

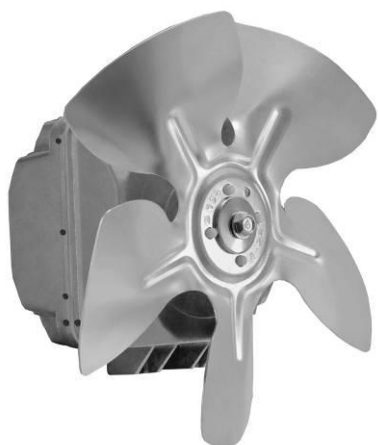
ebm-papst FAN MOTORS

ebmpapst

ebm-papst is the world's leading manufacturer of fans and motors and is a pioneer and pacesetter for ultra-efficient EC technology.

ACi4420HHR

- Drop in replacement for 120mm square shaded pole compact fans
- 13% more airflow than existing models
- 77% less input power than existing models
- Double the life time in comparison to existing AC models



iQ3612 / iQ3620

- Drop in replacement for typical refrigeration shaded pole motors
- Input power savings of 65-90% across the range
- High level of protection against moisture entry
- iQ3612 and iQ3620 replace existing 5W – 25W motors

Energy Saving Motors (ESM)

- Diameters 200mm, 230mm and 250mm readily available
- 2-speed programmable or reverse on demand models
- Hand-held programming device available




EC Axial Fans

- Fixed 2-speed or 0-10V speed control versions available.
- High efficiency motors with axial impellers in standard diameters (300mm, 350mm, 500mm, 630mm, 800mm)
- Simple control systems available for 0-10V speed control
Potentiometer
Temperature sensors
Head pressure sensors
- Match existing guard grille and mounting plate dimension

ebm-papst FAN MOTORS

AC Voltage Compact Axial Motor Assembly

Airefrig Part Number	Case Style	A	B	C	D	Air Flow	Volts	Air Vol m ³ /hr	RPM	Input watts	dB(A) @ 1m	Min Air Temp	Max Air Temp	List Price Excl. GST
8556N	Y	80	38	72	3	V	230	50	2800	12.0	31	-40°C	+90°C	\$109.81
3656	Y	92	38	83	4	V	230	75	2700	12.0	37	-40°C	+75°C	\$114.20
3956	Y	92	25	83	4	V	230	59	2650	11.0	35	-40°C	+80°C	\$78.90
ACI4420HHR 	Y	119	38	105	6	V	195 to 265	180	3350	4.4	42	-20°C	+75°C	\$107.10
4606Z855	Y	119	38	105	6	V	115	180	3100	18.0	45	-40°C	+85°C	P.O.A.
4656N	Y	119	38	105	6	A	230	160	2650	19.0	47	-40°C	+85°C	P.O.A.
4656Z	Y	119	38	105	6	V	230	160	2650	19.0	40	-40°C	+75°C	P.O.A.
9956	Y	119	25	105	4	V	230	117	2450	14.0	37	-40°C	+70°C	\$123.78
5958	Y	127	38	113	7	V	230	180	2750	18.0	44	-30°C	+60°C	\$116.92
W2S130AA0363	X	150	55	162	6	V	230	325	2800	45	49	-25°C	+50°C	\$247.95
W2S142BB0101	Z	150	38	162	4	V	230	330	2800	25	52	-25°C	+55°C	P.O.A.
W2E200HH3801	Y	225	80	240	5	V	230	925	2550	64	59	-25°C	+60°C	P.O.A.

DC Voltage Compact Axial Motor Assembly

Airefrig Part Number	Case Style	A	B	C	D	Air Flow	Volts	Air Vol m ³ /hr	RPM	Input watts	dB(A) @ 1m	Min Air Temp	Max Air Temp	List Price Excl GST
8314	Y	80	32	72	4	V	24 DC	54	3300	2.7	36	-20°C	+75°C	\$94.83
4314	Y	119	32	105	4	V	24 DC	170	2800	5.0	45	-20°C	+75°C	\$127.44
4184NX	Y	119	38	105	4	V	24 DC	180	3200	4.5	49	-30°C	+75°C	\$146.19
6224N	Z	173	51	162	4	V	24 DC	410	3400	18.0	55	-20°C	+72°C	P.O.A.
7214N	X	150	55	162	4	V	24 DC	360	3050	12.0	53	-25°C	+72°C	P.O.A.

