F03 · CENTRIFUGAL & MIXED-FLOW DUCT FANS

# AS-CFG-PS

## Commercial Round Duct Centrifugal Fans – Plastic Body

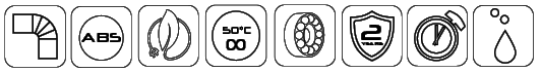


AS-CFG-PS round duct centrifugal fans have a plastic casing that makes them lightweight and corrosion-resistant. They are intended for ventilation systems with low airflow requirements, mount easily in round ducts, run quietly and keep energy consumption low.

The plastic casing has round duct connections for in-line installation. Air discharge can be horizontal or vertical. The backward-curved aluminium impellers, balanced to ISO 1940-1, cover sizes from Ø100 to Ø315 mm.

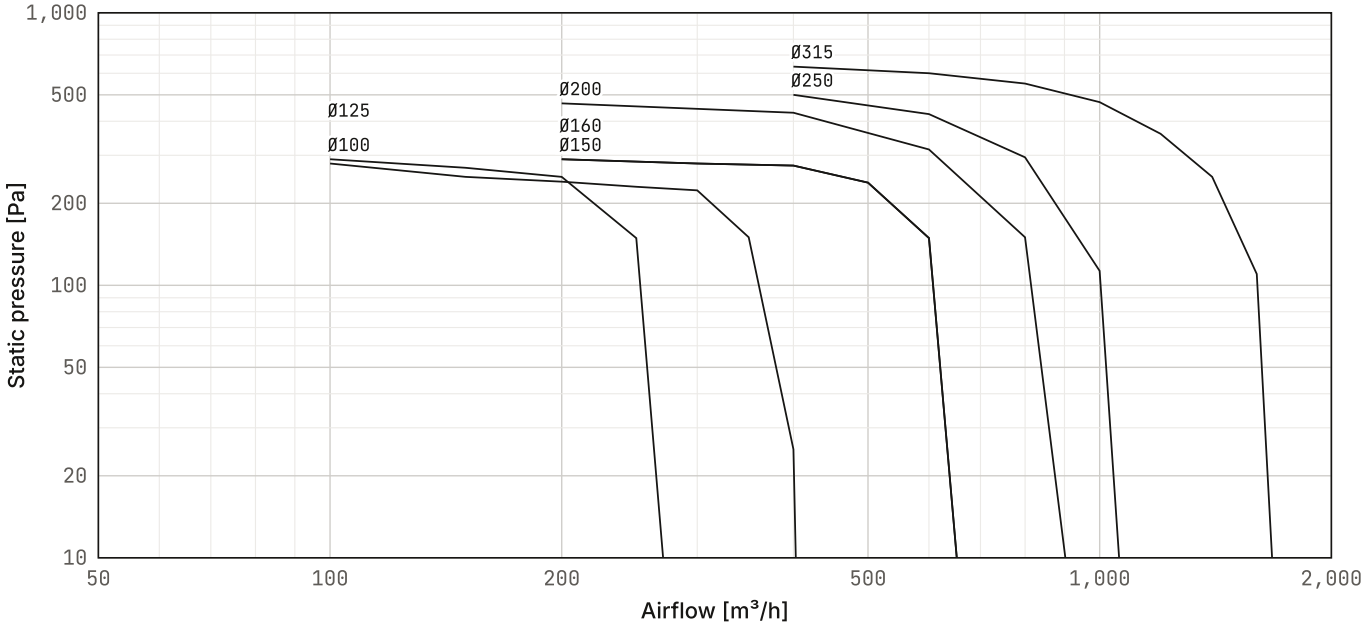
The direct-drive, 2-pole external-rotor motors run on a 230 V single-phase supply, with IP44 protection and class F insulation, rated for S1 and S2 duty. Versions for 50 Hz and 60 Hz supplies are available. Operating air temperature: −20 °C to +50 °C. Standards: IEC 60335-2-80, ISO 1940-1.

| AIRFLOW UP TO | STATIC PRESSURE UP TO | IMPELLER Ø | MOTOR POWER |
|---|---|---|---|
| 1,750 m³/h | 690 Pa | 100 – 315 mm | 0.05 – 0.08 kW |
| **SPEED** | **SUPPLY** | **TEMPERATURE CLASS** | **MOTOR** |
| 2,600 – 2,685 min⁻¹ | 230 V 1~ · 50 Hz | 50°C | IP44 · F |




