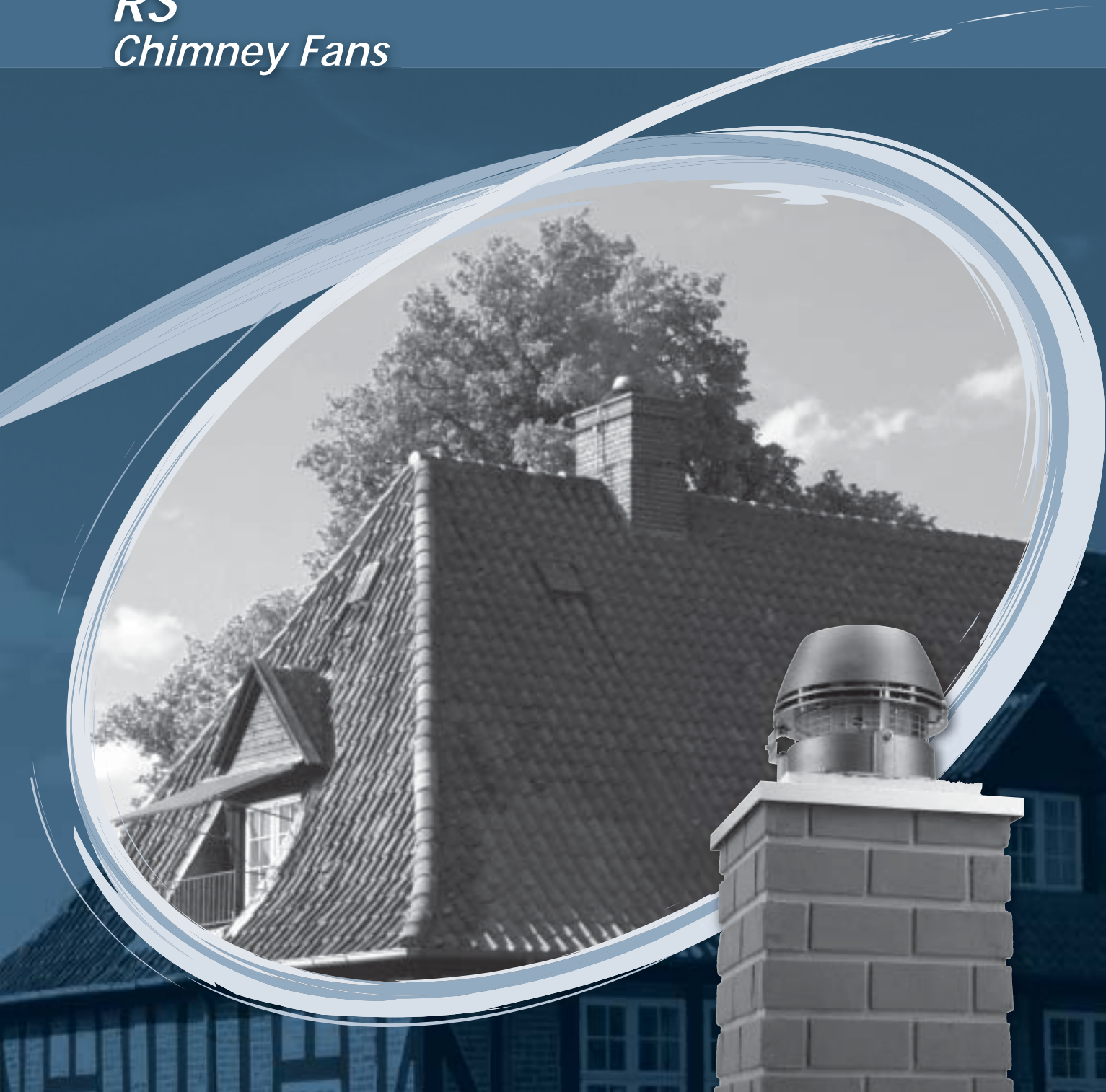


RS *Chimney Fans*



EXHAUSTO

FOR A BETTER FLOW



RS - Product Information

Description

EXHAUSTO chimney fans RS are used with 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 placing, dimensions or height of the chimney which is beneficial to new or existing installations.

The chimney fans RS are normally installed on top of the chimney and have a horizontal discharge. The RS can also be wall mounted.

The fans can be used with appliances burning solid fuel or oil. For solid fuel RS 9-16 are recommended. RS9-16 are supplied with a vane of stainless steel, which is easy to clean.

RS 255 and 285 are fitted with a backward curved centrifugal impeller made of cast aluminium and are recommended where large pressure differences exist. The range of chimney fans offers capacities which will cover any size of fireplace, stove or cooker.

Construction

EXHAUSTO chimney fans are specially made to withstand flue gas temperatures up to 250°C continuously and to work reliably in a dirty environment.

