

## AR 710E6 sileo Axial fan

### Axial duct fan

Item Number: [34482](#)

Variant: 230V 1~ 50Hz

speed controllable by voltage reduction  
 inlet protection guard available as accessory  
 safe and maintenance free operation  
 can be installed in any mounting position  
 electric connection via terminal box mounted on the casing  
 supplied with capacitor

Axial fans of the AR sileo range do have a bionic shape of the fan blade, and are driven by external rotor motors. The AR range is mounted in a round casing according Eurovent 1/2 made from galvanized steel and are completely painted in black (RAL9005). The protection guard as an accessory is powder coated in black. The axial impeller is manufactured from pressure die cast aluminum and is painted in black. The impeller is balanced dynamically in two levels in accordance with DIN ISO 1940 part 1, quality G6.3.

The motors are equipped with thermal contacts for motor protection, with leads to be connected to a motor protection unit, for example Systemair unit S-ET.



### Technical parameters

Normal data		
Voltage (Nominal)	230	V
Frequency	50	Hz
Phase(s)	1~	
Motor circuit connection	D	
Input power	950	W
Input current	4.4	A
Impeller speed	850	r.p.m.
Air flow	max 3.859	m³/s
Air flow at max. efficiency	2.454	m³/s
Specific ratio	1,000000	
Capacitance of capacitor	16	µF
Temperature of transported air	max 65	°C
Max temperature of transported air, when speed controlled	65	°C

**Sound data**

Sound pressure level at 1m	67	dB(A)
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**Protection/Classification**

Enclosure class, motor	IP54
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Insulation class	F
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**Data according to ErP**

ErP ready	ErP 2018
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Measurement category	A
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Efficiency grade	42	$\eta_{\text{actual}}$
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Efficiency, static	35.2	$\eta_{\text{statA}}$
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Target efficiency grade ErP2013	36	$\eta_{\text{target2013}}$
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Target efficiency grade ErP2015	40	$\eta_{\text{target2015}}$
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**Dimensions and weights**

Duct dimension; Circular, inlet	710	mm
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Duct dimension; Circular, outlet	710	mm
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Weight	35.7	kg
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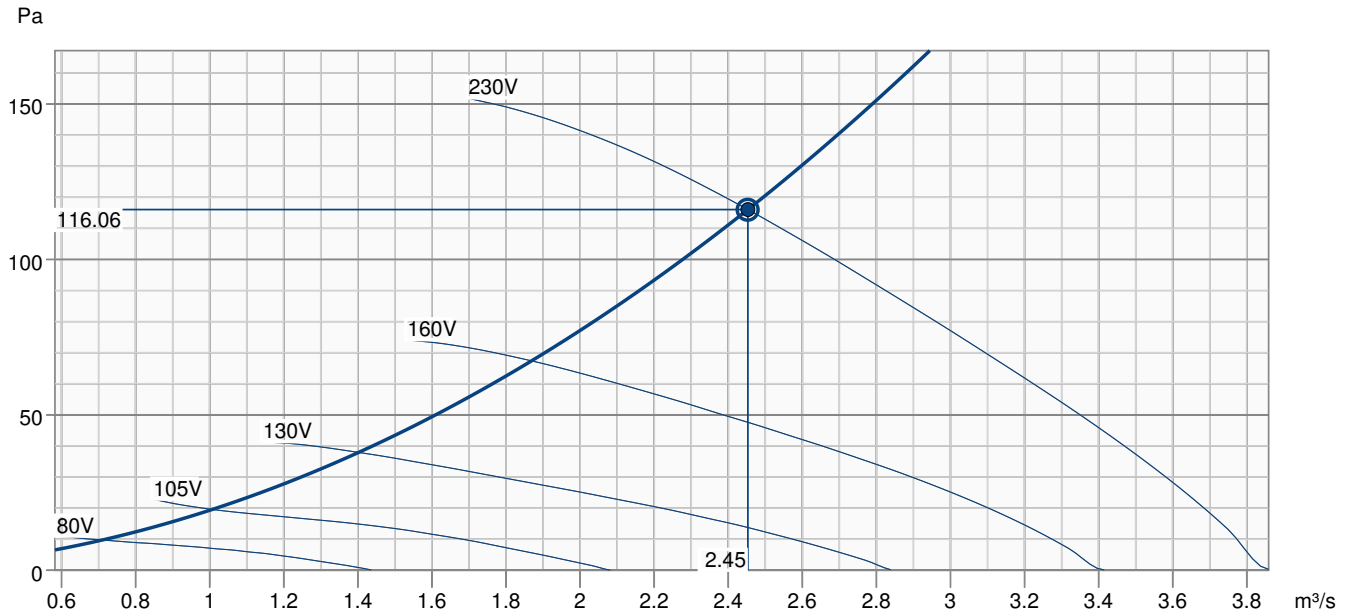
**Others**

