

Chimney fan RSG

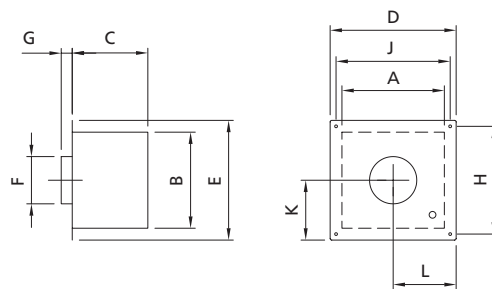
An **exodraft** chimney fan RSG provide a controllable negative pressure along the full length of the flue and chimney.

A fail-safe system is fitted in the fan which automatically measures the velocity of the flue gases. Only when the velocity exceeds the preset and safe level can the gas appliance be used. The fail-safe system prevents any spillage from the gas

appliance as well as any leaks of CO and other poisonous gases.

Fan type RSG is installed on the external wall and thereby enables a gas appliance to be installed in a room with no chimney. The power of the fan will allow for long horizontal flues up to 15 meters. A silencer type SLR is available as an accessory for the fan type RSG.

Technical data

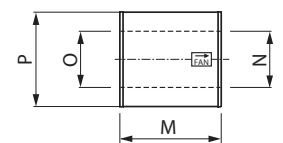


Model	Motorspecification				Weight kg	Dimensions in mm										
	RPM	V	Amp	kW*		A	B	C	D	E	F outside	G	H	J	K	L
RSG125-4-1	1400	1x230	0.3	0,04	11	265	250	220	336	320	ø121	35	280	296	153	157
RSG150-4-1	1400	1x230	0.2	0,05	14	325	310	240	400	380	ø146	35	340	360	181	186
RSG200-4-1	1400	1x230	0.4	0,11	20	405	380	275	478	453	ø196	35	413	438	215	221
RSG250-4-1	1400	1x230	0.8	0,14	31	522	482	338	600	560	ø247	60	516	556	271	279

*Effect at the motor shaft at ambient temperature: 20 °C. RPM is infinitely adjustable for all 1x230 V motors
The motor is overload protected - Motor protection class IP 54, Insulation class F

Silencer SLR (install accessory)

Type	M	N Ø inside	O Ø inside	P Ø
SLR125-280	280	128	125	240
SLR150-280	280	153	150	265
SLR200-280	280	206	203	318
SLR200-600	600	206	203	318
SLR250-280	280	256	253	370
SLR250-600	600	256	253	370



Capacity diagrams

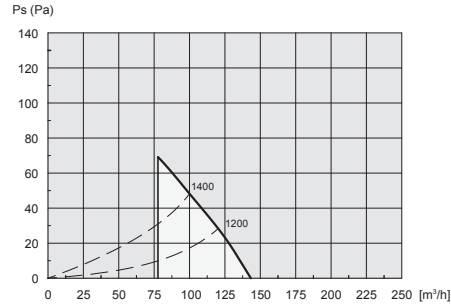
The outlet grill can be adjusted in order to enable the RSG to work with low fan speed and still have the fail-safe system working.

