

AR 500E4 SILEO AXIAL FAN

Item no. 37387

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Description

- speed controllable by voltage reduction
- inlet protection guard
- 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 is completely painted in black (RAL9005). 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.



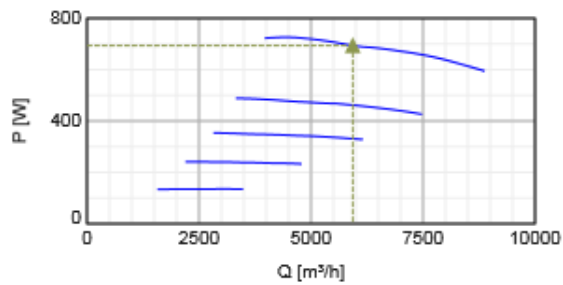
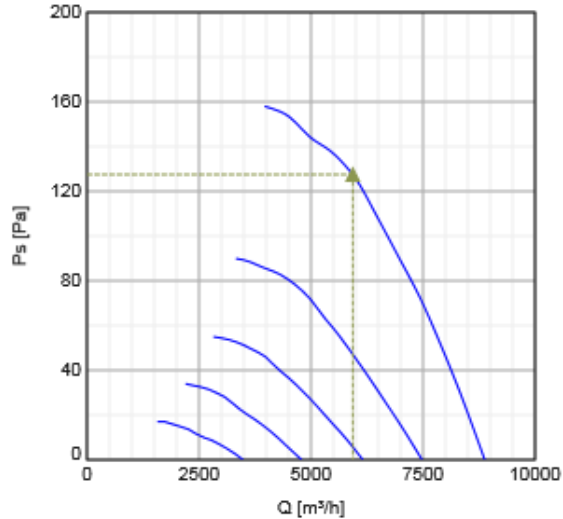
Technical parameters

Nominal data		
Voltage	230	V
Frequency	50	Hz
Phase	1	~
Motor circuit connection	D	
Input power (P1)	727	W
Current	3,2	A
Max. airflow	8878	m ³ /h
Fan impeller speed	1237	r.p.m.
Capacitor	16	μF
Weight	18,6	kg
Temperature data		
Max. temperature of transported air	70	°C
Max. temperature of transported air when voltage-controlled	70	°C
Sound data		
Sound pressure level at 1 m	66	dB(A)
Protection / Classification		
Insulation class	F	
Enclosure class, motor	IP54	IP
Data according to ErP directive		
Efficiency, static	32,9	η _{statA}

Air flow at max efficiency	5735	m ³ /h
Efficiency grade	40,3	Nactual
Target efficiency grade ErP2013	36	Ntarget2013
Target efficiency grade ErP2015	40	Ntarget2015
Measurement category	A	
Specific ratio	1	