Duct connection type	Circular
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Color name, casing	Black
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Motor type	AC
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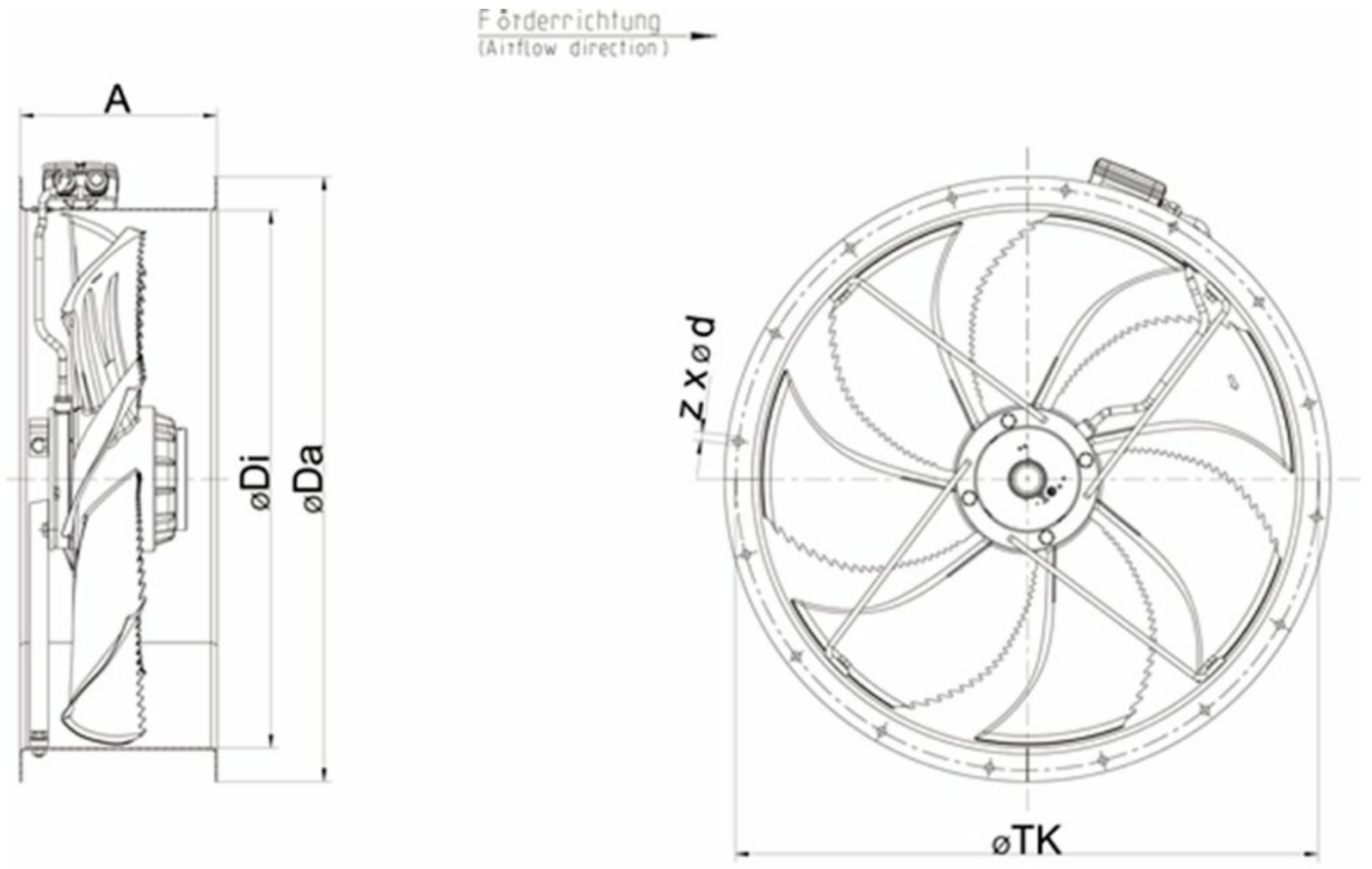
## Performance curve