Low fan speed range – min. outlet / High fan speed range – max. outlet

Not an option on RSG250

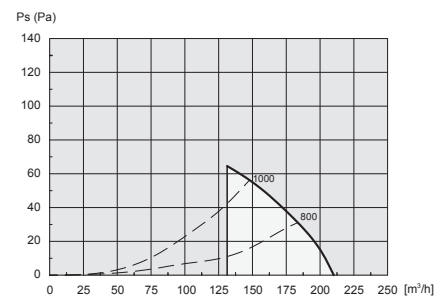
RSG 125

Capacity with minimum outlet



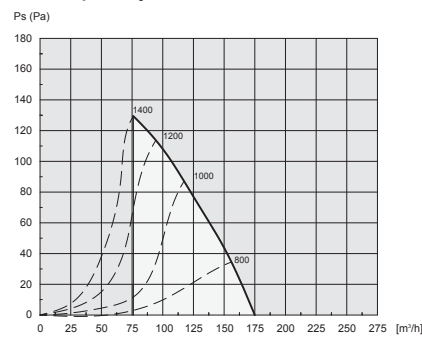
RSG 125

Capacity with maximum outlet



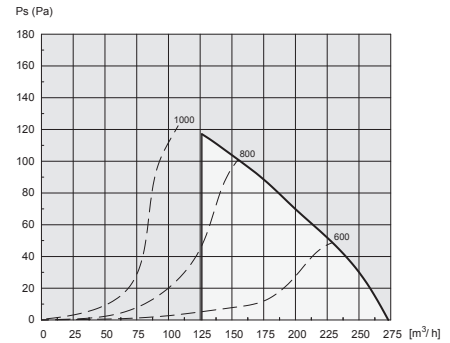
RSG 150

Capacity with minimum outlet



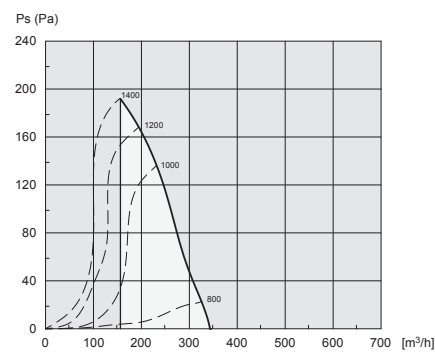
RSG 150

Capacity with maximum outlet



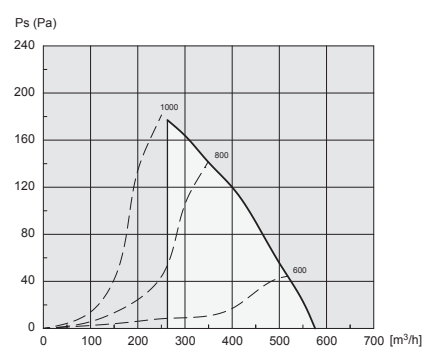
RSG 200

Capacity with minimum outlet



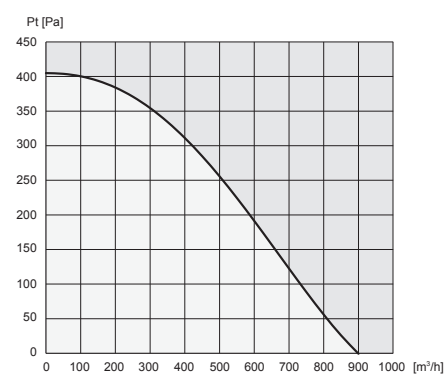
RSG 200

Capacity with maximum outlet



RSG 250

Capacity



The capacity chart is measured at a flue gas temperature of 20 °C. The fan capacity changes with temperature. Correction of system pressure loss for flue gas temperature higher than 20 °C is calculated:

$$Ps_{20} = Ps_t \times \left(\frac{273 + t \text{ (}^\circ\text{C)}}{293} \right) \quad t = \text{temperature measured in } ^\circ\text{C}$$

Example

System need: 300 m³/h and 90 Pa at 180 °C

Selection of fan: 300 m³/h and 139 Pa at 20 °C

Sound data

Soundpower levels to flue pipe. Measured in accordance to ISO 5136

Model	Lw (dB)							Lp dB (A)
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
RSG125	60	59	56	50	49	42	34	49
RSG150	61	66	61	56	53	47	40	55
RSG200	69	72	68	62	59	55	49	61
RSG250	78	71	62	57	52	50	51	63

Soundpower levels to external surroundings. Measured in accordance to ISO 3744

Model	Lw (dB)							Lw dB (A)	Lp dB (A)
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz		
RSG125-4-1	66	59	48	44	40	30	21	54	29
RSG150-4-1	75	67	52	50	44	36	29	61	35
RSG200-4-1	80	69	59	56	51	45	36	66	41
RSG250-4-1	71	72	67	61	61	62	60	70	42

Sound absorbed using silencer SLR (Lw to flue pipe)

Model	Lw (dB)						
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
SLR125-280	4	6	11	21	18	12	12
SLR150-280	2	4	11	19	14	14	9
SLR200-280	1	2	10	16	12	12	7
SLR250-280	1	1	6	14	5	5	4

Tolerance +/-3 db

Lw = Sound effect level dB. (reference: 1 pW)

Lp = Sound Pressure level dB (A) at a distance of 10 m from the fan at halfspheric sound distribution.

Lp (2 metres) = Lp (1 metre) - 6 dB.