

Latest Products from...

Best Value Range Of AC & DC Axial Fans



See page 298

S-Force DC Axial Fans



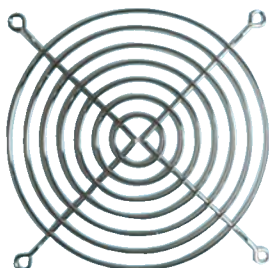
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AC & DC Blowers



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Fan Accessories



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Axial Flow Fans - AC Voltage



AC Fans

Axial



- Low cost, high performance fans
Overload protected using impedance protection
Fitted with sleeve (SB) or ball (BB) bearings
UL94V-0 Rated plastic impellers
Supplied with wire lead connections
Approved to CSA. UL Recognised

Table with columns: Dimensions (mm) H, W, D, Voltage V ac, Power Watts, Air Flow Lt/Sec, Noise dB(A), Bearing Type, Speed RPM, Mfrs. List No., Order Code.

Table with columns: Mfrs. List No., Order Code, Price Each (1+, 10+, 50+, 100+).

Aluminium Housing AC Voltage



- Die-cast aluminium housing
Metal of UL 94V-0 rated plastic impeller
Ball(BB) or sleeve(SL) bearing
Lead wire of Pin connections
Approvals - According to type (Please see Data-Sheet for details)
Operating temperature -30 to +75°C (BB), -10 to +70°C (SL)

Table with columns: Dimensions (mm) H, W, D, Voltage V ac, Power Watts, Air Flow cu ft/min, Noise dBA@1m, Bearing Type, Terminal, Mfrs. List No., Order Code.

Table with columns: Dimensions (mm) H, W, D, Voltage V ac, Power Watts, Air Flow m3/h, Noise dB(A), Bearing Type, Terminal, Mfrs. List No., Order Code.

Table with columns: Voltage V ac, Dimensions (mm) H, W, D, Order Code, Price Each (1+, 5+, 10+, 25+, +).

Looking for Fan Fingerguards and Fan Fixers? see page 312

AC Fans Axial



- High cooling performance fans with internal rotor shaded-pole motor
Overload protected using impedance protection
Connection by lead or pin - Pin connection requires connecting lead
Approved to VDE, CSA and CE. UL Recognised

Table with columns: Dimensions (mm) H x W x D, Voltage V ac, Power Watts, Air Flow m3/h, Noise dB(A), Bearing Type, Connection Type, Mfrs. List No., Order Code.

