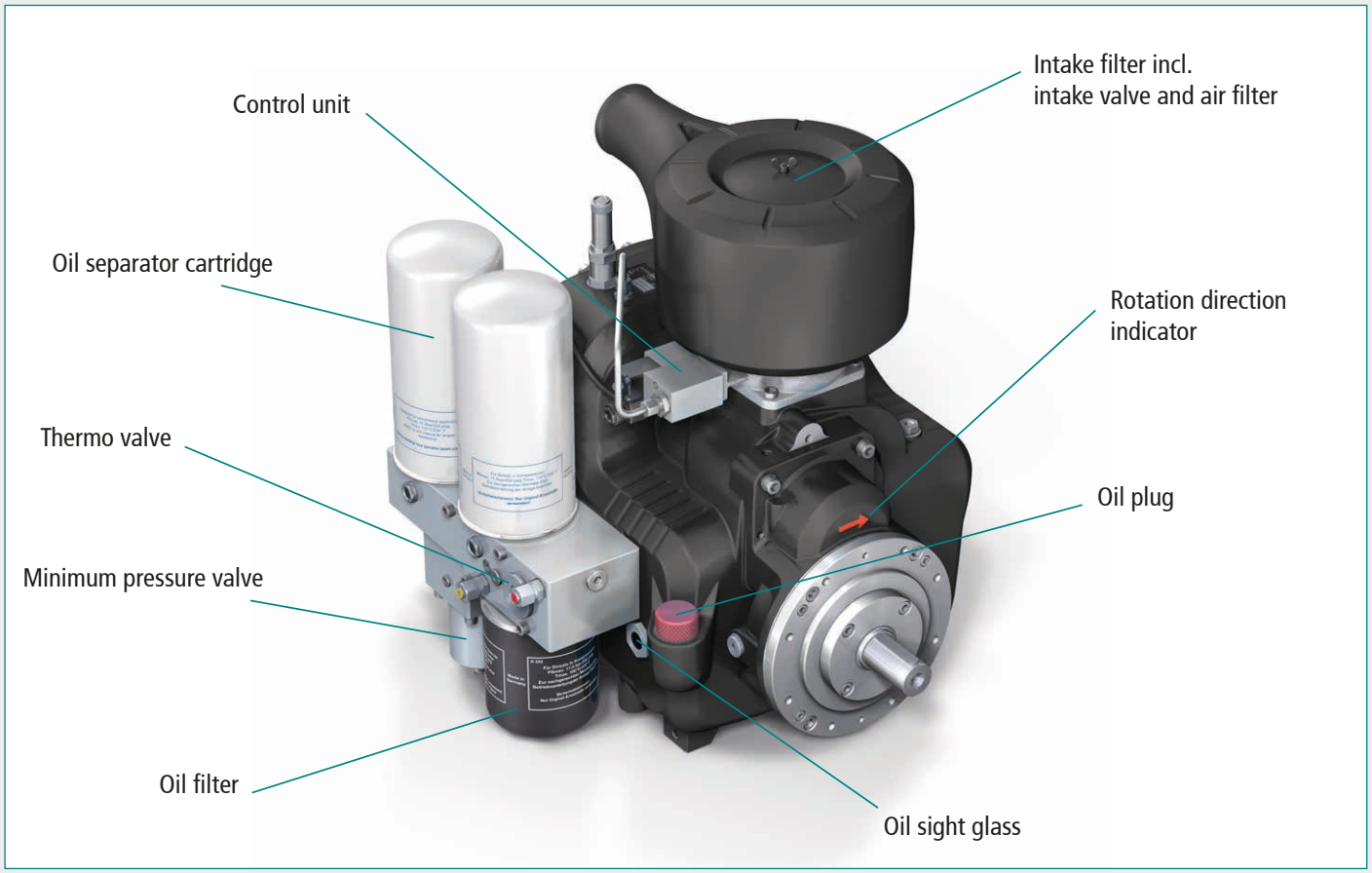
RENNER GmbH Kompressoren have been known for reliable compressed air for more than 20 years. As a family owned business with fast decision-making processes, we set the benchmarks in developing, manufacturing, and selling efficient screw compressors.

RENNER has more than one hundred 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 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 – 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-PRO D range was to provide a top-performing air compressor at a low space requirement with easy access to maintenance parts.



