

Chimney fan RS

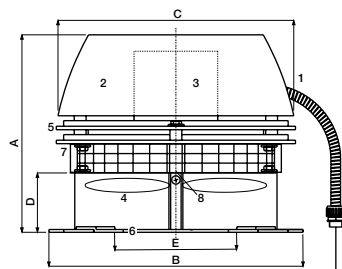
An **exodraft** RS chimney fan is a specially designed extractor fan with horizontal discharge.

The fans can be used with all types of fuel burning appliances and are especially well-suited to appliances burning solid fuel, such as biomass or solid-fuel boilers, fireplaces and wood-burning stoves.

The fan is installed on top of a chimney and creates a negative pressure (suction) along the full length of the flue and chimney.

The fan is part of an **exodraft** system and must be connected to an **exodraft** controller.

Technical data



- | | |
|----------------|-------------------|
| 1. Motor cable | 5. Cooling plate |
| 2. Top section | 6. Base plate |
| 3. Motor | 7. Hinges |
| 4. Vane | 8. Locking screws |

| Technical data | | | | | | | | | | |
|----------------|----------------------|---------|-----|------|--------------|----------------|-----|-----|-----|-----|
| Model | Motor specifications | | | | Weight kg | Dimension (mm) | | | | |
| | rpm | V | Amp | kW* | | A | B | C Ø | D | E Ø |
| RS009-4-1 | 1400 | 1 x 230 | 0.3 | 0.05 | 9 | 250 | 300 | 285 | 75 | 220 |
| RS012-4-1 | 1400 | 1 x 230 | 0.4 | 0.09 | 14 | 275 | 365 | 350 | 85 | 280 |
| RS014-4-1 | 1400 | 1 x 230 | 0.6 | 0.13 | 18 | 330 | 420 | 395 | 100 | 330 |
| RS016-4-1 | 1400 | 1 x 230 | 1.2 | 0.29 | 25 | 405 | 480 | 450 | 100 | 380 |
| RS255-4-1 | 1400 | 1 x 230 | 0.4 | 0.07 | 14 | 260 | 300 | 350 | 35 | 200 |
| RS285-4-1 | 1400 | 1 x 230 | 0.8 | 0.18 | 20 | 290 | 355 | 395 | 35 | 230 |

*Power consumption at ambient temperature of 20 °C

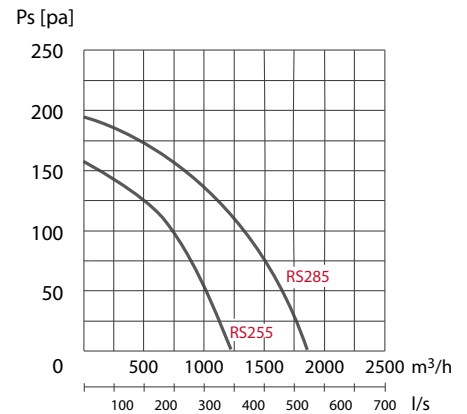
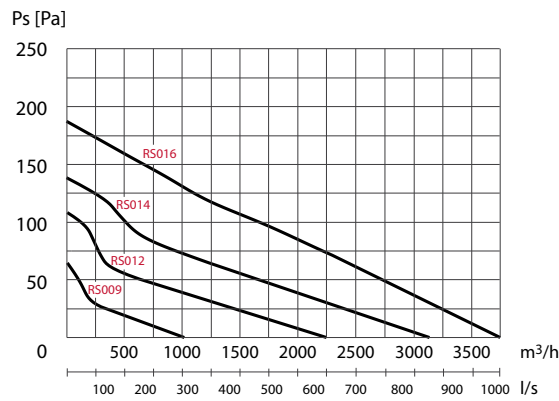
The RPM of the above fan models are infinitely adjustable

Motor protection IP rating IP54

Insulation class F

The RS009 and RS012 fans can also be supplied with an octagonal bottom section, specially designed for circular chimneys.

Capacity diagrams



| Type | Test flue diameters |
|-------------|---------------------|
| RS009 | Ø 160 mm |
| RS012 | Ø 200 mm |
| RS014 | Ø 250 mm |
| RS016 | Ø 315 mm |
| RS255 | Ø 200 mm |
| RS285 | Ø 250 mm |
| at 1400 rpm | |

PLEASE NOTE: The capacity diagrams are measured with a flue gas temperature of 20 °C. The fan's capacity changes with the temperature of the flue gases. The correction of the capacity can be calculated using the following equation:

$$P_{s_{20}} = P_{s_t} \times \frac{273 + t}{293}$$

P_s = static pressure
 t = temperature measured in °C

Example

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

Fan selection: 500 m³/h and 139 Pa at 20°C

Sound data

| Sound levels to external surroundings (ISO 3744) | | | | | | | | |
|--|---------|--------|--------|---------|---------|---------|---------|-------------|
| Model | Lw (dB) | | | | | | | Lp (dB (A)) |
| | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | |
| RS009-4-1 | 54 | 50 | 47 | 43 | 38 | 31 | 25 | 21 |
| RS012-4-1 | 64 | 60 | 55 | 52 | 48 | 42 | 34 | 30 |
| RS014-4-1 | 75 | 69 | 65 | 62 | 57 | 51 | 44 | 41 |
| RS016-4-1 | 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 10 m distance from the fan at half spheric sound distribution

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

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

exodraft a/s

C. F. Tietgens Boulevard 41

5220 Odense SØ

Denmark

www.exodraft.com