

Systemair AAW

Plate axial fan

50Hz



Systemair Sdn Bhd certifies that the AAW Plate Axial Fan shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Plate axial fan

AAW



- Square plate for wall mounting
- Protection guard on the inlet
- External rotor motor

The fan casing, protection guard and impeller are manufactured from galvanized steel, painted in standard black. The fans have sickle blade impellers.

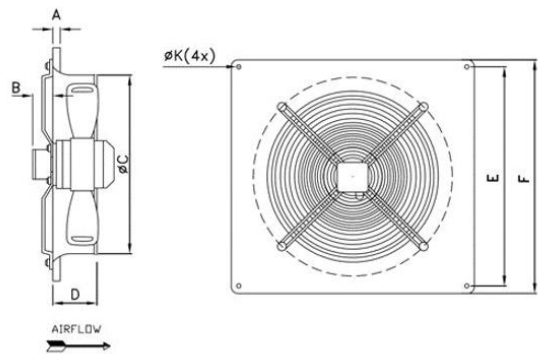
Technical data

AAW		AAW 300-E4	AAW 350-E4	AAW 400-E4	AAW 450-E4	AAW 500-E4
Voltage / Frequency	V/50Hz	230~	230~	230~	230~	230~
Maximum Motor Input Watts	W	122	270	359	546	620
Current	A	0.38	0.68	0.81	1.15	1.85
Maximum air flow	m³/h	1987	2926	3618	4547	6725
R.p.m.	min ⁻¹	1370	1370	1350	1380	1320
Maximum temperature of transported air	° C	65	65	65	55	50
Sound pressure level at 3m*	dB(A)	55	62	67	71	72
Weight	kg	5.3	7.3	9.3	17.0	19.0
Enclosure class, motor	IP	54	54	54	54	54
Capacitor	µF	3	4	6	8	12

* LwA:7 dB(A) ≈ LpA · 20 m2 Sabine at 3 meter distance to the fan.
(LwA = Sound power level, LpA = Sound pressure level)

* Conversion from dB(A) to Sound pressure level at a distance on next page.

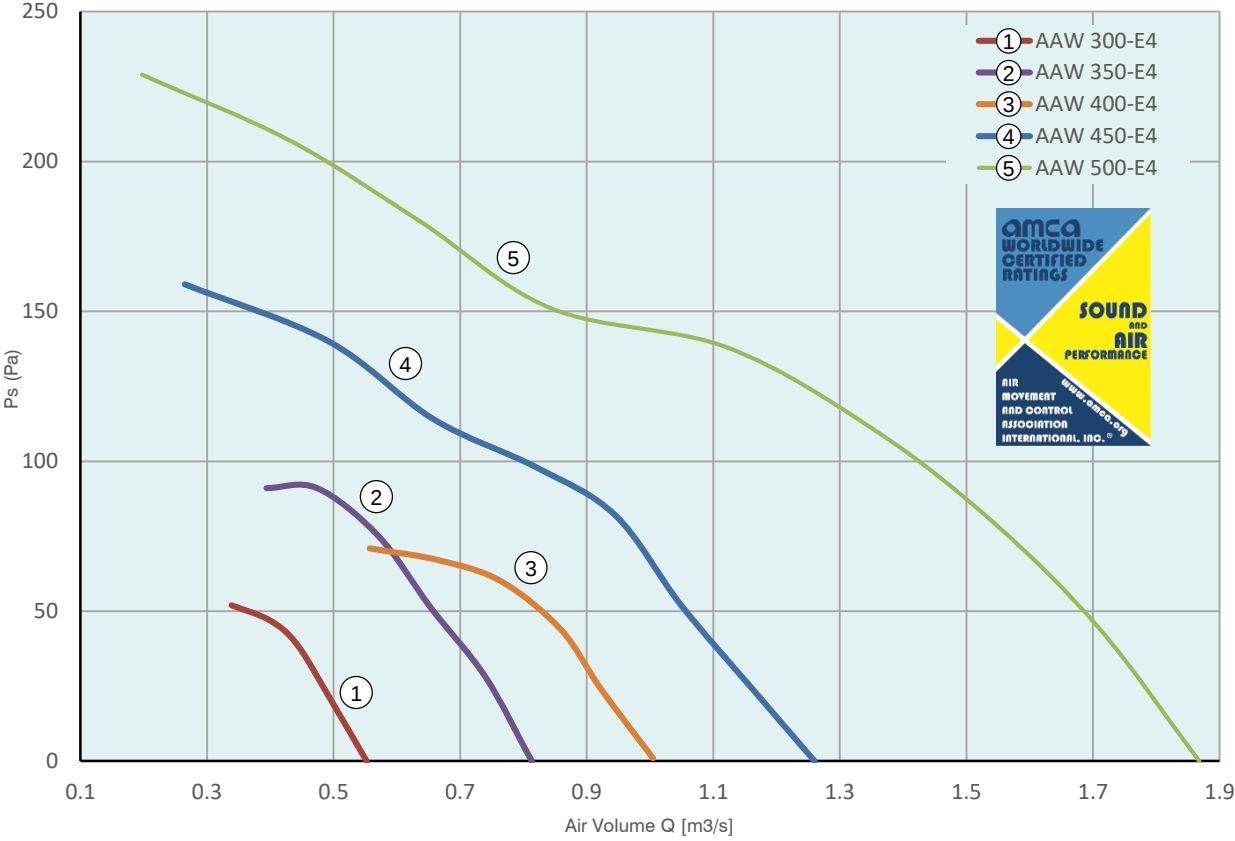
- Performance certified is for installation type A Free inlet, Free outlet.
- Performance ratings do not include the effects of appurtenances (accessories).
- Speed (RPM) shown is nominal. Performance is based on actual speed of test.
- Sound pressure level at 3m are not licensed by AMCA International.



Dimensions

In metric

AAW	A	B	ØC	D	E	F	ØK
AAW 300-E4	10	63	318	80	380	430	9
AAW 350-E4	10	62	362	96	435	485	9
AAW 400-E4	12	56	413	115	490	540	9
AAW 450-E4	12	60	462	123	535	575	11
AAW 500-E4	14	70	514	120	615	655	11



*Performance certified is for installation type A : Free inlet, Free outlet.
*Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown is nominal. Performance is based on actual speed of test.

									Sound power level (AMCA)	Sound pressure level @ 3 meter
Following is the outlet Lwo sound power levels (dB) in eight octave bands at maximum airflow (0Pa)										
Model	63	125	250	500	1k	2k	4k	8k	L _w A	dB(A)
AAW 300-E4	60	65	63	60	58	60	59	54	66	55
AAW 350-E4	61	83	66	67	64	62	58	50	71	62
AAW 400-E4	73	72	72	68	66	64	61	51	72	67
AAW 450-E4	78	75	74	71	69	66	62	55	74	71
AAW 500-E4	67	79	79	74	74	71	70	64	79	72

• The sound power level ratings shown are in decibels, referred to 10 – 12 watts, calculated per AMCA International Standard 301. Values shown are for outlet Lwo and outlet LwoA sound power levels for installation type A : Free inlet, Free outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Sound pressure level at 3 meter are not licensed by AMCA International.

Conversion from dB(A) to Sound pressure level at a distance :-

$$L_p = L_w - 20 \log d + 11$$

where

- d = distance from acoustic center of source to distant point, m
- L_p = sound pressure level at distance d from sound source, dB
- L_w = sound power level of sound source, dB



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