Performance

Diagrams



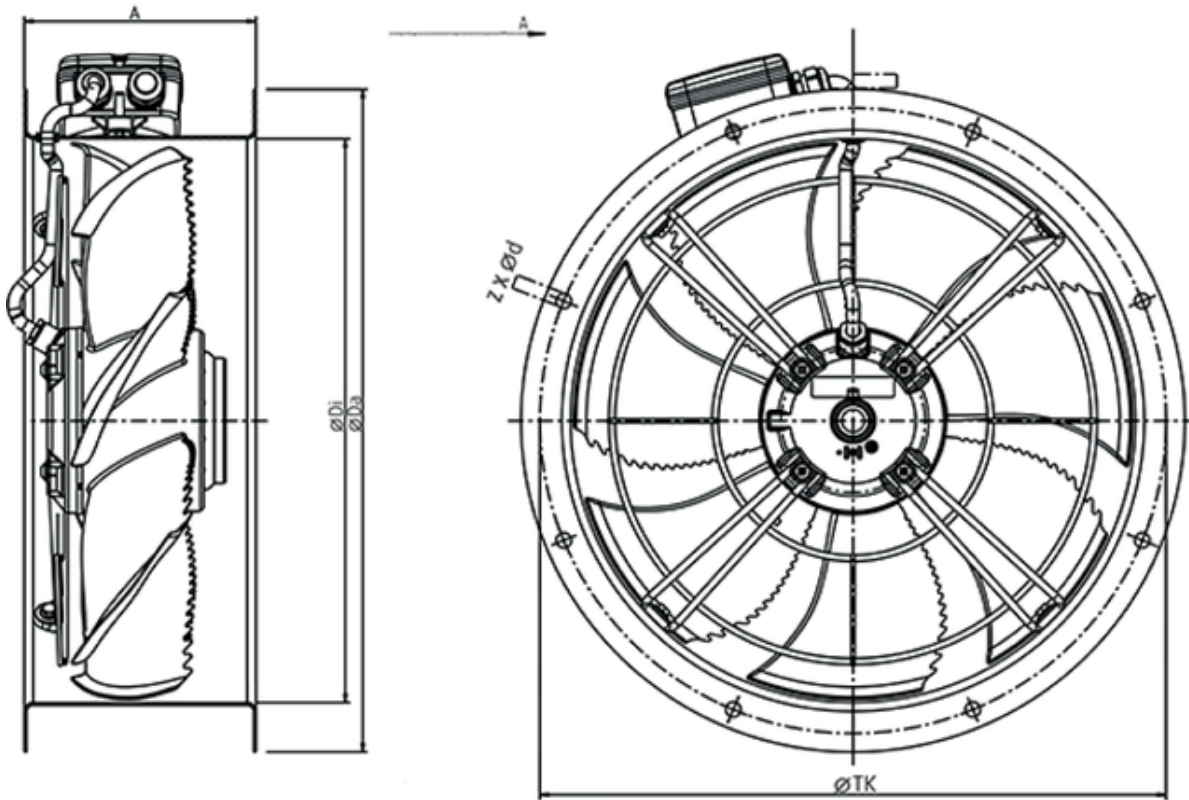
Hydraulic data

	Working point						
	Q [m ³ /h]	Ps [Pa]	P [W]	n [r.p.m.]	I [A]	SFP [kW/(m ³ /s)]	U [V]
Max efficiency	▲ 5929	▲ 127	▲ 694	1257	3,06	0,422	230

Acoustic data

Sound power level	63	125	250	500	1k	2k	4k	8k	Tot
Inlet									
Outlet									

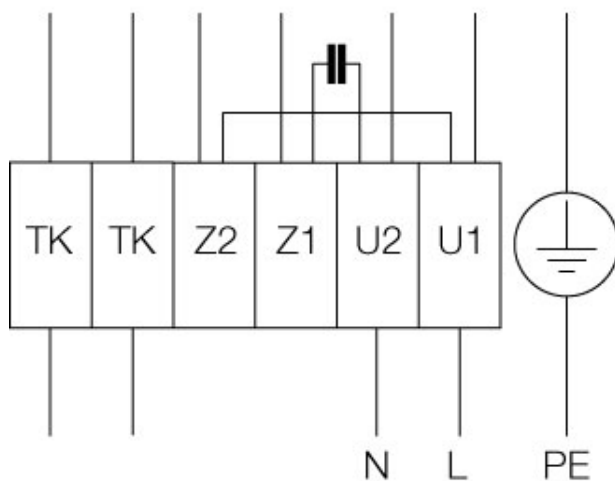
Dimensions



	A	ØDi	ØDa	ØTK	z x Ød
AR 500 sileo	205	503	590	560	12 x Ø12

Wiring

Linkslauf
Counter Clockwise rotation
Rotation à gauche



Accessories

Electric accessories


- REV-5POL/05 ON/OFF (33979)
- RTRE 5 Speed control (5010)
- REE 4 Speed control (5317)
- S-ET 10 Motor Protection (5154)

REU 5 Speed control (5006)

Accessories

MFA-AXC/AM 500 mounting foot (311287)
GFL-AR/AXC 500 counter flange (8380)
EV-AR/AXC 500 flex.conn. 70°C (8356)

Documentation

 L-BAL-001-Systemair.pdf (210,31kB)

 ec-dec_axial_160414_DE,GB_003_ab 20. April.pdf (557,42kB)

Specification text

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 of aluminum and 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