Compact Axial Motor Assembly Accessories

Airefrig Part Number	Description	List Price Excl GST
LZ126	1000mm fly lead to suit ACi4420HHR, 4650Z, 4656N, 4656Z, 5958, 9956 compact fans	\$10.85
LZ232	92 x 92mm plastic finger guard to suit series 3000 compact fans	P.O.A.
LZ305	119 x 119mm plastic finger guard to suit series 4000 and 9000 compact fans	\$12.75
LZ3014	119 x 119mm steel finger guard to suit series 4000 and 9000 compact fans	P.O.A.



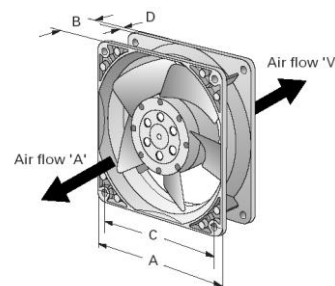
X



Y



Z



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ebm-papst FAN MOTORS

iQ motors 230V – High Efficiency

Airefrig Part Number	Watt Output	Maximum Size Fan Blade	Universal Mounts	Rotation	List Price Excl. GST	
IQ3612	5-16	Ø 254mm x 28°	Bolts 2 @ 25mm Crs Bolts 2 @ 18mm Crs & Rear Threaded Holes 4 Holes @ 67.0 pcd 3 Holes @ 71.4 pcd	ACW	\$126.37	
IQ3620	16-34	Ø 300mm x 22°		ACW	\$163.50	
Q motors 230V						
M4Q045BD0138 *	5	Ø 200mm x 28°		ACW	\$66.06	
M4Q045CA0375B01	10	Ø 254mm x 22°		ACW	\$79.69	
M4Q045CF0175B01	16	Ø 254mm x 28°		ACW	\$89.34	
M4Q045DA0575B01	23	Ø 300mm x 22°	ACW	\$99.42		
M4Q045EF0175B01	34	Ø 300mm x 34°	ACW	\$141.24		
M4Q045CA0172LYA	7	L/Temp c/w short lead & 3 pin plug - supermarkets	ACW	\$146.04		
M4Q045CA0172XX	7	L/Temp - moisture resist, long lead - supermarkets	ACW	\$158.20		
M4Q045EA1115	24	Twin Hub Mount Shafts & 4 Mount Brackets	ACW	\$139.90		



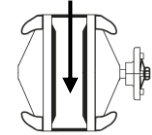
M4Q045EA1115

* Note: not available with Bolts 2 @ 18mm Crs.

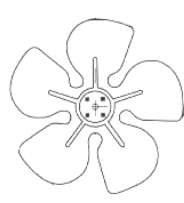
Fan Blades - Pressed Aluminium 4 Point Hub

Airefrig Part Number	List Price Excl. GST	Airefrig Part Number	List Price Excl. GST	Fan Blade Info		Suit Q & IQ Fan Motors								
"V flow" Fan Blade		"A flow" Fan Blade		Dia. (mm)	Pitch	IQ3612 5-16 watt	IQ3620 16-34 watt	5 watt	7 watt	10 watt	16 watt	23 watt	34 watt	
7380123634	P.O.A.	7376123634	P.O.A.	154	22°	✓		✓						
7380223634		7376223634		154	28°	✓		✓						
7380323634		7376323634		154	34°	✓		✓						
7380423634		7376423634		172	22°	✓		✓						
7380523634		7376523634		172	28°	✓		✓						
7380623634		7376623634		172	34°	✓		✓						
7380723634		7376723634		200	22°	✓		✓	✓					
7380823634		7376823634		200	28°	✓			✓					
7380923634		7376923634		200	34°	✓			✓					
7381023634		7377023634		230	22°	✓			✓	✓				
7381123634		7377123634		230	28°	✓				✓				
7381223634		7377223634		230	34°	✓				✓				
7381323634		7377323634		254	22°	✓	✓			✓	✓			
7381423634		7377423634		254	28°	✓	✓				✓			
7381523634		7377523634		254	34°		✓							
7381623634		7377623634		300	22°		✓						✓	✓
7381723634		7377723634		300	28°								✓	✓
7381823634		7377823634		300	34°									✓

