

AR Axial Fans

Low-pressure axial duct fan

- Available with AC motors for 50 and 60Hz
- Installation in any position
- Noise and energy-optimised impeller

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



Flexible

The AR fans are **designed** for extracting air in **low pressure systems**. They can be installed in any position and way according to your demands.

This ensures that the fans can be used in a variety of **commercial** and **industrial** applications.

Performance

The **noise-optimised** axial impellers together with the **highly efficient** external rotor motors are designed to ensure high-level performance to **minimise power consumption** and **maximise efficiency**.

Features

Construction

The round casing is made of galvanised steel with powder coating in RAL9005.

The **complete** range is provided **with inlet protection grid**. An **outlet protection grid** is **available as accessory**.

Depending on type, the fans are equipped with an external **terminal box**, protection class **IP44** or **IP54**.

Impeller

The AR fans use **axial impellers**. These are made of **coated steel**, **composite** material or **aluminium**, are dynamically **balanced** and are paired with corresponding external rotor motors.

Motor

AR fans are equipped with an **AC external rotor motor**. The motors are suitable for **50Hz** and **60Hz**.

Motor protection

The **AC** motors are equipped with prewired integral **thermal contact** with leads to be connected to a **motor protection unit**.

Control

The **AC motor** can be controlled by **5-step**, **stepless** speed regulator or **frequency inverter**.

Installation

The AR fans can be installed in **any position** in the **duct** in **indoor** environments.

Technical parameters

Nominal data

Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Motor circuit connection	D	
Input power	260	W
Input power kW	0.26	kW
Input current	1.15	A
Impeller speed	1,320	rpm
Air flow	max 1.226	m³/s
Capacitance of capacitor	5	µF
Temperature of transported air	max 55	°C
Max temperature of transported air, when speed controlled	55	°C

Sound data

Sound pressure level at 1m	66	dB(A)
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Protection/Classification

Enclosure class, motor	IP54
Insulation class	F

Data according to ErP

ErP ready	ErP 2018
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Dimensions and weights

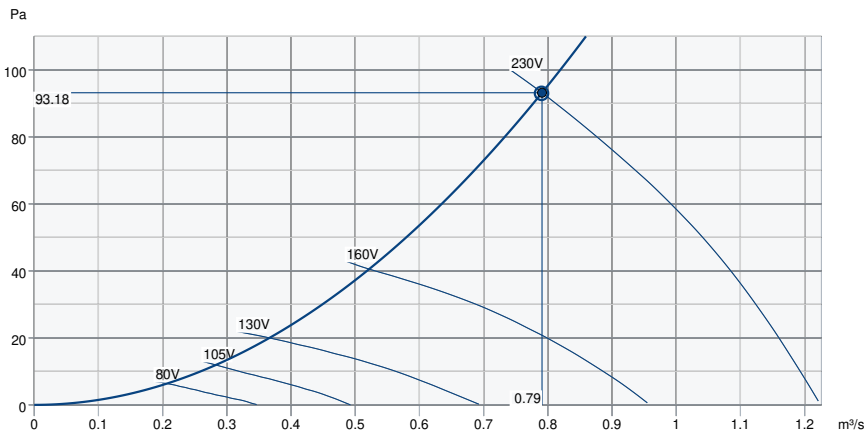
Duct dimension; Circular, inlet	400	mm
Duct dimension; Circular, outlet	400	mm
Weight	10.1	kg

Others

Duct connection type	Circular
Color name, casing	Black
Motor type	AC

Performance

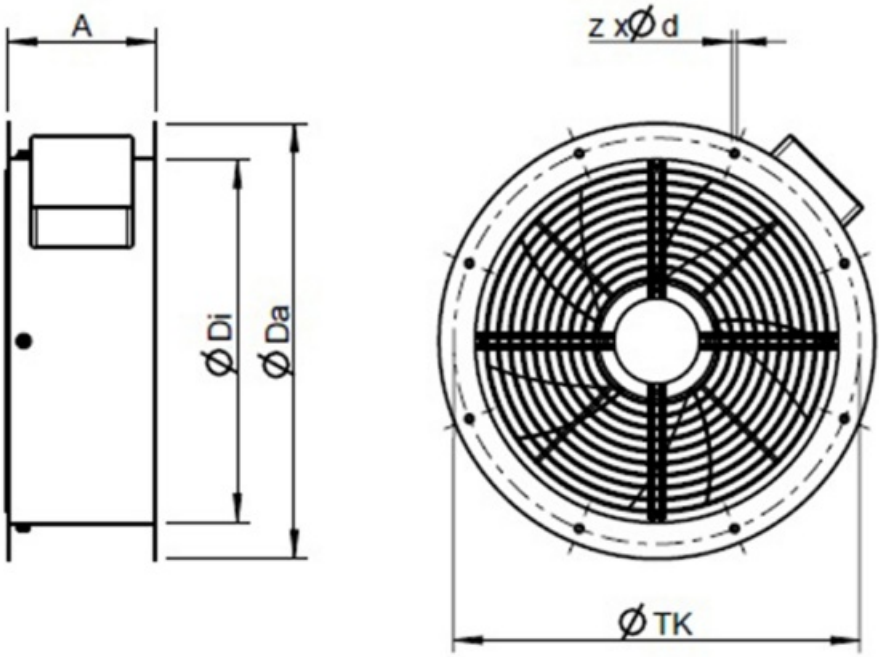
Performance curve



Hydraulic data

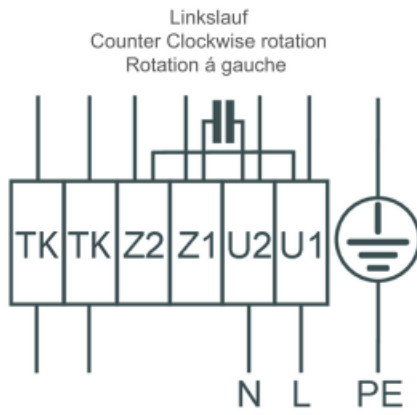
Required air flow	0.79 m³/s
Required static pressure	93 Pa
Working air flow	0.79 m³/s
Working static pressure	93 Pa
Air density	1.204 kg/m³
Power	257.1 W
Fan control - RPM	1,322 rpm
Current	1.13 A
SFP	0.325 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Dimension



	A	B	C	ØDi	ØDa	z x Ød	ØTK
AR 400E4 sileo	155	16	138	400	480	8 x Ø12	450
AR 400DV sileo	155	16	138	400	480	8 x Ø12	450

Wiring



Accessories

- AWE-SK Motorprotection 2A/230V (5138)
- GFL-AR/AXC 400 counter flange (8378)
- REE 2 Speed control (5316)
- REV-5POL/05-7,5kW R/Y (33979)
- SG AXC/AM/AR 400 guard grill (310687)
- EV-AR/AXC 400 flex.conn. 70°C (8354)
- MFA-AXC/AM 400 mounting foot (311285)
- REU 1.5 Speed control (5004)
- RTRE 1,5 Speed control (5008)

Documents

- BAL-AXIAL-SILEO-SYSTEMAIR-08-2013.PDF
- installation variations_1_AR_AW.pdf