



## ZRS Roof Fans

**Roof fan that easily tackles draughts, smoke and gas from your chimney**

- Special fan for chimneys - transfer high temperature gases up to 200°C
- Simple installation with brackets included
- Robust and compact design

[Find more details in our online catalogue](#)

### Fit-for-purpose

Systemair flue-gas fans **counteract drafts** caused by **stoves, ovens** and **open fireplaces**.

The **ZRS 170** is suitable for fireplaces with an aperture up to **0,35 m²** and the **ZRS 180** is intended for fireplaces with an aperture between **0,35 and 0,80 m²**.

### Easy to install

ZRS fan is a discreet and compact unit with a low profile. Fan should be positioned on the **top of the chimney** with no requirements of fixing into the chimney itself. That means that fan can be installed in various different installation purposes.

## Features

### Construction

The ZRS fans have a black colored casing made of **cast aluminium alloy**.

Fans are supplied with **1 m armoured cable** and a **junction box**. **Steel cables** are provided to give **extra support** for the fan during chimney sweeping and similar operations.

### Impeller

Fan completed with **single inlet** impeller is made of **stainless steel** (rust- and acid-resistant) to support high temperature continuous operation.

### Motor

ZRS fans are equipped with **AC** motor **insulation class F**, supported by **long-life** ball bearings. Motor completed with own hot-dip galvanized impeller for addition cooling.

### Motor protection

To protect from overheating, all motors are equipped with internally connected **thermal overload protector** (TOP).

### Control

ZRS fans are controlled by **5-step** or **stepless** speed regulator provided as accessory.

### Installation

ZRS fans are positioned on the **top of the chimney** and fixed with four adjustable locating rods which are inserted down the chimney. No fixing into the chimney itself is required.

## Technical parameters

### Nominal data

Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	56	W
Input current	0.26	A
Impeller speed	2,746	rpm
Air flow	max 518	m³/h
Capacitance of capacitor	2	µF
Temperature of transported air	max 200	°C

### Sound data

Sound pressure level at 10m (free field)	41	dB(A)
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### Protection/Classification

Enclosure class, motor	IP44
Insulation class	F

### Data according to ErP

ErP ready	Not ErP relevant
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### Dimensions and weights

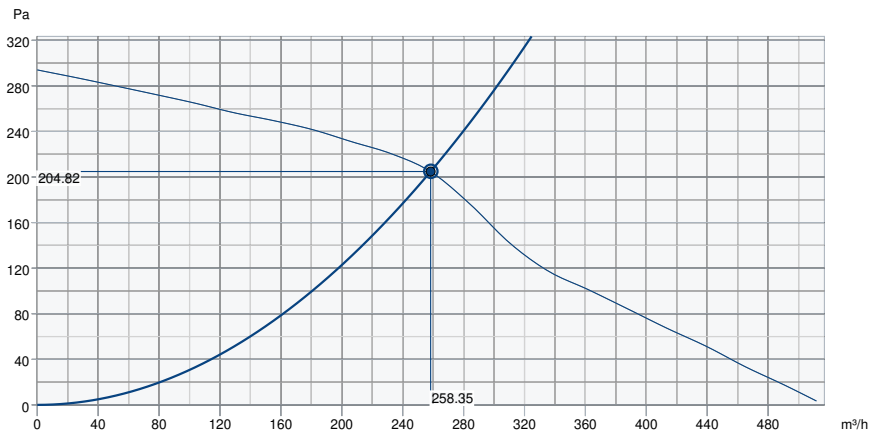
Weight	8.2	kg
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### Others