ACW Motor Direction

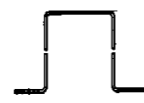


V ← Airflow → A



Mounting Brackets & Wall Rings

Airefrig Part Number	Description	List Price Excl. GST
7188124053	Mount Bracket	154mm Max Diameter Fan Blade
7188224053		172mm Max Diameter Fan Blade
7188324053		200mm Max Diameter Fan Blade
7188424053		254mm Max Diameter Fan Blade
5116624037	Wall ring to suit 'Q' Motors	'V' Flow Ø 300mm 22 Deg (Max fan)
5117424037		'A' Flow Ø 230mm 28 Deg (Max fan)
5254224037		'V' Flow Ø 154mm 34 Deg (Max fan)
5254424037		'V' Flow Ø 200mm 34 Deg (Max fan)
5254624037		'V' Flow Ø 254mm 28 Deg (Max fan)








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ebm-papst FAN MOTORS

Energy Saving Motor (ESM) Axial Fans

Airefrig Part Number	*Notes	Dia. mm	Air Flow	Volts V	Phase	Speed Step	RPM	Air Volume m³/hr	Input Watts	Amps	List Price Excl GST
W1G200EC9110 	a & b	200	V	230	1	High	2100	750	31	0.24	\$202.05
						Low	1500	525	16	0.13	
W1G200EC9145 	a	200	V	230	1	High	2100	750	31	0.24	\$202.05
						Low	1500	525	16	0.13	
W1G200EC9107 	c	200	V/A	230	1	Forward	2200	760	30	0.24	\$210.00
						Reverse	2200	330	23	0.17	
W1G230EB9105 	b, c & d	230	V/A	230	1	Forward	1600	1030	30	0.24	\$285.75
						Reverse	1300	340	11	0.09	
W1G250BB1701 	b	230	V	230	1	High	1700	1065	32	0.24	P.O.A.
						Low	1200	765	17	0.14	

***Notes:**

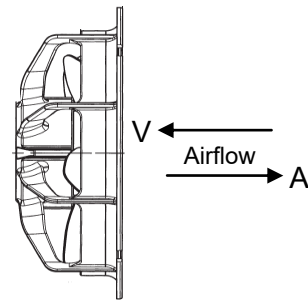
- a) High and low speeds are programmable using CBC000AF0801 programming unit
- b) Fan ring is truncated
- c) Fan can operate in forward and reverse direction at single speed
- d) Lead not included




Truncated fan ring



Standard fan ring



ESM Fan Programmer

Airefrig Part Number	Description	List Price Ex GST
CBC000AF0801 	Handheld Programmer for ESM 2 Speed Fans	\$1350.00

Handheld Programming Unit

For energy-saving motors (ESM)

- Makes quick work of programming the two ESM selectable operating speeds.
- Eliminates the need for a personal computer, software, power adapter and 2nd cable.
- User Friendly navigation menu.
- Good for production line or field service use.
- Automatic shut-off function for an extended battery life.
- Mini-USB connector for uploading software upgrades.
- Batteries, programming cable and operating manual included.

