

AW 450E4 SILEO AXIAL FAN

Item no. 37411

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Description

- speed controllable by voltage reduction, plus option of 2-step operation by D/Y switching for 400V versions
- inlet protection guard
- safe and maintenance free operation
- can be installed in any mounting position
- electric connection via terminal box mounted on the motor
- single phase fans are supplied with capacitor

Axial fans of the AW sileo range do have a bionic shape of the fan blade, and are driven by external rotor motors. The AW range is equipped with a square wall plate, galvanized steel and powder coated in black (RAL9005). The protection guard at the inlet side is powder coated in black. The axial impeller is manufactured from pressure die cast aluminum and also painted in black (RAL9005). 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.



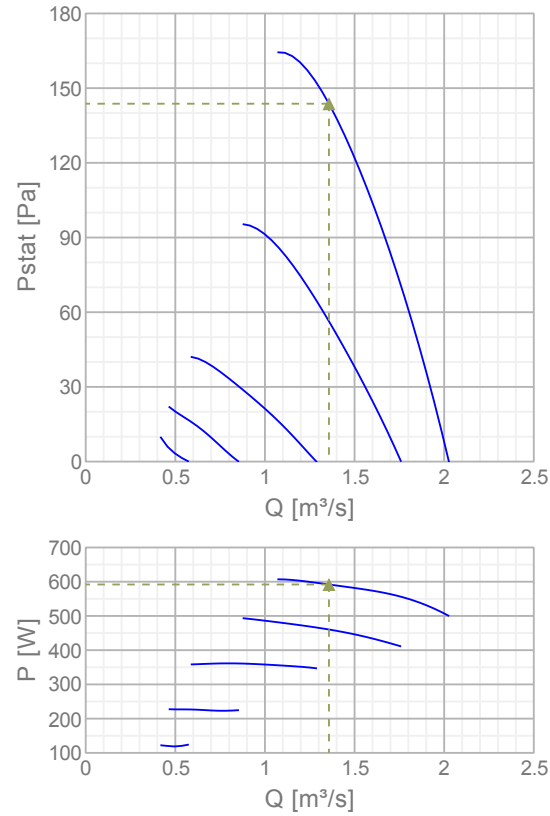
Technical parameters

Nominal data		
Voltage	230	V
Frequency	50	Hz
Phase	1	~
Connection	D	
Input power (P1)	607	W
Current	2.88	A
Max. airflow	2.03	m³/s
R.p.m.	1393	r.p.m.
Capacitor	14	µF
Weight	16.2	kg
Temperature data		
Max. temperature of transported air	70	°C
Max. temperature of transported air when speed-controlled	70	°C
Sound data		
Sound pressure level at 1 m	67	dB(A)
Protection / Classification		
Insulation class	F	
Enclosure class, motor	IP54	IP

Data according to ErP directive		
Efficiency, static	34	η_{statA}
Air flow at max efficiency	1.39	m³/s
Efficiency grade	41.8	Nactual
Target efficiency grade ErP2013	36	Ntarget2013
Target efficiency grade ErP2015	40	Ntarget2015
Measurement category	A	
Specific ratio	1	