Color name, casing	Black
Motor type	AC

## Performance

### Performance curve



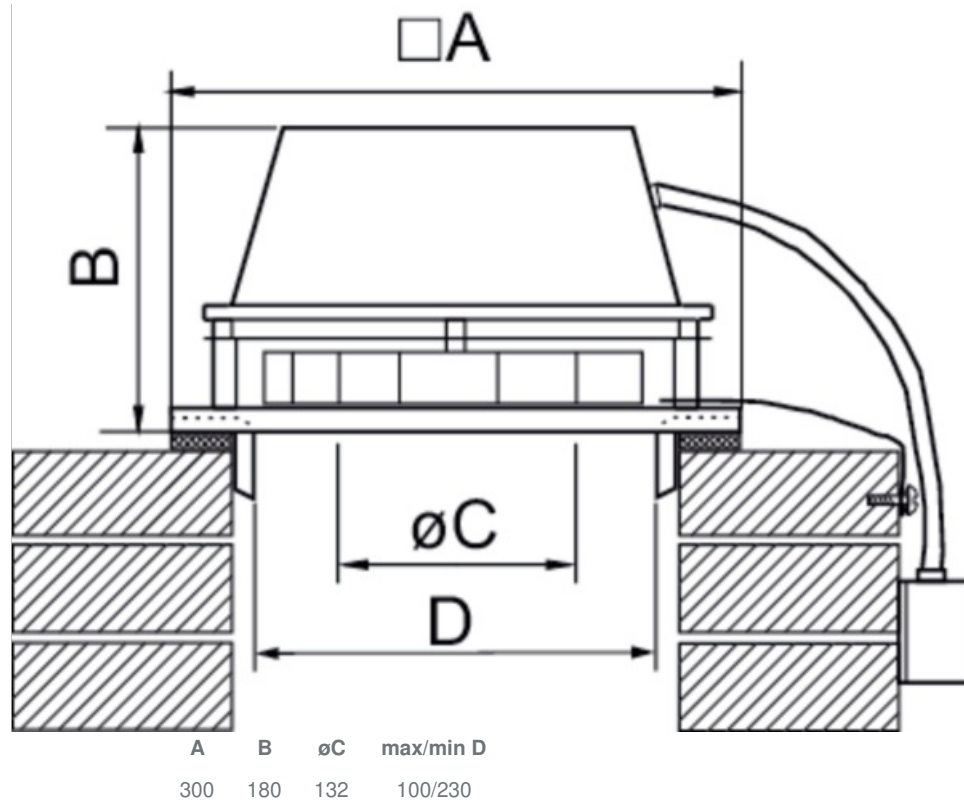
#### Hydraulic data

Required air flow	258 m³/h
Required static pressure	205 Pa
Working air flow	258 m³/h
Working static pressure	205 Pa
Air density	1.204 kg/m³
Power	73.4 W
Fan control - RPM	2,547 rpm
Current	0.30 A
SFP	1.023 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

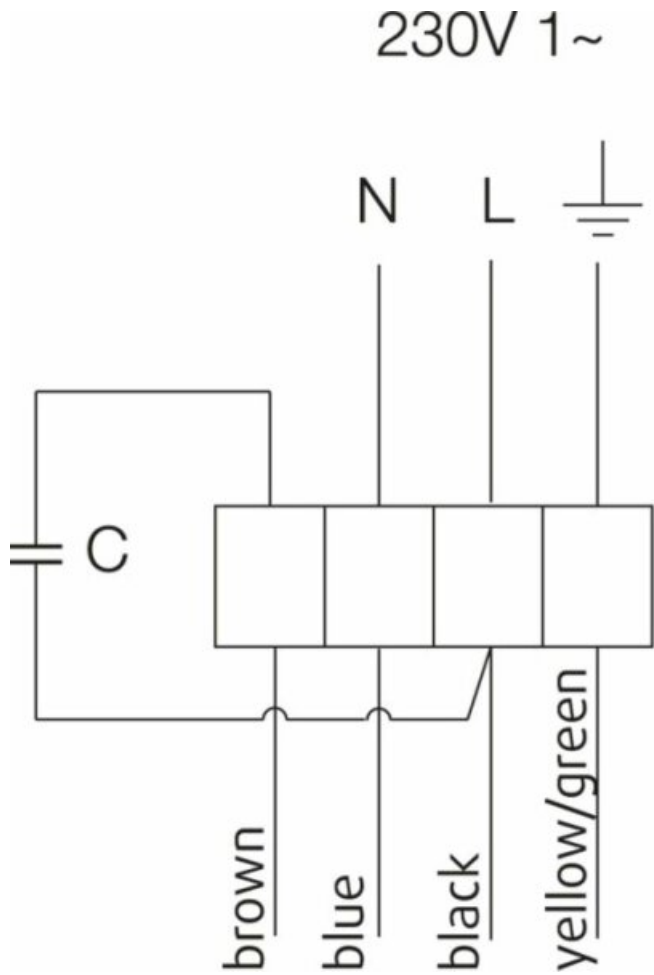
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	33	48	60	62	60	58	50	48	67
Outlet	dB(A)	33	51	68	66	68	66	60	55	73

#### Accessories

## Dimension



## Wiring



## Accessories

- RE 1,5 Speed control (5000)
- Safety switch 2-pole grey (210679)
- REE 1 Speed control (5314)

## Documents

- [INSTALLATION\\_\\_OPERATION\\_AND\\_MAINTENANCE\\_INSTRUCTION\\_ZRS\\_CE\\_EN\\_002.PDF](#)
- [COMMISSIONING\\_RECCORD\\_FANS\\_\\_EN.PDF](#)