EXHAUSTO chimney fans RS are constructed of corrosion resistant cast aluminium and are supplied in grey, paint finish.

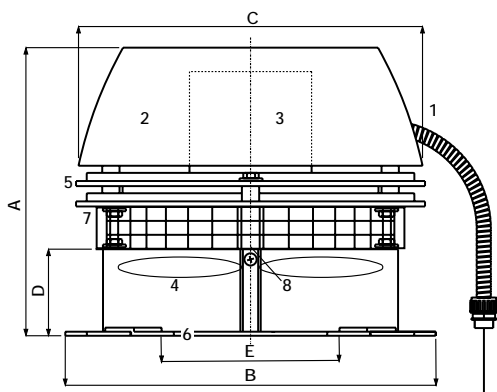
The fans are hinged for easy access for service and maintenance. The fans are supplied with a mesh safety guard covering the radial discharge.

The fans are fitted with an entirely closed, asynchronous motor with ball bearings sealed for life.

EXHAUSTO chimney fans are supplied with a 30 days money-back guarantee.

Literature for EXHAUSTO fans for gas appliances are available on request.

RS - Specifications



- 1. Motor cable
- 2. Motor housing
- 3. Motor
- 4. Vane/impeller
- 5. Ribbed cooling plate
- 6. Base plate
- 7. Hinges
- 8. Locking nut

Model	RPM	1x230V Amp/kW*	Weight kgs	A mm	BxB mm	C ø/mm	D mm	E ø/mm
RS009-4-1	1400	0.3/0.05	9	250	300	285	75	220
RS012-4-1	1400	0.4/0.09	14	275	365	350	85	280
RS014-4-1	1400	0.6/0.13	18	330	420	395	100	330
RS016-4-1	1400	1.2/0.29	25	450	480	450	100	380
RS255-4-1	1400	0.4/0.07	14	260	300	350	35	200
RS285-4-1	1400	0.8/0.18	20	290	355	395	35	230

* Max consumption

Ambient temperature: 20°C

RPM is infinitely adjustable.

Motor protection class IP 54

Insulation class F

Sound levels

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	
RS009-4	54	50	47	43	38	31	25	21
RS012-4	64	60	55	52	48	42	34	30
RS014-4	75	69	65	62	57	51	44	41
RS016-4	81	76	72	69	64	58	52	47
RS255-4	75	69	65	62	57	51	44	41
RS285-4	81	76	72	69	64	58	52	47

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 halfsperic sound distribution

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

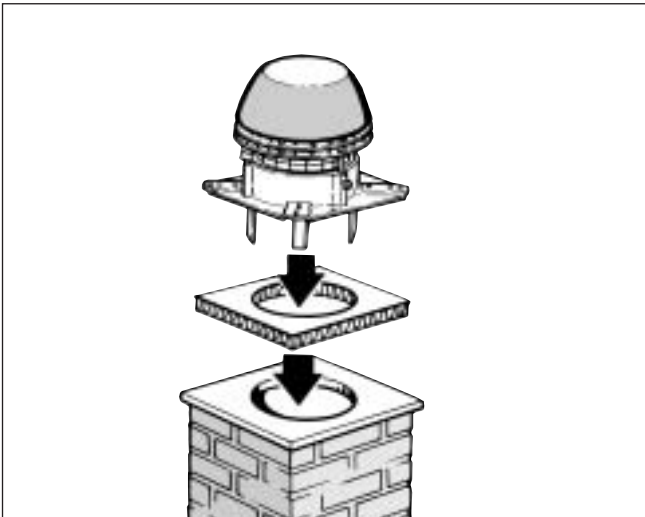
Lp (20 meter) = Lp (10 meter) - 6 dB

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		
RS009-4	66	58	50	39	35	26	11	54	43
RS012-4	72	65	59	49	47	41	31	61	53
RS014-4	82	73	63	58	52	48	38	68	61
RS016-4	83	76	67	66	61	56	45	72	67
RS255-4	82	73	63	58	52	48	38	68	61
RS285-4	83	76	67	66	61	56	45	72	67

RS - Installation

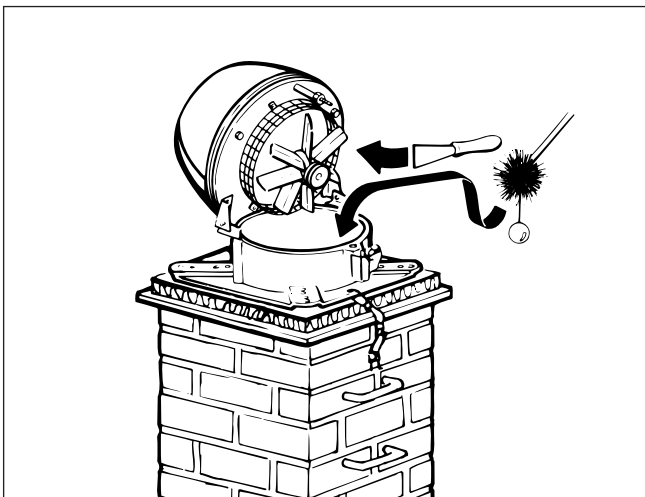


The fan is located on top of the chimney. The fans are supplied with a pre-cut glass fibre mat corresponding to the chimney fan size. Locate the location brackets in the grooves on

The underside of the fan base plate.