## Selection chart

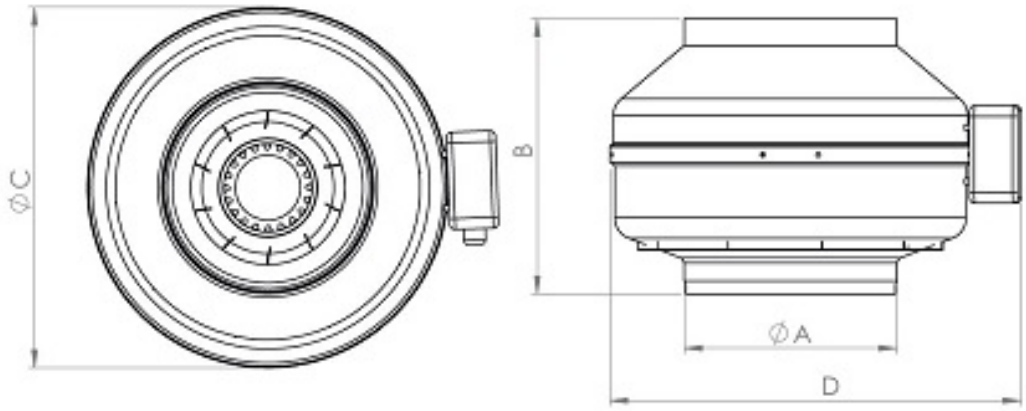
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor.



## Technical data 50 Hz

| Model | Ø [mm] | Motor [kW] | Speed [min⁻¹] | Supply | I [A] | Max. airflow [m³/h] | Max. pressure [Pa] | LpA 1 m [dB(A)] |
|---|---|---|---|---|---|---|---|---|
| AS-CFG-PS 100 | 100 | 0.05 | 2,600 | 230 V 1~ | 0.5 | 290 | 320 | 40 |
| AS-CFG-PS 125 | 125 | 0.05 | 2,600 | 230 V 1~ | 0.5 | 410 | 320 | 40 |
| AS-CFG-PS 150 | 150 | 0.05 | 2,600 | 230 V 1~ | 0.5 | 700 | 322 | 42 |
| AS-CFG-PS 160 | 160 | 0.05 | 2,600 | 230 V 1~ | 0.5 | 700 | 322 | 44 |
| AS-CFG-PS 200 | 200 | 0.06 | 2,675 | 230 V 1~ | 0.6 | 1,000 | 590 | 44 |
| AS-CFG-PS 250 | 250 | 0.08 | 2,685 | 230 V 1~ | 0.6 | 1,120 | 590 | 46 |
| AS-CFG-PS 315 | 315 | 0.08 | 2,615 | 230 V 1~ | 1.1 | 1,750 | 690 | 48 |

## Dimensions [mm]

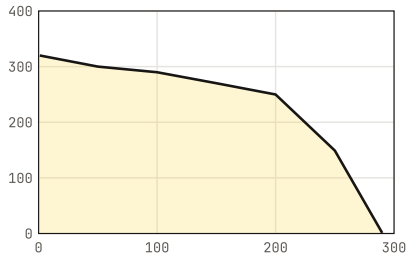



| Model | A | B | C | D |
|---|---|---|---|---|
| AS-CFG-PS 100 | 100 | 208 | 246 | 290 |
| AS-CFG-PS 125 | 125 | 208 | 246 | 290 |
| AS-CFG-PS 150 | 150 | 196 | 270 | 320 |
| AS-CFG-PS 160 | 160 | 196 | 270 | 320 |
| AS-CFG-PS 200 | 200 | 255 | 333 | 380 |
| AS-CFG-PS 250 | 250 | 234 | 331 | 380 |
| AS-CFG-PS 315 | 315 | 283 | 401 | 450 |

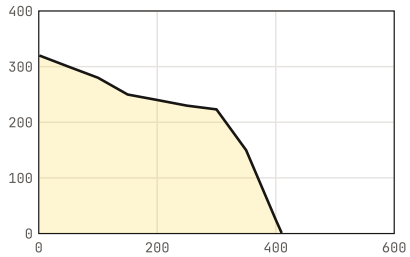
## Performance curves

Static pressure [Pa] vs airflow [m³/h], standard motor, 1.204 kg/m³.

