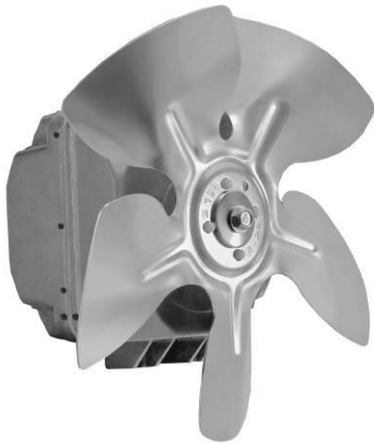


# ebmpapst

***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 <sup>3</sup> /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 <sup>3</sup> /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.



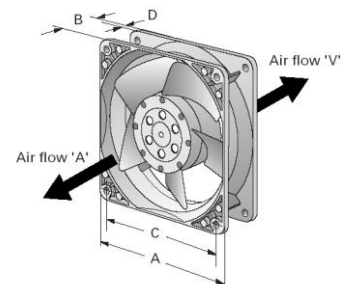
X



Y



Z



# 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	
<b>Q motors 230V</b>						
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	



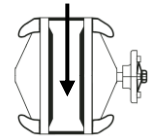
M4Q045EA1115

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

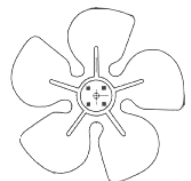
## Fan Blades - Pressed Aluminium 4 Point Hub

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

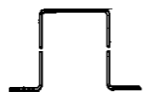


V ← Airflow → A







## Mounting Brackets & Wall Rings

Airefrig Part Number	Description	List Price Excl. GST	
7188124053	Mount Bracket	154mm Max Diameter Fan Blade	\$13.87
7188224053		172mm Max Diameter Fan Blade	\$15.14
7188324053		200mm Max Diameter Fan Blade	P.O.A.
7188424053		254mm Max Diameter Fan Blade	P.O.A.
5116624037	Wall ring to suit 'Q' Motors	'V' Flow Ø 300mm 22 Deg (Max fan)	P.O.A.
5117424037		'A' Flow Ø 230mm 28 Deg (Max fan)	\$37.15
5254224037		'V' Flow Ø 154mm 34 Deg (Max fan)	P.O.A.
5254424037		'V' Flow Ø 200mm 34 Deg (Max fan)	\$30.03
5254624037		'V' Flow Ø 254mm 28 Deg (Max fan)	\$35.61



# 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 m <sup>3</sup> /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:

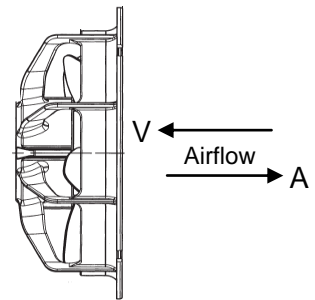
- High and low speeds are programmable using CBC000AF0801 programming unit
- Fan ring is truncated
- Fan can operate in forward and reverse direction at single speed
- Lead not included




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.

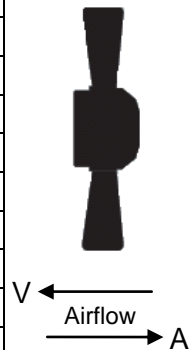


# ebm-papst FAN MOTORS



## Axial Fan Motor Assembly

Airefrig Part Number	Dia. mm	Air Flow	Volts	Phase	Air Volume m <sup>3</sup> /hr	RPM	Input Watts	Amps	Cap $\mu$ /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

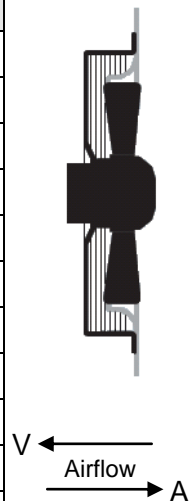


## Grille Axial Fan Assembly

Airefrig Part Number	Dia. mm	Air Flow	Volts	Phase	Air Volume m <sup>3</sup> /hr	RPM	Input Watts	Amps	Cap $\mu$ /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 m <sup>3</sup> /hr	Speed (RPM)	Input Watts	Amps	Cap $\mu$ /F	List Price Excl GST
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### Round Plate

