

**RENNER screw compressors**

# RSK with refrigeration dryer



**Motor power: 3.0 to 45.0 kW**



## RENNER screw compressors with refrigeration dryer

### RENNER RSK Compressors

The basis of the RSK and RSDK model series shown here is the RENNER RS standard compressor designed for the standard industrial application. Additionally these models are equipped with a compressed air refrigeration dryer, which is attached to the compressor and according to performance is adjusted to the respective air flow required.

The entire compressor system is internally fully assembled and wired, i.e. instantly ready for operation and connection.

In comparison to the separate setup of compressor and dryer, there are significant advantages in the installation cost as well as the footprint space requirement.

### The advantages

- A unique 2 year full warranty
- Compact and clear layout
- Low-noise and low-vibration
- Maintenance friendly by optimum accessibility of the components
- Top quality standard components with full manufacturers guarantee, quality and fast spare parts delivery
- 100% dry compressed air and high air quality
- No malfunctions and associated subsequent costs by condensate build up in the lines
- Compact and space saving
- No additional assembly and installation costs
- The refrigeration dryer has the necessary capacity to match the corresponding compressor output.

### RENNER refrigeration dryer

The compressed air is directed into the refrigeration dryer for processing, and pre-cooled in the air/air-heat exchanger. This pre-cooling takes place in a counter clockwise flow to the escaping, cooled compressed air. This is accomplished without any additional requirement for energy.

Further cooling to the pressure dew point occurs in the cooling chamber / air-heat exchanger that is cooled by a cooling agent circuit.

During the entire cooling process, the moisture escapes as condensate and is automatically dispensed. The processed compressed air is reheated by the discharged compressed air in the air/air-heat exchanger.

The RENNER refrigeration dryers work environmentally and compatible with completely ozone harmless cooling agents R134a and R407c.



### Electronic control of the refrigerant dryer

The electronic DDS3 controller is a micro-controller specially developed for compressed air dryers with the following functions:

- Pressure dew point indicator
- Control condensate solenoid valve
- Automatic fan control.



### Optional

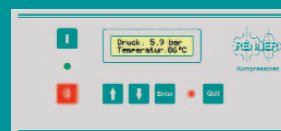
- Level controlled electronic condensate trap
- RSK-TOP / RSDK-TOP 3.0 and 4.0: Star delta starter
- Direction of rotation control
- Galvanised 250- / 500 litre pressure air receiver with hand-hole
- Models: RSDK-TOP, RSDK, RSDKF on powder coated 270 and 500 litre ECN-air receivers with 2" inspection hole
- Electronic control RENNERtronic
- Electronic control RENNERtronic Plus
- Attached pre-filter-grids

All air receivers acc. to 2009/105EC / AD2000 directives.

### RENNERtronic controls

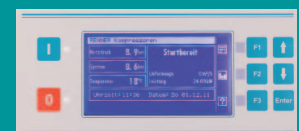
#### Advantages of the RENNERtronic

- Controls and monitors the units
- Displays
  - the mains pressure within easily changeable pressure limits
  - the compressor temperature
  - faults/ fault message storage
  - maintenance intervals
- Capture of operating and load hours
- The software includes a Base Load Change Over function
- Control is secured by means of code levels
- Update for special functions possible at any time
- Diagnostic functions of inputs and outputs



#### Advantages of the RENNERtronic Plus

- Easier operation due to a larger display
- Real-time clock
- Integrated timer with 7 channels
- Monitoring of the mains pressure
- Base-load changeover (BLCO)
  - facilitated connection to other compressors
  - additional functions and options possible
- Displays
  - the flow (FAD)
  - the power consumption (optional)
  - additional symbols
- Numerous statistical evaluations
- Profibus and Modbus connection possible