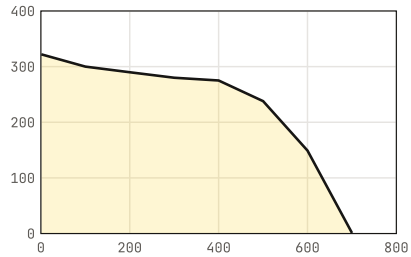
**AS-CFG-PS 100** 2,600 min⁻¹ · 0.05 kW



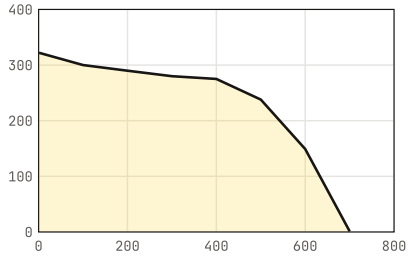

**AS-CFG-PS 125** 2,600 min⁻¹ · 0.05 kW



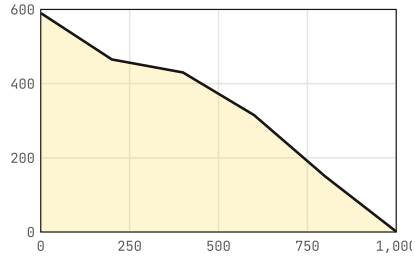

**AS-CFG-PS 150** 2,600 min⁻¹ · 0.05 kW



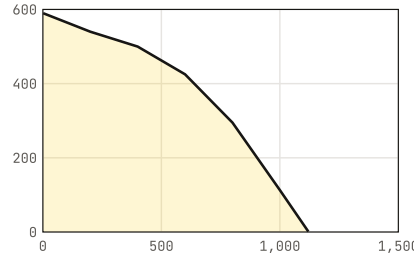
**AS-CFG-PS 160** 2,600 min⁻¹ · 0.05 kW



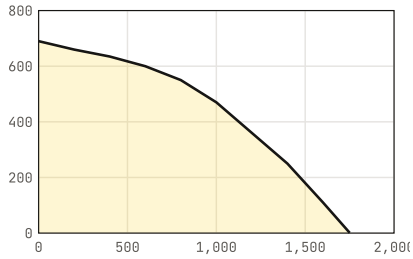

**AS-CFG-PS 200** 2,675 min⁻¹ · 0.06 kW




**AS-CFG-PS 250** 2,685 min⁻¹ · 0.08 kW




**AS-CFG-PS 315** 2,615 min⁻¹ · 0.08 kW




## Sound power level Lw [dB] per octave band

casing radiated · 63–8000 Hz

| Model | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Total | LpA 1 m [dB(A)] |
|---|---|---|---|---|---|---|---|---|---|---|
| AS-CFG-PS 100 | 26 | 37 | 52 | 51 | 52 | 50 | 47 | 42 | **58** | 40 |
| AS-CFG-PS 125 | 26 | 37 | 52 | 51 | 52 | 50 | 47 | 42 | **58** | 40 |
| AS-CFG-PS 150 | 28 | 39 | 54 | 53 | 54 | 52 | 49 | 44 | **60** | 42 |
| AS-CFG-PS 160 | 30 | 41 | 56 | 55 | 56 | 54 | 51 | 46 | **62** | 44 |
| AS-CFG-PS 200 | 30 | 41 | 56 | 55 | 56 | 54 | 51 | 46 | **62** | 44 |
| AS-CFG-PS 250 | 32 | 43 | 58 | 57 | 58 | 56 | 53 | 48 | **64** | 46 |
| AS-CFG-PS 315 | 34 | 45 | 60 | 59 | 60 | 58 | 55 | 50 | **66** | 48 |

**Notes**

Sound pressure level at 1 m (free field) from the AEROMIS product database.
7 model(s) also available for 60 Hz — see the fan selector.
Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.