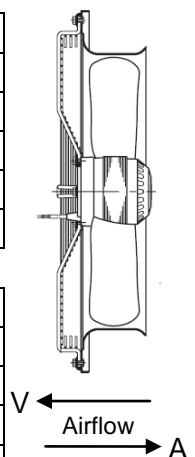
W2E200CI3801	200	A	230	1	915	2600	64	0.30	1.5	P.O.A.
W2E200CH3801	200	V	230	1	1060	2670	60	0.30	1.5	P.O.A.
W2E250CE6502	250	A	230	1	1610	2550	115	0.51	4.0	P.O.A.
W2E250CL0601	250	V	230	1	1820	2450	115	0.51	3.0	\$415.44
W2E300CC4702	300	A	230	1	2440	2650	140	0.62	5.0	\$622.18
W4E300CB0323	300	A	230	1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

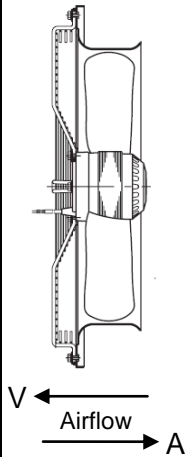
re models available on request



# ebm-papst FAN MOTORS

## Square Plate Axial Fan Assembly (cont'd)

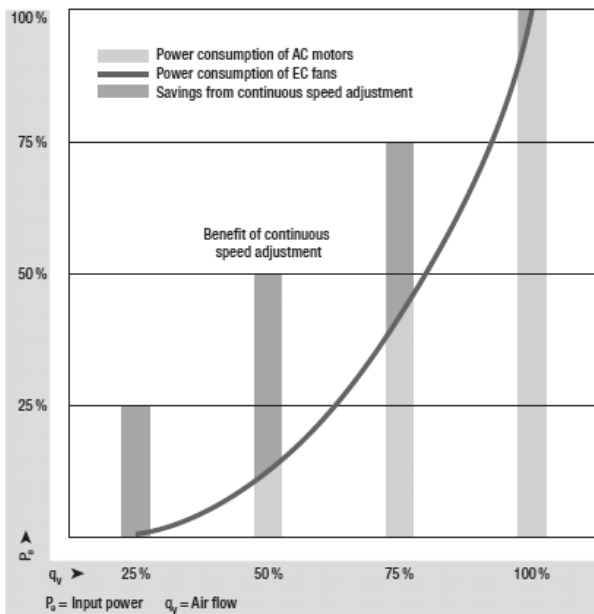
Airefrig Part Number	Dia. mm	Air Flow	Phase	Volts / Wiring	Air Volume m <sup>3</sup> /hr	Speed (RPM)	Input Watts	Amps	List Price Excl GST	
W3G500GN3307 * 	500	V	3	380-480	10390	1600	980	1.60	P.O.A.	
W4D500GJ0311	500	V	3	400	Δ	9030	1340	710	1.40	P.O.A.
					Y	7670	1060	480	0.80	
W3G630GU2301 * 	630	V	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	



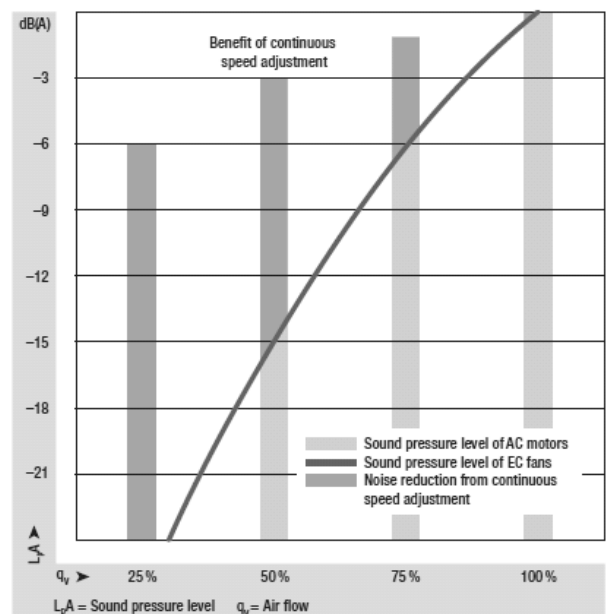
NOTE: More options available on request

\* 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%

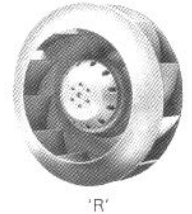


Lower noise: While shutting off half of the fans (one-half of the air flow) decreases the noise level by only about 3dB(A). When reducing the speed of all fans to 50% of the maximum speed, the noise is reduced by 15dB(A).

# ebm-papst FAN MOTORS

## Backward Curved Radial Fan Assembly

Airefrig Part Number	Dia. mm	Volts	Phase	Air Volume m <sup>3</sup> /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



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 <sup>3</sup> /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 <sup>3</sup> /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 <sup>3</sup> /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