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Dimensions	Voltage	Power	Air Flow	Noise	Bearing	Connection	Mftrs.	Order	Dimensions	Voltage	Power	Air Flow	Noise	Mftrs.	List No.	Order Code
H W D	V ac	Watts	cu ft/min	dBA@1m					H W D	V ac	Watts	cu ft/min	dBA@1m			
92 x 92 x 25	230	6	31	24	BB	Pin	3956L	960-1449	60 30 115	4.5	7	29	2412PS-12W-B30-A00		101-2734	
92 x 92 x 25	230	6	45	29	BB	Pin	3956M	960-1465	80 80 38	230	10	26.5	33	3115FS-23T-B30-A00		942-0177
92 x 92 x 25	230	11	59	35	BB	Pin	3956	960-0930	80 80 38	115	8.5	32.0	44	3115FS-12T-B30-A00		154-5824
92 x 92 x 38	230	12	20.8	36	SB	Lead	3650	960-0531	80 80 38	115	8.5	32.0	44	3115FS-12W-B30-A00		154-5825
92 x 92 x 38	230	12	75	37	BB	Lead	3656	960-0558	80 80 38	230	8.0	33.0	44	3115FS-23W-B30-A00		154-5827
119 x 119 x 25	115	12	135	42	BB	Pin	9906	960-0949	92 92 25	115	7.0	16	22	3610PS-12T-B10-A00		154-5828
119 x 119 x 25	230	9.5	84	29	BB	Pin	9956L	960-1503	92 92 25	115	12.0	28	33.5	3610PS-12T-B30-A00		154-5829
119 x 119 x 25	230	14	117	37	BB	Pin	9956	960-0957	92 92 25	230	7.0	16	22	3610PS-23T-B10-A00		154-5830
119 x 119 x 38	115	18	180	45	SB	Pins	4600Z	142-6724	92 92 25	230	13	28.0	34	3610PS-23T-B30-A00		154-5831
119 x 119 x 38	115	18	180	45	BB	Pins	4606Z	142-6725	119 119 25	115	14.0	63.5	34	4710PS-12T-B30-A00		154-5832
119 x 119 x 38	115	10	85	26	SB	Pin	4840N	959-9789	119 119 25	230	14.0	63.5	34	4710PS-23T-B30-A00		154-5833
119 x 119 x 38	115	9	97	32	SB	Pin	4800N	959-9738	119 119 38	115	14.4	110.0	45	4715FS-12T-B50-D00		154-5834
119 x 119 x 38	115	18	180	50	SB	Pin	4600N	959-9703	119 119 38	230	14.0	110.0	110	4715FS-23T-B50-D00		154-5835
119 x 119 x 38	115	18	180	51	SB	Pin	4606N	960-1511	119 119 38	115	15.5	88.2	37	4715MS-12T-B50-A00		154-5836
119 x 119 x 38	230	11	80	25	SB	Pin	4890N	959-9770	119 119 38	230	15.0	88.2	37	4715MS-23T-B50-A00		154-5837
119 x 119 x 38	230	10	100	30	SB	Pin	4850N	959-9746	120 120 38	230	15	88.2	37	4715MS-23T-B5A-A00		942-0185
119 x 119 x 38	230	19	160	40	BB	Pins	4656Z	142-6727	172 38 230	35	176.5	56	5915PC-23T-B30-A00		101-2742	
119 x 119 x 38	230	19	160	46	SB	Pin	4650N	959-9711	172 150 38	115	35.0	176.5	52	5915PC-12T-B30-A00		154-5839
119 x 119 x 38	230	19	160	47	BB	Pin	4656N	960-1520								
119 x 119 x 38	250	18	180	51	BB	Terminals	4656X	142-6728								
119 x 119 x 38	230	13	100	40	SB	Pins	4580Z	151-1298								
127 x 127 x 38	115	12	161.9	39	BB	Pins	5938	151-1299								
127 x 127 x 38	115	17	205.9	47	BB	Pins	5908W	151-1301								
127 x 127 x 38	115	17	205.9	46	SB	Pins	5900	151-1302								
127 x 127 x 38	230	17	205.9	47	BB	Pins	5958W	151-1303								
127 x 127 x 38	230	17	179.9	47	BB	Pins	5958	151-1304								
127 x 127 x 38	230	17	179.9	46	SB	Pins	5950	151-1305								
135 x 135 x 38	115	26	270	50	BB	Pins	5606S	151-1306								
135 x 135 x 38	230	30	235	46	BB	Pins	5656S	151-1307								

For Metal Finger Guards SEE PAGE 312

Mftrs. List No.	Order Code	1+	5+	10+	15+	25+
8830N	960-1473	27.64	25.72	24.61	23.50	22.13
8800N	959-9800	29.03	20.39	17.83	14.92	14.30
8500N	959-9754	26.75	24.66	22.91	22.45	19.47
8506N	960-1414	31.11	22.08	19.31	16.68	16.28
8560N	959-9924	36.83	35.96	34.96	34.61	31.10
8880N	960-1481	27.64	25.72	24.61	23.51	22.13
8850N	959-9797	27.64	25.72	24.61	23.51	22.13
8550N	959-9762	21.44	19.96	18.96	18.01	17.11
8556N	960-1422	21.21	20.98	18.88	18.70	17.18
3906L	960-1430	22.21	20.66	19.78	18.89	17.77
3906	960-0922	28.68	20.13	17.62	14.75	13.80
3956L	960-1449	21.89	20.38	19.49	18.39	17.50
3956M	960-1465	38.11	30.49	28.01	25.78	22.99
3956	960-0930	37.59	30.05	28.01	25.78	22.99
3650	960-0531	20.65	19.63	18.80	18.17	17.34
3656	960-0558	30.21	29.65	28.72	28.42	26.38
9906	960-0949	22.29	20.75	19.85	18.19	17.12
9956L	960-1503	22.29	20.74	19.85	18.95	17.83
9956	960-0957	22.29	20.75	19.85	18.19	17.12
4600Z	142-6724	18.12	16.76	16.04	15.10	14.50
4606Z	142-6725	22.09	20.44	19.56	18.43	17.68
4840N	959-9789	22.58	21.01	20.10	19.21	18.06
4800N	959-9738	22.69	21.56	20.43	19.31	18.16
4600N	959-9703	23.45	22.20	20.95	20.74	18.36
4606N	960-1511	30.75	21.60	18.89	16.87	15.91
4890N	959-9770	23.48	21.85	20.45	19.97	18.79
4850N	959-9746	20.44	19.44	18.61	17.81	17.19
4656Z	142-6727	21.58	19.98	19.11	18.00	17.27
4650N	959-9711	25.49	19.90	15.68	13.12	12.22
4656N	960-1520	35.44	35.08	34.07	33.72	31.83
4656X	142-6728	20.52	18.97	18.16	17.10	16.40
4580Z	151-1298	24.04	22.73	21.64	20.56	19.48
5938	151-1299	27.77	26.25	25.01	23.75	22.49
5908W	151-1301	29.90	28.26	26.92	25.57	24.22
5900	151-1302	25.92	24.50	23.33	22.17	21.00
5958W	151-1303	29.06	27.48	26.17	24.85	23.55
5958	151-1304	27.77	26.25	25.01	23.75	22.49
5950	151-1305	26.16	24.72	23.54	22.37	21.19
5606S	151-1306	47.46	44.85	42.72	40.58	38.44
5656S	151-1307	47.98	45.35	43.19	41.02	38.87
610mm Connecting Lead LZ120 959-9720		1.97	1.84	1.81	1.80	1.78