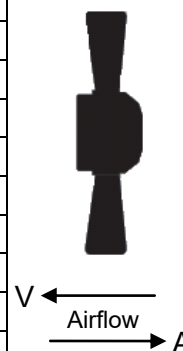


ebm-papst FAN MOTORS



Axial Fan Motor Assembly

Airefrig Part Number	Dia. mm	Air Flow	Volts	Phase	Air Volume m³/hr	RPM	Input Watts	Amps	Cap µ/F	List Price Excl GST
A2E200AI3801	200	A	230	1	915	2600	64	0.30	1.5	\$333.58
A2E200AK3801	200	V	230	1	1060	2670	60	0.30	1.5	P.O.A.
A2E250AE6502	250	A	230	1	1610	2550	115	0.51	4.0	\$365.99
A2E250AL0601	250	V	230	1	1820	2450	115	0.51	3.0	\$337.76
A4S250AH0201	250	V	230	1	1000	1390	69	0.53	-	\$199.95
A4E300AB0322	300	V	230	1	1510	1250	75	0.32	1.5	\$283.46
A4E300AA0341	300	V	230	1	1690	1350	95	0.44	2.0	\$349.87
A4E350AA1032	350	V	230	1	2940	1400	130	0.55	4.0	\$506.00
A6E450AN0811	450	V	230	1	4415	900	145	0.64	4.0	\$491.01
A6E450AQ0511	450	V	230	1	4400	830	170	0.78	4.0	\$644.10

NOTE: More options available on request

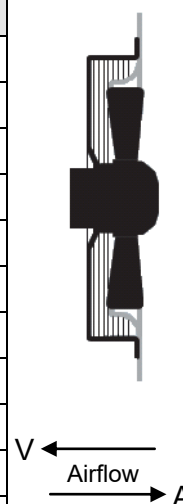


Grille Axial Fan Assembly

Airefrig Part Number	Dia. mm	Air Flow	Volts	Phase	Air Volume m³/hr	RPM	Input Watts	Amps	Cap µ/F	List Price Excl GST
S4E300AB0343	300	A	230	1	1610	1250	75	0.32	1.5	\$353.03
S4E300AR2638	300	V	230	1	1935	1380	70	0.32	2.0	\$330.00
S3G300AK1358 * 	300	V	200-240	1	1975	1360	60	0.53	-	P.O.A.
S4E300AS7244	300	V	230	1	1800	1320	72	0.32	2.0	\$353.79
S4E350AN0248	350	V	230	1	3305	1340	165	0.73	4.0	\$424.41
S4E350AN0260	350	V	230	1	3305	1340	165	0.73	4.0	\$424.41
S4E400AP0244	400	V	230	1	4235	1430	160	0.73	6.0	\$535.50
S4E450AU0337	450	V	230	1	5700	1300	350	1.55	8.0	\$645.37
S3G500AM5623 * 	500	V	200-277	1	9055	1420	750	3.40	-	\$1692.57
S4E500AM0301	500	V	230	1	8950	1300	680	3.00	12.0	\$900.90
S6E630AN0101	630	V	230	1	11020	860	600	2.62	14.0	\$1,052.10

NOTE: More options available on request

* ebm-papst HyBlade axial fan with speed controllable, high efficiency EC motor



Axial Fans - Round and Square Plate

Airefrig Part Number	Dia. mm	Air Flow	Volts	Phase	Air Volume m³/hr	Speed (RPM)	Input Watts	Amps	Cap µ/F	List Price Excl GST
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Round Plate

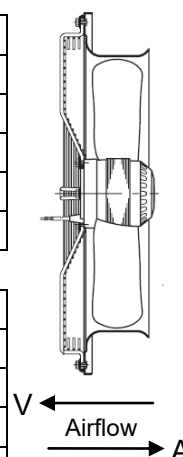
W2E200CI3801	200	A	230	1	915	2600	64	0.30	1.5	P.O.A.
W2E200CH3801	200	V	230	1	1060	2670	60	0.30	1.5	P.O.A.
W2E250CE6502	250	A	230	1	1610	2550	115	0.51	4.0	P.O.A.
W2E250CL0601	250	V	230	1	1820	2450	115	0.51	3.0	\$415.44
W2E300CC4702	300	A	230	1	2440	2650	140	0.62	5.0	\$622.18
W4E300CB0323	300	A	230	1	1510	1250	75	0.32	1.5	P.O.A.

Square Plate

W2E200DI3801	200	A	230	1	915	2600	64	0.30	1.5	P.O.A.
W2E200DH3801	200	V	230	1	1060	2670	60	0.30	1.5	P.O.A.
W2E250DE6502	250	A	230	1	1610	2550	115	0.51	4.0	P.O.A.
W2E300DC4702	300	A	230	1	2440	2650	140	0.62	5.0	P.O.A.
W4E300CB0323	300	A	230	1	1510	1250	75	0.32	1.5	P.O.A.