Diagrams

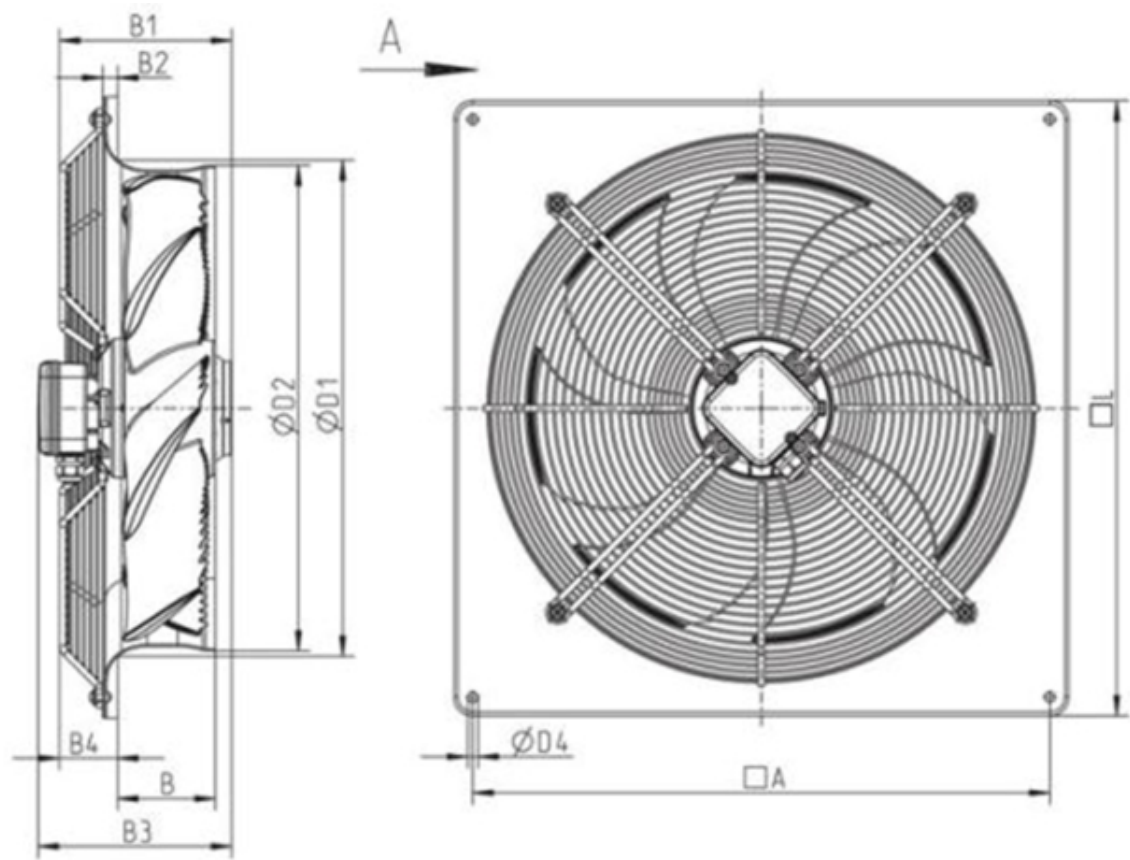
Diagrams



Max efficiency

Hydraulic data										
▲ Working air flow		1.36 m³/s								
▲ Working static pressure		144 Pa								
▲ Power		592 W								
Speed		1398 r.p.m.								
Current		2.82 A								
SFP		0.436 W/(l/s)								
Voltage		230 V								
Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	20	42	53	64	68	68	65	58	73
Outlet	dB(A)	20	42	53	65	68	68	65	60	73

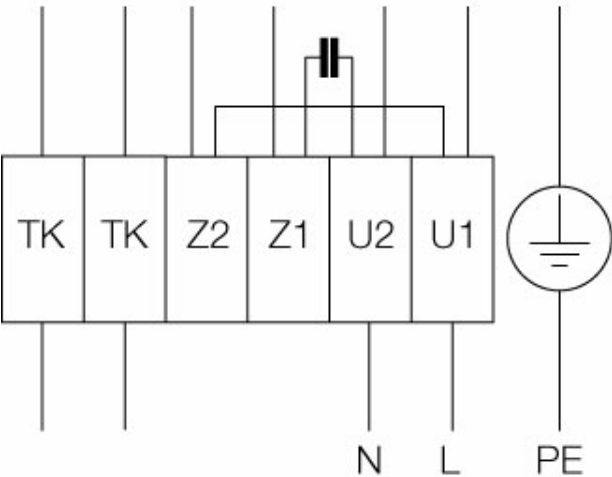
Dimensions



	□A	B	B1	B2	B3	B4	ØD1	ØD2	ØD4	□L
AW 450	535	96	190	14	226	47	480	463	11	575

Wiring

Linkslauf
Counter Clockwise rotation
Rotation à gauche



Accessories

Electric accessories

[REU 5 Speed control \(5006\)](#)

[RTRE 5 Speed control \(5010\)](#)

[REE 4 Speed control \(5317\)](#)

[S-ET 10 Motor Protection \(5154\)](#)

[STL 5 Speed controller \(84271\)](#)

[REV-5POL/05 ON/OFF \(33979\)](#)

Accessories

[RAW 400/450 Roof Cowl c/w BG \(86511\)](#)

[SG AW-D BGr 045/042, RAL 9005 \(30602\)](#)

Documentation



[L-BAL-001-Systemair.pdf \(210,31kB\)](#)



[ec-dec_axial_160414_DE,GB_003_ab 20. April.pdf \(557,42kB\)](#)

Specification text

Axial fans of the AW sileo range do have a bionic shape of the fan blade, and are driven by external rotor motors. The AW range is equipped with a square wall plate, galvanized steel and powder coated in black (RAL9005). The protection guard at the inlet side is powder coated in black. The axial impeller is manufactured from pressure die cast aluminum and is powder coated 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.