FOR MORE INFORMATION & CHOICE

Product Search

Papst ACmaxx

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Axial Flow AC



- UL94V-0 plastic impeller and diecast aluminium casing
- Shielded ball bearings
- Impedance protected
- Connection via two 0.11" terminals
- UL recognised, CSA approved

Dimensions	Voltage	Price Each	1+	10+	25+	50+	100+
H W D	ac	Order Code					
60 30 115		101-2734	10.73	8.46	7.38	7.19	7.01
80 80 38	230	942-0177	10.81	8.52	7.00	6.56	6.40
80 80 38	115	NEW 154-5824	8.58	7.72	6.44	6.03	5.60
80 80 38	115	NEW 154-5824	8.58	7.72	6.44	6.03	5.60
80 80 38	115	NEW 154-5825	8.58	7.72	6.44	6.03	5.60
80 80 38	115	NEW 154-5827	8.58	7.72	6.44	6.03	5.60
92 92 25	115	NEW 154-5828	8.71	7.83	6.53	6.11	5.68
92 92 25	115	NEW 154-5829	8.71	7.83	6.53	6.11	5.68
92 92 25	230	NEW 154-5830	8.71	7.83	6.53	6.11	5.68
92 92 25	230	NEW 154-5831	8.71	7.83	6.53	6.11	5.68
119 119 25	115	NEW 154-5832	8.71	7.83	6.53	6.11	5.68
119 119 25	230	NEW 154-5833	8.71	7.83	6.53	6.11	5.68
119 119 38	115	NEW 154-5834	8.20	7.39	6.15	5.76	5.36
119 119 38	230	NEW 154-5835	8.20	7.39	6.15	5.76	5.36
119 119 38	115	NEW 154-5836	8.20	7.39	6.15	5.76	5.36
119 119 38	230	NEW 154-5837	8.20	7.39	6.15	5.76	5.36
120 120 38	230	942-0185	17.79	15.99	14.85	13.51	13.10
172 38 230		101-2742	32.97	27.68	26.06	22.82	21.01
172 150 38	115	NEW 154-5839	26.17	23.56	19.64	18.38	17.09

Axial Flow Fans AC



- CE, TUV approved, UL recognised
- Supplied with 300mm lead
- Long life
- Stable operation
- Operating temperature range -10°C to +90°C

Dimensions (mm)	Voltage	Current (A)	Power (Watts)	Air Flow (CFM)	Noise (dB(A))	Speed (RPM)	Mftrs. List No.	Order Code
80 80 25	220 / 240	0.07	14	20	32.25	2675	SF23080AT/2082HBL.GN	960-6190
80 80 38	220 / 240	0.09	14	30	35	2675	SF23080A/2083HSL.GN	960-6238
80 80 38	115	0.15	14	24	32	2400	SF11580A 1083HBL.GN	156-8510
80 80 38	220 / 240	0.09	18	24	32	2400	SF23080A 2083HBL.GN	156-8511
92 92 25	220 / 240	0.07	14	33.5	38.5	2600	SF23092A/2092HBL.GN	960-6203
92 92 25	115	0.07	7	23	31	1800	SF11592A 1092HBL.GN	156-8512
92 92 25	220 / 240	0.07	15	28	35	2200	SF23092A 2092HBL.GN	156-8513
120 120 25	220 / 240	0.10	19	72	45	2225	DP201AT/2122HBL.GN	960-6220
120 120 25	115	0.12	12.5	47	37	1700	SP103AT 1122LHBL.GN	156-8514
120 120 25	115	0.21	19	66	44	2150	SP101AT 1122HBL.GN	156-8515
120 120 25	220 / 240	0.07	14	47	37	1700	DP203AT 2122LHBL.GN	156-8517
120 120 38	115	0.21	20	95	45.5	2725	SP101A/1123HSL.GN	960-6246
120 120 38	220 / 240	0.125	20	95	47	2725	DP201A/2123HSL.GN	960-6254
120 120 38	115	0.13	11	72	37	2150	SP103A 1123LHBL.GN	156-8518
120 120 38	115	0.21	20	87	45	2750	SP101A 1123HBL.GN	156-8519
120 120 38	220 / 240	0.06	10	72	37	2150	DP203A 2123LHBL.GN	156-8520
120 120 38	220 / 240	0.125	20	87	45	2750	DP201A 2123HBL.GN	156-8521

