

ACi4400 series

GreenTech EC compact fans Ø 119 mm x 38 mm

ebmpapst

The engineer's choice



Design Highlights:

- Very efficient EC motor with integrated electronics
- AC-line operated, speed is frequency independent
- Global voltage range version available (100-240V)
- Encapsulated versions certified for use with flammable refrigerants

Advantages vs Equivalent AC fan:

- 75% less power consumption
- Reduction in noise of 3dB or more
- Extended service life
- Constant performance over the full voltage range

General Characteristics:

- Air exhaust over struts, CW rotation looking at impeller
- Electrical connection via 2 flat pins, 2.8mm x 0.5mm (0.11" x .02")
- Reinforced composite; impeller PA, housing PBT, non-conductive & non-flammable
- Electronic locked rotor protection
- Ball bearings; shielded & lubricated for life
- Protection level IP20

Options:

- Flying leads
- Protection from humidity, splash water or salt fog
- Protection level up to IP65 (jacketed cable standard)
- Speed control and tach output



IP20 protection (standard) - for indoor (clean/dry) applications where no additional protection for motor (electronics or windings) is required.



"U" version (optional) IP65 ingress protection rating with VDE certificate (full encapsulation of winding and PCB)

Comparison to ebm-papst AC fan (P/N 4606Z)

		ACi4410HH	4606Z*
Size	(mm)	119x119x38	119x119x38
Voltage Range	(VAC)	85-132	103.5-122
Nominal Speed	(rpm)	3300	3100
Flow @ 0°SP	(CFM)	103	105.9
Power @ 0° SP	(watts)	4.4	18
Ambient Temp Range	(°C)	-40 to +75	-40 to +85
Service Life L10 @ 40°C	(hours)	65,000	40,000
Sound Pressure	dB(A)	42	45
Sound Power	Bel(A)	5.3	5.6
Weight	lbs	0.55	1.19

*Other ebm-papst AC fan models

1. P/N 4606N has the same free air flow and mounting but opposite airflow direction.
2. P/N 4606X is the same as 4606N but with 3.7mm (0.146") diameter mounting holes.

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Series ACi 4400															
Nominal data	Air flow		Nominal voltage	Frequency	Voltage range	Sound pressure level	Sound power level	Sinter sleeve bearings Ball bearings	Power consumption	Nominal speed	Temperature range	Service life L ₁₀ (40 °C) ebm-papst standard	Service life L ₁₀ (T _{max}) ebm-papst standard	Life expectancy L ₁₀ IPC (40 °C), see page 17	Curve
	m ³ /h	cfm													
ACi 4420 ML	100	59	230	50 / 60	195...265	25	4.1	■	1.7	1 850	-40...+75	65 000 / 25 000	110 000	①	
ACi 4420 N	147	86	230	50 / 60	195...265	36	4.9	■	2.8	2 700	-40...+75	65 000 / 25 000	110 000	②	
ACi 4420 H	160	94	230	50 / 60	195...265	39	5.1	■	3.2	3 000	-40...+75	65 000 / 25 000	110 000	③	
ACi 4420 HH	175	103	230	50 / 60	195...265	42	5.3	■	4.6	3 300	-40...+75	65 000 / 25 000	110 000	④	
ACi 4410 HH	175	103	115	50 / 60	85...132	42	5.3	■	4.4	3 300	-40...+75	65 000 / 25 000	110 000	④	
ACi 4400 HH	175	103	115	50 / 60	100...240	42	5.3	■	4.4	3 300	-40...+75	65 000 / 25 000	110 000	④	
ACi 4400 HHAU*	175	103	115	50 / 60	100...240	42	5.3	■	4.4	3 300	-40...+75	65 000 / 25 000	110 000	④	
ACi 4400 HH/2HHP**	175	103	115	50 / 60	100...240	42	5.3	■	4.4	3 300	-40...+75	65 000 / 25 000	110 000	④	

Subject to change

* analog (5-10 VDC) speed control input

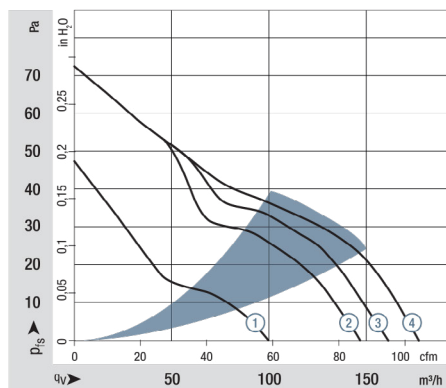
** PWM speed control input and tach

Safety compliance:

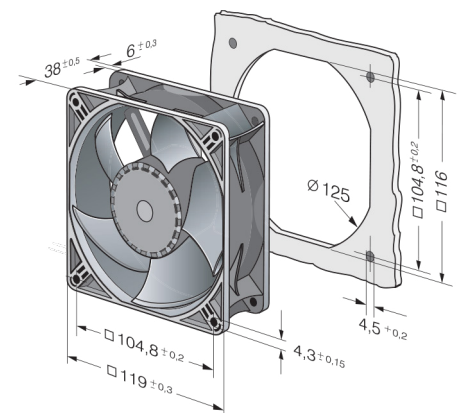
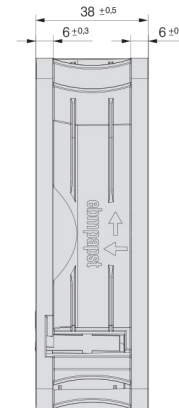
- CSA International File LR27697
Certificate #2335559
CSA STD C22.2 No. 113-12
Label marking



- UL File GPWV2.E38324
Fan Recognized per UL507
Converter Recognized per UL508C
Motor Recognized per UL 1004-7



Air performance measured according to: ISO 5801.
Installation category A, without contact protection.
Noise: Total sound power level L_{WA} ISO 103002
measured on a hemisphere with a radius of 2 m.
Sound pressure level L_{pA} measured at 1 m distance
from fan axis.
The values given are applicable only under the specified
measuring conditions and may differ depending on the
installation conditions.
In the event of deviation from the standard configuration,
the parameters must be checked after installation!
For detailed information see
http://www.ebmpapst.com/general_conditions



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