### Hydraulic data

Required air flow	2.45 m³/s
Required static pressure	116 Pa
Working air flow	2.45 m³/s
Working static pressure	116 Pa
Air density	1.204 kg/m³
Power	839.7 W
Fan control - RPM	881 rpm
Current	3.79 A
SFP	0.342 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

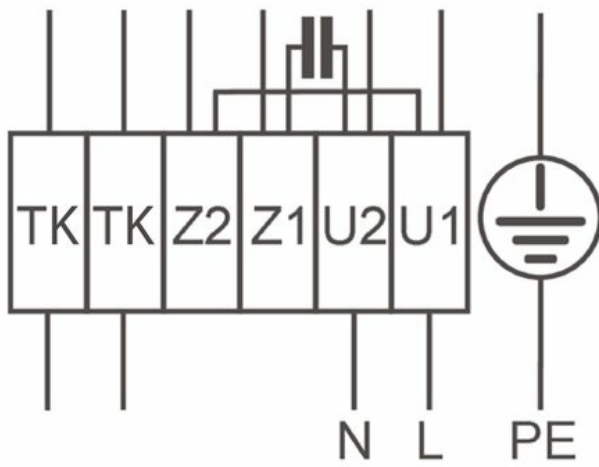
## Dimension



	A	ØDi	ØDa	ØTK	z x Ød
AR 710 sileo	260	711	800	770	16 x Ø11.5

## Wiring

Linkslauf  
Counter Clockwise rotation  
Rotation á gauche



## Ecodesign

Ecodesign 327	
Manufacturer	Systemair GmbH, Seehöfer Str. 45, DE-97944 Boxberg, Amtsgericht (court of registration) Mannheim, HRB 560437
Type	AR 710E6
Year of manufacture	See name plate of the fan
Air flow qv	2.4539 m <sup>3</sup> /s
Efficiency category	static
Efficiency grade N	42
Efficiency grade target N	40
Speed (rpm) n	881 r.p.m.
Pressure increase total psf	117 Pa
Power consumption Ped	840 W
Overall efficiency	35.2 %
Variable speed drive	No
Additional components	Components used to calculate the energy efficiency that are not apparent from the measurement category are detailed in the CE declaration.
Maintenance	Information on installation, operation and maintenance is provided in the operating instructions.
Recycling / disposal	Information on recycling and disposal is provided in the operating instructions.

## Accessories

- EV-AR/AXC 710 flex.conn. 70°C (8359)
- MFA-AXC/AM 710 mounting foot (311290)
- REV-5POL/05 ON/OFF (33979)
- S-ET 10 Motor Protection (5154)
- SG AXC/AM/AR 710 guard grill (310692)
- GFL-AR/AXC 710 counter flange (8383)
- REU 5 Speed control (5006)
- RTRE 5 Speed control (5010)
- S-ET 10 Motor Protection (161199)
- STL 5 Speed controller (84271)

## Documents

- L-BAL-001-SYSTEMAIR.PDF
- EU\_DECLARATION\_OF\_CONFORMITY\_AXIAL\_FANS\_EN\_003.PDF

## Specification

The box is made up of electroplated steel- plate witch is powder coated. A protection guard is included. The fan can be installed in each fitting position. The axial impeller with airfoil made out of electroplated steel plate is coated black. The actuation is carried out by a maintenance- free, speed- controlled external rotor motor. The fan is speed- controllable by a thyristor or a transformer alternatively at a 400V- Construction a 2- stepped operation trough a D/Y- Connection is also possible. For protecting the motor integrated thermostat relays with completed lines to a motor protection device are built in. For annealing the motor is situated in the air flow. Impeller according to VDI 2060, quality category Q6,3 and dynamically weigh heavy in to levels.