## RENNER screw compressors

RSK-TOP 3,0 – RSK-TOP 15,0

with small footprint, rear duct silencer and attached refrigeration dryer

### RSK-TOP 3,0 – 15,0

Model	Free Air Delivery								Motor power		Compressed air outlet inch	Noise level dB(A)*	Dimensions D x W x H in mm	Weight kg
	7.5 bar		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						
RSK-TOP 3.0	0.46	16	0.37	13	0.28	10	0.24	8	3.0	4.0	1/2	60	980 x 504 x 951	170
RSK-TOP 4.0	0.63	23	0.51	19	0.39	14	0.30	11	4.0	5.5	1/2	60	980 x 504 x 951	170
RSK-TOP 5.5	0.86	31	0.72	31	0.57	20	0.48	17	5.5	7.5	1/2	60	980 x 504 x 951	180
RSK-TOP 7.5	1.18	41	1.06	41	0.86	31	0.76	27	7.5	10.0	1/2	60	980 x 504 x 951	185
RSK-TOP 11.0	1.76	62	1.50	53	1.16	41	0.95	33	11.0	15.0	3/4	66	1272 x 574 x 1255	320
RSK-TOP 15.0	2.24	79	1.96	69	1.51	54	1.24	44	15.0	20.0	3/4	66	1272 x 574 x 1255	339

\*according to CAGI PNEUROP PN 8 NTC 2 · All models with ball valve and electrical feed cable.



## RENNER screw compressors

RSK 3,0 – RSK 45,0

with attached refrigeration dryer

### RSK 3.0 – 45.0

Model	Free Air Delivery								Motor power		Compressed air outlet inch	Noise level dB(A)*	Dimensions D x W x H in mm	Weight kg
	7.5 bar		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						
RSK 3.0	0.46	16	0.37	13	0.28	10	0.24	8	3.0	4.0	1/2	59	1024 x 579 x 907	178
RSK 4.0	0.63	23	0.51	19	0.39	14	0.30	11	4.0	5.5	1/2	60	1024 x 579 x 907	193
RSK 5.5	0.86	31	0.72	26	0.57	20	0.48	17	5.5	7.5	1/2	61	1024 x 579 x 907	213
RSK 7.5	1.18	41	1.06	37	0.86	31	0.76	27	7.5	10.0	1/2	62	1024 x 579 x 907	235
RSK 1-11.0	–	–	1.45	51	1.10	39	0.90	32	11.0	15.0	1/2	63	1124 x 579 x 907	259
RSK 11.0	1.76	62	1.50	53	1.16	41	0.95	33	11.0	15.0	1/2	69	1308 x 671 x 1123	375
RSK 15.0	2.24	79	1.96	69	1.51	54	1.24	44	15.0	20.0	1/2	69	1308 x 671 x 1123	392
RSK 18.5	2.91	103	2.62	93	2.20	78	1.89	67	18.5	25.0	1 1/4	71	1636 x 799 x 1296	684
RSK 22.0	3.46	122	3.10	110	2.66	94	2.31	82	22.0	30.0	1 1/4	71	1636 x 799 x 1296	615
RSK 1-30.0	4.38	155	4.01	142	3.52	124	3.02	107	30.0	40.0	1 1/4	72	1636 x 799 x 1296	660
RSK 2-30.0	5.05	178	4.28	151	3.76	133	3.40	120	30.0	40.0	1 1/4	74	1746 x 939 x 1580	889
RSK 37.0	6.15	217	5.24	185	4.56	161	4.15	147	37.0	50.0	1 1/4	75	1746 x 939 x 1580	915
RSK 45.0	7.25	256	6.51	230	5.55	196	5.03	178	45.0	60.0	1 1/4	75	1746 x 939 x 1580	1046

\*according to CAGI PNEUROP PN 8 NTC 2 · All models with ball valve and electrical feed cable.