NOTE: See next page for more square plate options

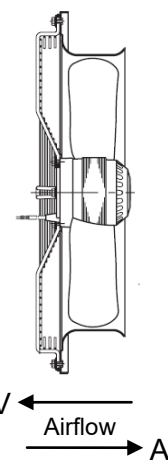
re models available on request



ebm-papst FAN MOTORS

Square Plate Axial Fan Assembly (cont'd)

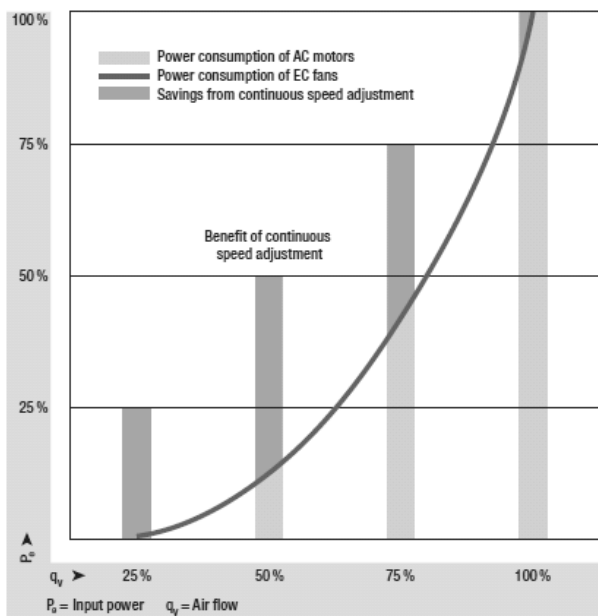
Airefrig Part Number	Dia. mm	Air Flow	Phase	Volts / Wiring	Air Volume m³/hr	Speed (RPM)	Input Watts	Amps	List Price Excl GST	
W3G500GN3307 * 	500	V	3	380-480	10390	1600	980	1.60	P.O.A.	
W4D500GJ0311	500	V	3	400	Δ	9030	1340	710	1.40	P.O.A.
					Y	7670	1060	480	0.80	
W3G630GU2301 * 	630	V	3	380-480	21190	1510	3200	5.00	P.O.A.	
W4D630GD0101	630	V	3	400	Δ	19890	1320	2630	4.78	P.O.A.
					Y	16680	1050	1750	2.95	
W3G800GU2501 * 	800	V	3	380-480	26600	1020	2560	3.90	\$4081.32	
W3G800GV0101 * 	800	V	3	380-480	27930	1090	2980	4.50	\$4563.39	
W6D800GD0101	800	V	3	400	Δ	24110	880	1940	3.90	\$2,353.44
					Y	20430	670	1210	2.23	
W8D800GD0101	800	V	3	400	Δ	18240	660	990	2.37	\$2,310.00
					Y	15300	485	580	1.21	



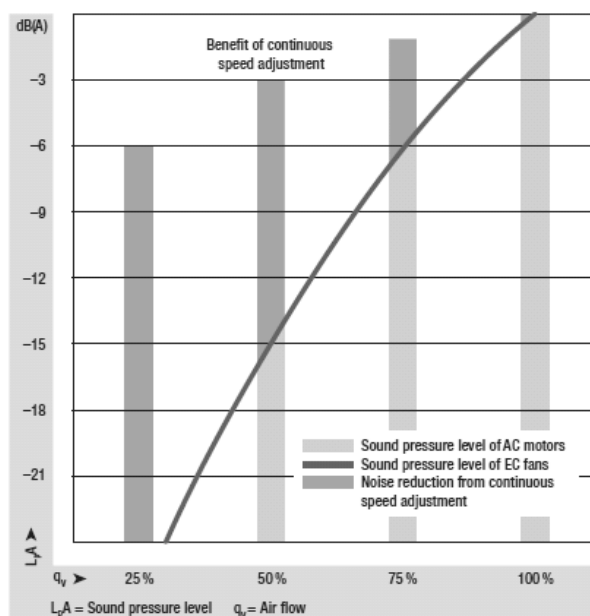
NOTE: More options available on request

* ebm-papst HyBlade axial fan with speed controllable, high efficiency EC motor

ebm-papst EC technology (EC = electronically commutated) is an environmentally sound and, in the long run, more cost-effective alternative to AC technology. ebm-papst EC fans and motors give you high performance, silent speed control and long life expectancy in a product which is the same size as the old, power hungry AC products it replaces.



