

Screw compressors

## Booster RS-M / RS-MF



Made in  
Germany



Pressure: 25 – 40 bar / Motor power: 18.5 – 45.0 kW



## RENNER Booster screw compressors

The RS-M Booster is designed for industrial and economical compressed air generation. The machines are ideally suited for the use of low-pressure systems, where the existing mains pressure for special requirements is compressed to any desired final pressure up to a maximum of 40 bar by the integration of a RENNER booster. The booster screw compressors in PET bottle blow molding machines, where the high compressed air requirement of PET blow molding systems is covered in conjunction with an upstream screw compressor, gained the greatest importance.

The RENNER boosters have a compact design and are equipped with a large combi-cooler for low heating of the components and thus ensure a low compressed air outlet temperature. Thanks to the robust and service-friendly design, the intervals between maintenance are longer.

## RENNER compressors: compact – robust – cost-effective

The side panels / maintenance doors are easily removable for easy access to all service parts. The self-adjusting Vbelt tensioner ensures optimum belt tension and therefore increases V-belt life. The body of the silencing canopy and its maintenance doors are powdercoated and the high-quality insulation material minimises noise levels.

The system operates automatically in full load/idling/intermittent mode. Switching intervals can be controlled and adjusted according to operational requirements. The system has multiple anti-vibration mountings to ensure exceptionally smooth operation. The unit can be mounted without a base.

## Advantages

- suitable for continuous operation
- pulsation-free compressed air
- wear-resistant compressor air-end
- low maintenance costs
- compact design, small footprint
- low vibration, no base required
- low noise level
- optimum heat recovery options
- suitable for food-grade and biodegradable oils
- two-year "no quibble" full warranty
- ready to connect with 3 m electrical cable fitted free as standard along with operating manual for instant plug and play operation



## Technical data

The RENNER booster increases the pressure at the 1st stage to 40 bar with a maximum flow rate of 10,5 m<sup>3</sup>/min (depending on the pre-pressure, motor power and other conditions).

**Inlet pressure:** 6 to 13 bar

**Outlet pressure:** 25 to 40 bar

**Pressure rate (Outlet / Inlet):** min. 2.5 / max. 6.0

**Ambient temperature:** 5 to 40°C

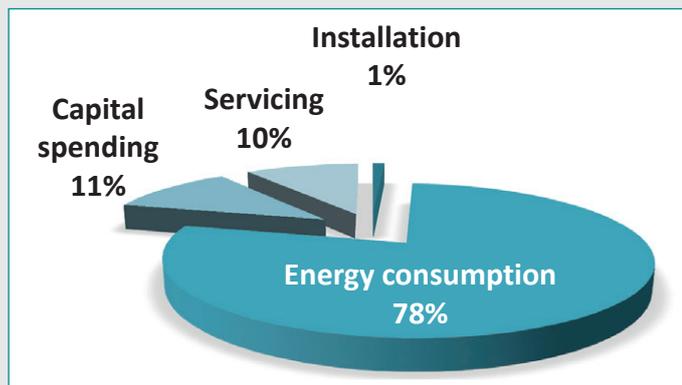
**Speed:** min. 1,500 / max. 4,500 rpm

**Drive type:** belt drive

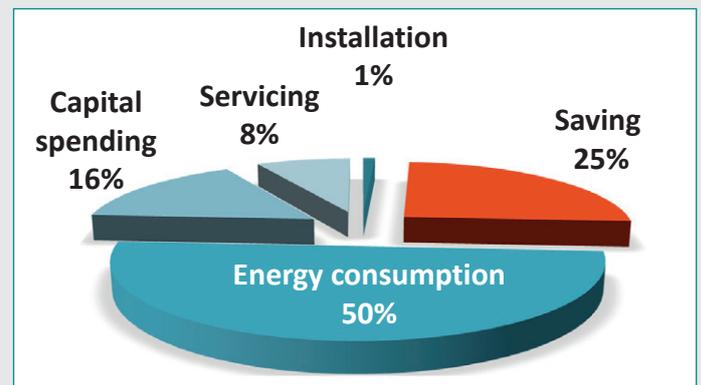
## RENNER variable speed control

Major fluctuations in compressed air requirements cannot be avoided in many factories. RENNER screw compressors with variable speed control are based on the principle that compressed air can still be generated cost-effectively even if requirements vary. The compressor output is adjusted to meet the actual air demand using the infinitely variable electronic speed control, thus guaranteeing maximum possible levels of economy. The frequency converter complete with control unit is integrated in the unit and permanently installed.

### Conventional compressor station:



### Savings after 5 years:



### RS-M / RS-MF 18.5 – 45.0

Model	Free air delivery <sup>(1)</sup>											Motor power	Noise level	Compressed air outlet	Dimensions L x W x H	Weight	
	Pre-pressure:	7.5 bar				10 bar				13 bar							
		25 bar		40 bar		25 bar		40 bar		25 bar	40 bar						
Final pressure:	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	kW	HP	dB(A) <sup>(2)</sup>	inch	mm	kg	
RS-M 18.5	4.2	148	–	–	5.6	198	–	–	–	3.1	109	18.5	25	71	G1¼	1810 x 1200 x 1835	1032
RS-M 22.0	5.2	184	–	–	6.8	240	3.5	124	–	4.3	152	22.0	30	71	G1¼	1810 x 1200 x 1835	1062
RS-M 30.0	7.6	268	4.1	145	9.4	332	5.5	194	–	6.8	240	30.0	40	74	G1¼	1810 x 1200 x 1835	1108
RS-M 37.0	–	–	5.5	194	–	–	7.2	254	–	8.8	311	37.0	50	75	G1¼	1810 x 1200 x 1835	1130
RS-M 45.0	–	–	7.2	254	–	–	9.1	321	–	10.5	371	45.0	60	76	G1¼	1810 x 1200 x 1835	1290
RS-MF 18.5	–	–	–	–	2.2-5.6	78-198	–	–	–	–	–	18.5	25	71	G1¼	1810 x 1200 x 1835	1062
RS-MF 22.0	2.0-5.2	70-184	–	–	2.2-6.8	78-240	3.0-3.5	106-124	–	3.0-4.3	106-152	22.0	30	71	G1¼	1810 x 1200 x 1835	1097
RS-MF 30.0	2.0-7.6	70-268	3.0-4.1	106-145	2.2-9.4	78-332	3.0-5.5	106-194	–	3.0-6.8	106-240	30.0	40	74	G1¼	1810 x 1200 x 1835	1149
RS-MF 37.0	–	–	3.0-5.5	106-194	–	–	3.0-7.2	106-254	–	3.2-8.8	113-311	37.0	50	75	G1¼	1810 x 1200 x 1835	1172
RS-MF 45.0	–	–	3.0-7.2	106-254	–	–	3.0-9.1	106-321	–	3.2-10.5	116-371	45.0	60	76	G1¼	1810 x 1200 x 1835	1389

<sup>(1)</sup> RS-M according to ISO 1217 Annex C / RS-MF according to ISO 1217 Annex E

Reference conditions: final pressure 40 bar; inlet temperature 30°C; reference state: 1013 mbar, 20°C. In order to select the right model, and to determine reference conditions, please contact your responsible area sales director. Other final pressures on request. Please note that the inlet concentration in the booster must be in accordance with ISO 8573-1 (2/4/2).

#### Options

Electronic control RENNERtronic Plus

#### Part no.

05591

## 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:

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