

AW Axial Fans

Low pressure axial wall fans up to 39.000 m³/h

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

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



Flexible

The AW 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 optimized** axial impellers together with the **high efficient** external rotor motors are designed to ensure high-level performance to **minimize power consumption** and **maximize efficiency**.

Features

Construction

The square wall plate is made of galvanized steel with powder coating in RAL9005.

The range with **AC motors**, sizes **200-630** are provided **with inlet protection grid** and sizes **710-1000 without inlet protection grid**.

The **complete** range with **EC motors** is provided **with inlet protection grid**.

Depending on the type, the fans are equipped with an external **terminal box**, protection class **IP44, IP54 or IP55**.

Impeller

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

Motor

Depending on type, AW fans are equipped with an **AC** or **EC external rotor motor**. The motors are suitable for **50Hz** and **60Hz**.

Motor protection

Sizes **200-300** with **AC** motors are available with **integrated** thermal protection with manual (electrical) reset.

Sizes **200-1000** with **AC** motors are available with prewired integral **thermal contact** with leads to a **motor protection device**.

Models with **EC** motors have an **integrated** electronic, **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

EC motors can be controlled by an external **signal of 0-10V**.

EC motors depending on size are also equipped with **ModBus** communication or **alarm signal**.

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

Installation

The AW fans can be installed in **any position** on **wall** or **ceiling** in **indoor** environments.

Technical parameters

Nominal data

Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Motor circuit connection	D	
Input power	145	W
Input power kW	0.145	kW
Input current	0.655	A
Impeller speed	1,228	rpm
Air flow	max 2,117	m³/h
Capacitance of capacitor	3	µF
Temperature of transported air	max 65	°C
Max temperature of transported air, when speed controlled	65	°C

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

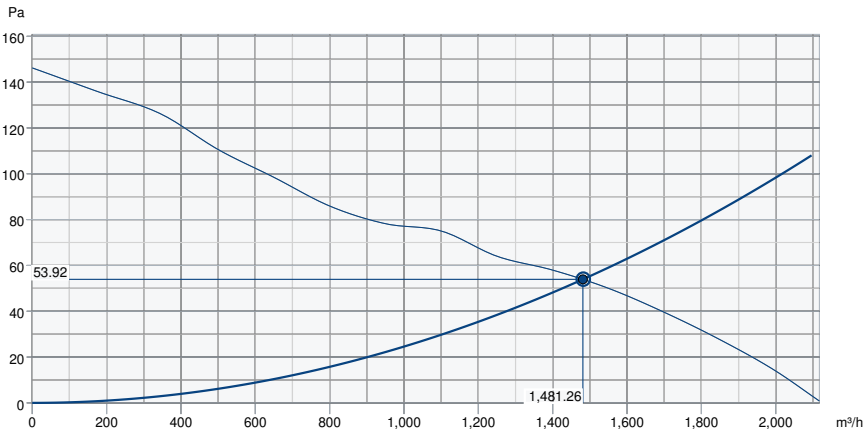
Weight	5.7	kg
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Others

Color name, casing	Black
Motor type	AC

Performance

Performance curve

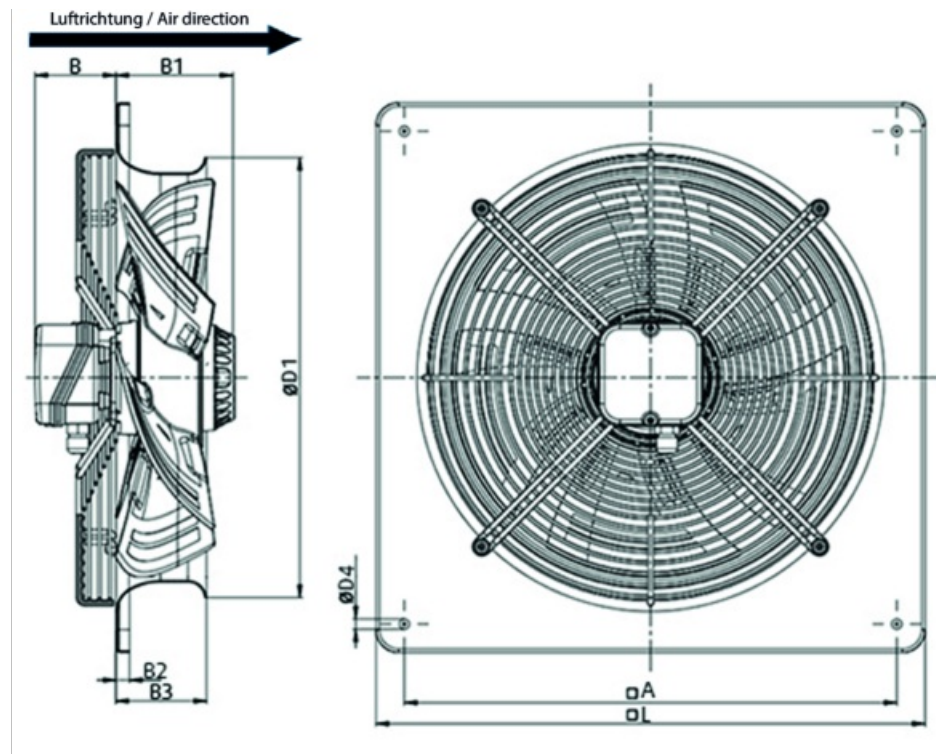


Hydraulic data

Required air flow	1,482 m³/h
Required static pressure	54 Pa
Working air flow	1,481 m³/h
Working static pressure	54 Pa
Air density	1.204 kg/m³
Power	106.3 W
Fan control - RPM	1,355 rpm
Current	0.50 A
SFP	0.258 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)	44	48	48	50	53	52	48	38	59
Outlet	dB(A)	45	49	49	51	54	53	48	39	59

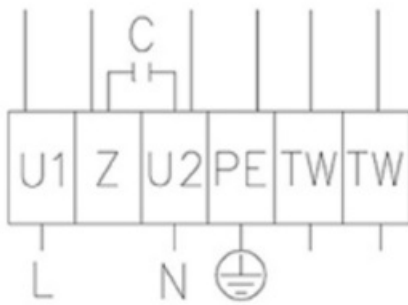
Dimension



	B	B1	øD1	B2	B3	øA	øL	øD4
AW 315E4 sileo	76	83	345	11	73	380	430	9

Wiring

Einphasen-Wechselstrommotor mit Betriebskondensator
 Singlephase AC motor with capacitor



U₁ =blau/blue
 Z =braun/brown
 U₂ =schwarz/black
 PE =grün/gelb
 green/yellow

Accessories

- AWE-SK Motorprotection 2A/230V (5138)
- REE 1 Speed control (5314)
- REV-5POL/05-7,5kW R/Y (33979)
- VK-30 Louvre shutter (5641)
- Motor protect. switch S-ET 10 (161199)
- REU 1.5 Speed control (5004)
- RTRE 1,5 Speed control (5008)
- VK-30 Louvre shutter (87688)

Documents

- MANUAL_AW__AR_EBM_EN_003-MIN.PDF
- DWG - 37407
- EU Declaration of Conformity_002
- installation variations_2_AR_AW.pdf