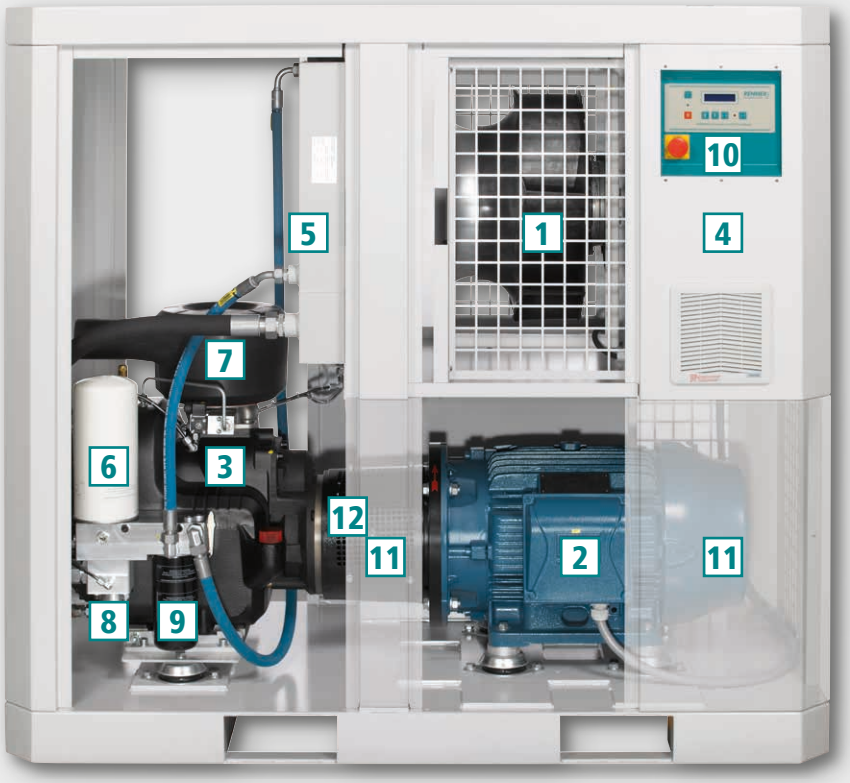
Design features and advantages of the RS-PRO D series:

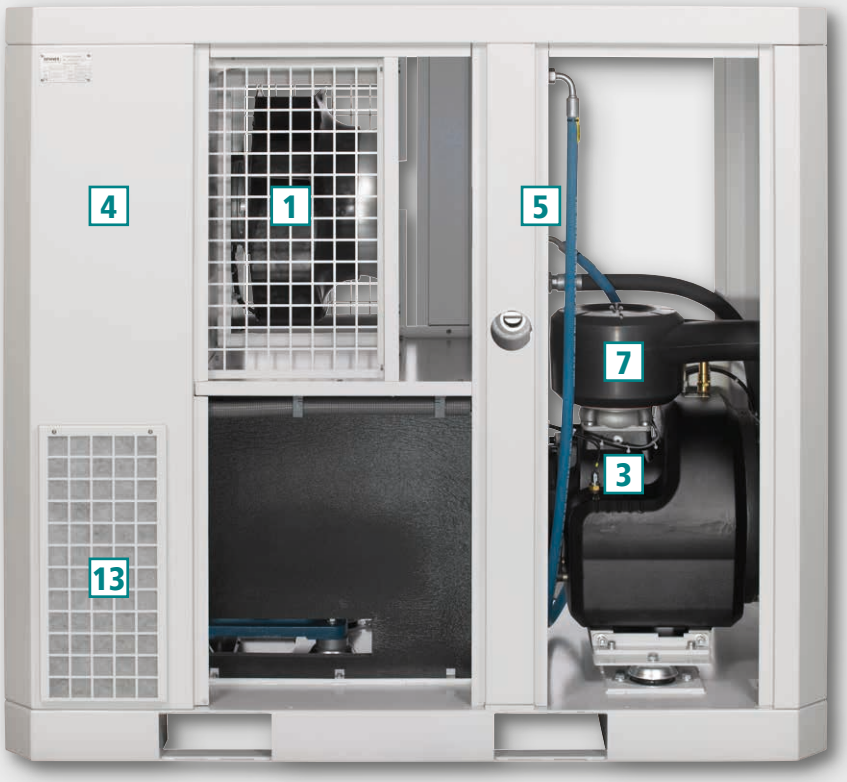
- 2-years full functional warranty
- maintenance-friendly due to easily removable covers and struts
- intensive cooling combined with an effective aftercooler guarantees operational safety and excellent air quality
- developed for industrial use – including continuous operation
- standard components 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 rubber-bonded metals guarantee low noise and low vibration operation
- 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 Kompressoren

RENNER – The expert in screw compressors.