## RENNER screw compressors

RSDK-TOP 3,0 – RSDK-TOP 7,5

RSDK 3,0 – RSDK 15,0

on air receiver and attached refrigeration dryer, TOP models with rear duct silencer

### RSDK-TOP 3,0 – 15,0

Model	Free Air Delivery								Motor power		Compressed air outlet inch	Noise level dB(A)*	Air receiver litre	Dimensions L x l x H in mm	Weight kg
	7,5 bar		10 bar		13 bar		15 bar		kW	CV					
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm							
RSDK-TOP 3,0	0.46	16	0.37	13	0.28	10	0.24	8	3.0	4.0	1/2	60	250	1410 x 570 x 1511	255
RSDK-TOP 4,0	0.63	23	0.51	19	0.39	14	0.30	11	4.0	5.5	1/2	60	250	1410 x 570 x 1511	255
RSDK-TOP 5,5	0.86	31	0.72	26	0.57	20	0.48	17	5.5	7.5	1/2	60	250	1410 x 570 x 1511	265
RSDK-TOP 7,5	1.18	41	1.06	37	0.86	31	0.76	27	7.5	10.0	1/2	60	250	1410 x 570 x 1511	270
RSDK 3,0	0.46	16	0.37	13	0.28	10	0.24	8	3.0	4.0	1/2	60	250	1413 x 567 x 1435	260
RSDK 4,0	0.63	23	0.51	19	0.39	14	0.30	11	4.0	5.5	1/2	60	250	1413 x 567 x 1435	280
RSDK 5,5	0.86	31	0.72	26	0.57	20	0.48	17	5.5	7.5	1/2	60	250	1413 x 567 x 1435	299
RSDK 7,5	1.18	41	1.06	37	0.86	31	0.76	27	7.5	10.0	1/2	60	250	1413 x 567 x 1435	314
RSDK 1-11,0	–	–	1.50	53	1.06	37	0.93	33	11.0	12.0	3/4	69	250	1413 x 567 x 1435	337
RSDK 11,0	1.76	62	1.50	53	1.16	41	0.93	33	11.0	12.0	3/4	69	250	1410 x 671 x 1653	420
RSDK 15,0	2.24	79	1.96	69	1.51	54	1.24	44	15.0	20.0	3/4	69	250	1410 x 671 x 1653	454

\* according to CAGI PNEUROP PN 8 NTC 2 · All models with ball valve and electrical feed cable.



## RENNER screw compressors

RSDKF 3,0 – RSDKF 15,0

on air receiver, attached refrigeration dryer and frequency control

### RSDKF-TOP 3,0 – 15,0

Model	Free Air Delivery								Motor power		Compressed air outlet inch	Noise level dB(A)*	Air receiver litre	Dimensions L x l x H in mm	Weight kg
	7,5 bar		10 bar		13 bar		15 bar		kW	CV					
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm							
RSDKF 4,0	0.17-0.56	6-20	0.14-0.46	5-16	0.11-0.35	4-12	0.09-0.30	3-11	4.0	5.0	1/2	64	250	1410 x 579 x 1442	283
RSDKF 5,5	0.23-0.77	8-27	0.20-0.65	7-23	0.16-0.53	6-19	0.14-0.45	5-16	5.5	7.5	1/2	64	250	1410 x 579 x 1442	303
RSDKF 7,5	0.33-1.10	12-39	0.29-0.95	10-34	0.22-0.74	8-26	0.19-0.63	7-22	7.5	11.0	1/2	64	250	1410 x 579 x 1442	325
RSDKF 11,0	0.53-1.76	19-62	0.45-1.50	17-53	0.35-1.16	12-41	0.28-0.93	10-34	11.0	15.0	3/4	69	250	1410 x 671 x 1653	453
RSDKF 15,0	0.67-2.24	24-79	0.59-1.96	21-69	0.45-1.51	16-53	0.37-1.24	13-44	15.0	20.0	3/4	69	250	1410 x 671 x 1653	470

\* according to CAGI PNEUROP PN 8 NTC 2 · All models with ball valve and electrical feed cable.





## RENNER screw compressors

RSDK-TOP-ECN 3,0 – RSDK-TOP-ECN 7,5

RSDK-ECN 3,0 – RSDK-ECN 15,0

on air receiver, attached refrigeration dryer and frequency control.

Air receivers are according to 2009/105EC/ AD2000 directives.

