

Chimney fan

RSVG



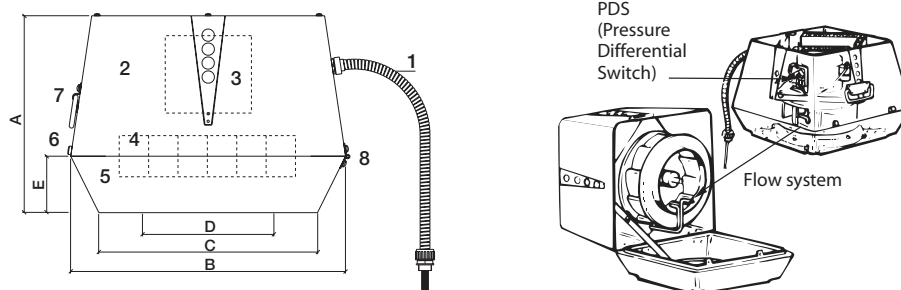
An Exodraft chimney fan RSVG is specially designed to work with heating appliances burning gas. The fans have a built-in fail-safe system consisting of a pressure differential switch and a flow measuring system. The fail-safe system complies with BS5440: 2000 Part 1 and BS6644: 1991.

The fans are normally installed on top of the chimney where the vertical discharge column prevents a plume of gas flowing down outside of the chimney. The RSVG can also be wall mounted.

Exodraft chimney fans RSVG are used with gas heating appliances and provide a controllable negative pressure along the full length of the flue and chimney. The fans guarantee optimum chimney draught irrespective of the placement, dimensions or height of the chimney which is beneficial to new or existing installations.

The fan must be connected to an Exodraft control type.

Technical data



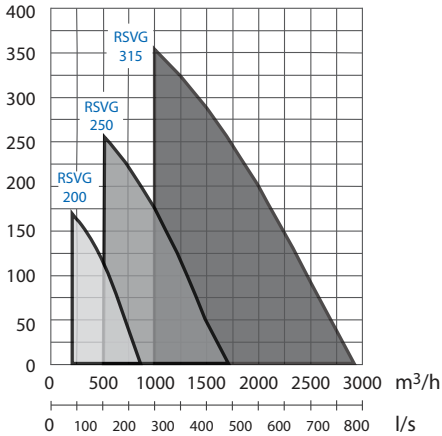
Model	Motor data				Weight kg	Dimension [mm]				
	rpm	V	Amp	kW*		A	B x B	C x C	D [Ø]	E
RSVG200-41	1400	1 x 230	0.40	0.07	18	280	390	310	200	80
RSVG250-41	1400	1 x 230	0.80	0.16	27	335	485	385	250	100
RSVG315-41	1400	1 x 230	1.80	0.37	37	380	580	465	315	115

*Effect at the motor shaft at ambient temperature of 20 °C
 The RPM of the above fan models are infinitely adjustable
 Motor protection IP rating IP54
 Insulation class F

Capacity diagrams

Please use the Exodraft fan selection chart or complete an appraisal form.

Exodraft offers a free fan selection service - the correct chimney fan and control unit are calculated according to EN 13384.



Type	Flue
RSVG200	Ø200 mm
RSVG250	Ø250 mm
RSVG315	Ø315 mm
at 1400 rpm	

The capacity diagram 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:

$$Ps_{20} = Ps_t \times \left(\frac{273 + t \text{ (°C)}}{293} \right)$$

Ps = static pressure

t = temperature measured in °C

Example

System need: 500 m³/h and 90 Pa at 180 °C

Selection of fan: 500 m³/h and 139 Pa at 20 °C

Sound data

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

Model	Lw [dB]							Lp dB [A]
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
RSVG200-41	58	60	62	61	56	44	37	36
RSVG250-41	64	68	66	65	61	49	45	41
RSVG315-41	71	75	70	73	68	57	52	48

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

Model	Lw [dB]							Lw dB [A]	Lp dB [A]
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz		
RSVG200-4	65	62	62	58	48	41	30	63	55
RSVG250-4	72	69	65	63	56	48	41	68	61
RSVG315-4	74	73	70	71	63	53	47	74	69

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 half-spheric sound distribution.

Lp = (5 metres) = Lp (10 metres) + 6dB

Lp = (20 metres) = Lp (10 metres) - 6dB