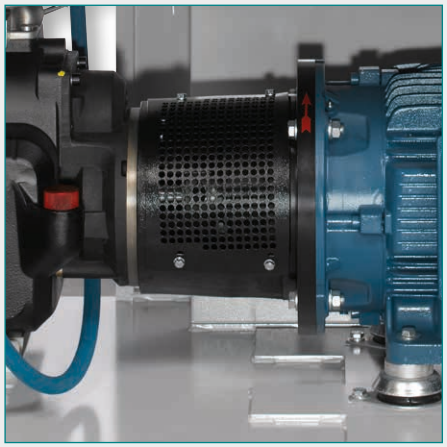
Easily removable service panels ensure excellent accessibility to all maintenance-related components.





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



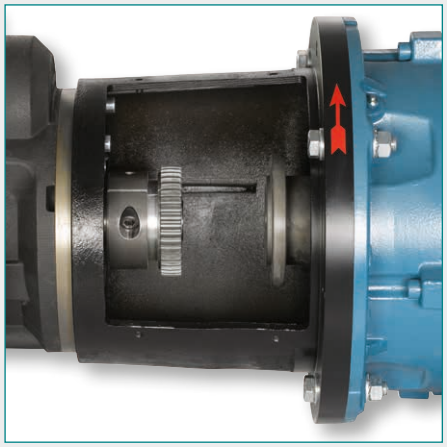
The direct drive connects the air end via coupling to the motor.
This almost loss-free transmission guarantees reliable and efficient operation of the compressor.

Pre-filter frame

The RS-PRO D series 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-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-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.

Screw compressors

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

RS-PRO 2-30.0 – 55.0 D										
Model	**Free air delivery**				**Motor power**		**Compressed air outlet**	**Noise level**	**Dimensions L x W x H**	**Weight**
	7.5 bar		**10 bar**							
	m³/min	**cfm**	**m³/min**	**cfm**	**kW**	**HP**	**inch**	**dB(A)[1]**	**mm**	**kg**
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

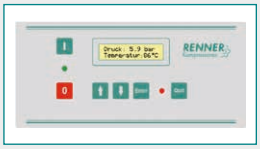
[1] according to DIN EN ISO 2151:2009
All models come with ball valve

Options	**Part no.**
Rotation direction control via phase rotation control	10867
Electronic control RENNERtronic Plus	05591
IE4 motors	on request
Heat recovery	on request

Technical changes reserved.

Standard control system RENNERtronic

The user-friendly basic control



Performance features

Pressure control within two adjustable pressure bands: Customers can determine two pressure bands within limits set by the factory. Based on these pressure bands the compressor is controlled.

Capture of operating and load hours: To identify uneconomical operation where load hours are highly variable.

Monitoring of adjustable maintenance intervals: For different compressor components, such as air or oil filters, maintenance intervals can be programmed. A message appears when maintenance is due.

Fault memory: The last ten messages stating the current operating hours are displayed on the control for diagnostic purposes.

Different code levels: The menu system is protected from unauthorised changes by various code numbers (e.g. factory code, service code, customer code).

Base load change over function: The control has a base load change over function that can be activated via the menu (additional module required).

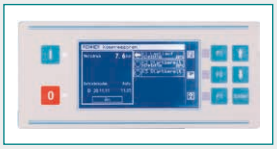
Control of frequency converters: A PI control is integrated for controlling compressors with variable speed control. This control determines the rotating speed setpoint depending on the set pressure limit and transmits this to the converter as an analog signal (additional module).

Modbus RTU: serves, for instance, for the connection to a higherlevel control system or a building control system (Industry 4.0 Ready).

Advantages
- saves energy
- safe operation of the compressor
- controls and monitors the system
- easy to use
- greater reliability of operation
- can be exhanced according to specific customer requirements
- optional compressor monitoring Industry 4.0

Optional control system RENNERtronic Plus

The compressor control with additional functions



Performance features

The RENNERtronic Plus has all the functions of the standard RENNERtronic. And it can do even more!

Real-time clock: All functions can be called up on the large display with real-time clock. The internal software has a timer with 7 channels.

Base load change over function: This software comes with a base load change over function which will be connected via RS485 interface (modbus) to a maximum of 4 additional compressors.

Hardware: The hardware also has additional features: RENNERtronic Plus has 11 digital inputs (the RENNERtronic has 5), 8 digital outputs (instead of 6), 1 analog input for a temperature sensor and 3 for pressure transducers and current transformers. Both analog outputs can be used without an additional module. Easier operation due to a larger display.

Monitoring of system pressure: System pressure is monitored via a pressure transducer connected to the air end. The compressor only starts up after full discharge; shut off delay time can be controlled by system pressure. In addition, the controller checks whether the mains pressure is building up, for example to identify a belt break.

Options
- profibus connection

RENNER Kompressoren

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

oil-free Made in Germany · SCROLLline Industry · SCROLLline SuperSilent

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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Reg.-Nr.: Q1 0205013

RS-PRO 2-30,0-55,0 D - EN - 08/2017