The glass fibre mat is placed on top of the chimney with the aluminium foil facing upwards. Locate the fan on top of it.

RS - Maintenance

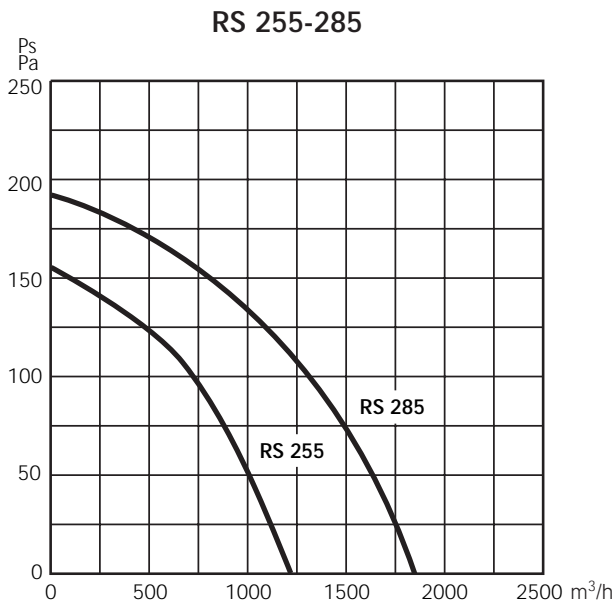
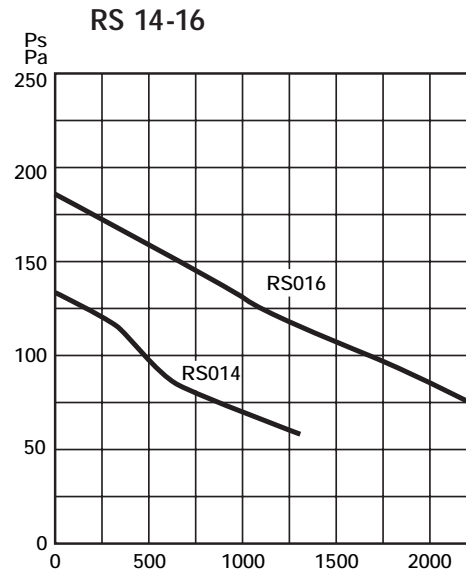
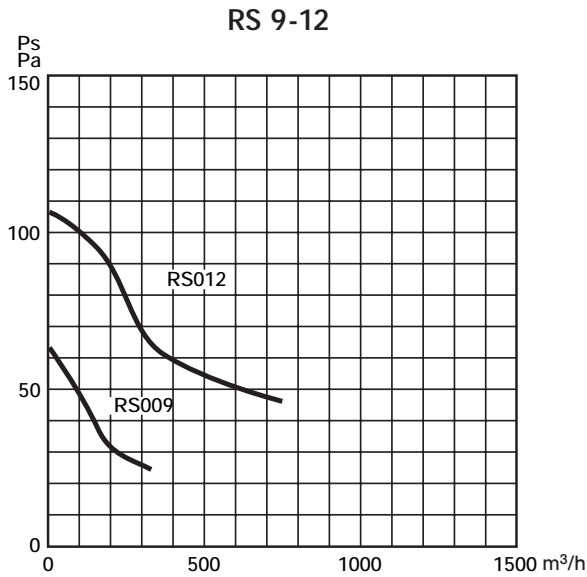


Service and cleaning of the fan should be as required depending on the fuel used (at least once a year on solid fuel).

In open position the hinged chimney fan provides easy access for service and maintenance on solid fuel.

The chimney fan should always operate whenever the heating appliance is used.

RS - Capacity charts



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

$$Ps, 20 = Ps, t \times \frac{273 + t (^{\circ}\text{C})}{293}$$

Example

System demand: 500m³/h and 90 Pa at 180°C
 Chimney fan selection: 500m³/h and 139 Pa at 20°C

RS - Chimney fan selection

Please use the EXHAUSTO fan selection chart or complete an appraisal form. EXHAUSTO offers a free fan selection service. The correct chimney fan and control unit are calculated according to EN 13384 and DIN 18895.

EXHAUSTO Chimney Fans are supplied with a 2 year warranty. EXHAUSTO is certified according to ISO 9001

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