Low energy consumption: The bars show the power input of fans that are activated incrementally if needed. The air performance is reduced by 50% if 50% of the fans are shut off. The line shows the power input with continuous speed adjustment. If all fans are reduced to 50% of their maximum speeds, the power is reduced by 87.5%



Lower noise: While shutting off half of the fans (one-half of the air flow) decreases the noise level by only about 3dB(A). When reducing the speed of all fans to 50% of the maximum speed, the noise is reduced by 15dB(A).





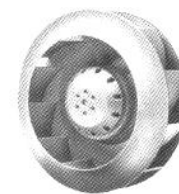
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ebm-papst FAN MOTORS

Backward Curved Radial Fan Assembly

Airefrig Part Number	Dia. mm	Volts	Phase	Air Volume m ³ /hr	Speed (RPM)	Input Watts	Amps	Cap u/F	List Price Excl GST
R2S133AE1705	133	230	1	280	2780	36	0.25	-	\$225.61
R2E180CB2809	180	230	1	440	2550	60	0.27	1.5	\$183.65
R3G190RC0503 * 	190	200-240	1	765	3200	83	0.75	-	\$435.00
R2E190AO2637	190	230	1	570	2450	60	0.36	2.0	\$187.42
R3G220RC0503 * 	220	200-240	1	1000	2580	85	0.70	-	P.O.A.
R2E220AA40G7	220	230	1	865	2600	85	0.38	3.0	\$251.59
R2E225AT5105	225	230	1	850	2650	105	0.46	3.0	\$354.13
R2E225BD9209	225	230	1	1200	2650	135	0.60	4.0	\$416.04
R2E250RA5001	250	230	1	1425	2500	210	0.93	5.0	\$316.92
R2E280AE5205	280	230	1	2110	2700	225	1.00	7.0	\$761.62



'R'

NOTE: More options available on request


* ebm-papst RadiCal backward curved fan with speed controllable, high efficiency EC motor

Forward Curved Radial Fan Assembly

Airefrig Part Number	Dia. mm	Volts	Phase	Air Volume m ³ /hr	Speed (RPM)	Input Watts	Amps	Cap u/F	List Price Excl GST
G2E120CR2603	120	230	1	275	2200	83	0.37	2.0	\$476.36
G2E140A12801	140	230	1	485	2400	160	0.70	4.0	\$1,015.38
G2E160AY4701	160	230	1	600	2100	240	1.05	6.0	\$871.65



Forward Curved Radial Fan Assembly

Airefrig Part Number	Case Style	Volts	Phase	Air Volume m ³ /hr	Speed (RPM)	Input Watts	Amps	Cap u/F	List Price Excl GST
D2E133DM4701	C	230	1	810	1150	190	0.84	3.0	\$451.39
D2E133AM8398	B	230	1	600	1500	185	0.81	3.0	\$402.15
D2E146AP4722	C	230	1	970	2050	300	1.31	8.0	\$539.73
D3G146HQ1334 * 	A	200-240	1	1080	2400	230	1.80	-	P.O.A.
D2E146HT6701	A	230	1	1060	1850	355	1.55	8.0	\$480.52
D2E146HS9704	A	230	1	760	1350	195	0.86	5.0	\$379.86
2195841040	Connector Lead required for D2E fan assemblies 650mm Long								\$54.15



Case A



Case B



Case C

* ebm-papst forward curved fan with speed controllable, high efficiency EC motor

Oven Fan

Airefrig Part Number	Dia. mm	Volts	Phase	Air Volume m ³ /hr	Speed (RPM)	Input Watts	Amps	Max Temp	List Price Excl GST
R2K150AC0325	152	230	1	200	2000	32	0.27	80° C	\$146.19