### RSDK-TOP-ECN 3,0 – 7,5 / RSDK-ECN 3,0 – 15,0

Model	Free Air Delivery				Motor power		Compressed air outlet inch	Noise level dB(A)*	Air receiver litre	Dimensions L x l x H in mm	Weight kg
	7.5 bar		10 bar		kW	CV					
	m <sup>3</sup> /min	cfm	m <sup>3</sup> /min	cfm							
RSDK-TOP-ECN 3.0	0.46	16	0.37	13	3.0	4.0	1/2	60	270	1480 x 570 x 1561	255
RSDK-TOP-ECN 4.0	0.63	23	0.51	19	4.0	5.5	1/2	60	270	1480 x 570 x 1561	255
RSDK-TOP-ECN 5.5	0.86	31	0.72	31	5.5	7.5	1/2	60	270	1410 x 570 x 1511	265
RSDK-TOP-ECN 7.5	1.18	41	1.06	41	7.5	10.0	1/2	60	270	1480 x 570 x 1561	270
RSDK-ECN 3.0	0.46	16	0.37	13	3.0	4.0	1/2	60	270	1480 x 579 x 1492	263
RSDK-ECN 4.0	0.63	23	0.51	19	4.0	5.5	1/2	60	270	1480 x 579 x 1492	271
RSDK-ECN 5.5	0.86	31	0.72	31	5.5	7.5	1/2	60	270	1480 x 579 x 1492	291
RSDK-ECN 7.5	1.18	41	1.06	41	7.5	10.0	1/2	60	270	1480 x 579 x 1492	313
RSDK-ECN 1-11.0	–	–	1.50	53	11.0	12.0	3/4	69	270	1480 x 579 x 1492	344
RSDK-ECN 11.0	1.76	62	1.50	53	11.0	12.0	3/4	69	270	1480 x 671 x 1703	420
RSDK-ECN 15.0	2.24	79	1.96	69	15.0	20.0	3/4	69	270	1480 x 671 x 1703	454

\*according to CAGI PNEUROP PN 8 NTC 2 · All models with ball valve and electrical feed cable.

Options:	Article no.
Star-delta-starter: RSDK-TOP / RSDK 3,0 et 4,0	10866
Rotation control	10867
Electronic control RENNERtronic	10869
Electronic control RENNERtronic Plus for TOP models, for other models starting with 18,5 kW	00829
Level controlled electronic condensate drain for refrigeration dryer	05311
For RSDK-ECN / RSDK-TOP-ECN: Powder coated 500 litre air receiver with 2" hole (11 bar)	01714
For RSDK / RSDK-TOP: Powder coated 500 litre air receiver with hand-hole	10871
For RSDK / RSDK-TOP: Galvanized 250 litre air receiver with hand-hole	10868
For RSDK / RSDK-TOP: Galvanized 500 litre air receiver with hand-hole	10870

## RENNER – THE SPECIALIST IN COMPRESSORS




Set up in 1994, this family run company employs a highly motivated and successful team specialising in the development and production of economic compressor systems. The structure and size of the company guarantees flexible decision-making and quick realisation, thereby ensuring optimal alignment of new developments to the needs of the market.

### THE RENNER MANUFACTURING AND SUPPLY PROGRAMME:

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

#### SCREW COMPRESSORS:

- From 3.0 to 355 kW, also for oil-free compressed air of breathable quality
- Water-injected screw compressors from 18.5 to 85.0 kW 
- Up to 40 bar, e.g. for manufacture of PET bottles
- As compact units with compressed air tank, refrigerant drier and frequency control
- Special version with plate heat exchanger – save energy and money!
- Customised models, mobile/portable, built-in units, designed to customer specifications
- For special applications: gas compression, operation of drilling apparatus, rail and special-purpose vehicles

#### SCROLL COMPRESSORS:

- for oil-free compressed air from 1.5 to 22.0 kW



#### PISTON COMPRESSORS:

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

#### COMPRESSED AIR ACCESSORIES:

- Compressed air filters, air receivers, refrigeration dryers, adsorption dryers, condensate drains and oil/water separation systems

Supplied by your RENNER distributor:

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