Axial Flow Fans - AC Voltage - continued

AC Axial Fan
MagLev Series



- Low profile windings
- Higher airflow
- Low power consumption
- Quiet operation
- 300mm lead connection
- CE, TUV Approved, UL Recognised



172x151x51mm



H=172, W=151, D=51

- Alveolate motor with thermal cut off, low operating temperature and low energy consumption
- Ball bearing
- UL, CSA, CE and TUV approved
- Supplied with either lead wire or terminal
- Weight: 908g



Dimensions (mm)		Voltage V ac	Current Consumption (A)	Power Watts	Air Flow CFM	Noise dB(A)	Speed RPM	Mfrs. List No.	Order Code	
H	W									D
60	60	25	115	0.191	3.6	17.5	30	4100	MA1062-HVL.GN	156-8501
60	60	25	220 / 240	0.198	4.1	17.5	30	4100	MA2062-HVL.GN	156-8502
70	70	25	115	0.208	3.7	28	30	3800	MA1072-HVL.GN	156-8503
70	70	25	220 / 240	0.207	4.3	28	30	3800	MA2072-HVL.GN	156-8505
80	80	25	115	0.112	3.6	40	32	3200	MA1082-HVL.GN	156-8506
80	80	25	220 / 240	0.102	4.6	40	32	3200	MA2082-HVL.GN	156-8507
92	92	25	115	0.114	3.6	52	31	2900	MA1092-HVL.GN	156-8508
92	92	25	220 / 240	0.103	4.6	52	31	2900	MA2092-HVL.GN	156-8509

506801

Mfrs. List No.	Order Code	1+	10+	25+	50+	100+	Price Each
MA1062-HVL.GN	156-8501	21.99	20.89	19.84	18.86	17.91	
MA2062-HVL.GN	156-8502	21.99	20.89	19.84	18.86	17.91	
MA1072-HVL.GN	156-8503	21.99	20.89	19.84	18.84	17.91	
MA2072-HVL.GN	156-8505	21.99	20.89	19.84	18.84	17.91	
MA1082-HVL.GN	156-8506	20.41	19.39	18.43	17.51	16.63	
MA2082-HVL.GN	156-8507	20.41	19.39	18.43	17.51	16.63	
MA1092-HVL.GN	156-8508	20.41	19.39	18.43	17.51	16.63	
MA2092-HVL.GN	156-8509	20.41	19.39	18.43	17.51	16.63	

119mm - Compact AC Max



- AC motor with completely integrated drive and control electronics.
- High efficiency and very low power consumption.
- Compatible with worldwide line voltage.
- Fan of fibre-glass reinforced plastic, PBTP housing and PA impellor.
- Air exhaust over struts, rotational direction clockwise looking at rotor.
- External connection via 2 leads AWG22 TR64, stripped and tinned ends.
- Low Mass 325g



H = 119, W = 119, D = 32mm

Voltage Range V ac	Power Watts	Air Flow cu ft/min	Noise m ³ /h	Operating Temp °C	Mfrs. List No.	Order Code
85 to 265	11	120	204	51	-20°C to +70°C	AC4300 H 129-3476

449782

Dimensions (mm)		Voltage	Order Code	1+	5+	10+	25+	50+	Price Each
H	W								
119	119	64	85 to 265V ac	129-3476	34.60	31.16	29.03	26.92	24.79

150mm



- Efficient, low noise fans
- Thermally protected shaded pole motor.
- VDE approved, UL recognised, CSA certified
- Fitted with ball bearings.

Life expectancy >50000 hours

Dia=150mm, D=55mm, Width=172mm
Mounting Holes=162mm
Cut-out ∅=147
Fix. Centres=162 x 4.5

Voltage V ac	Power Watts	Air Flow cu ft/min	Noise ltrs/sec	Operating Temp °C	Lead Length	Mfrs. List No.	Order Code
110	39	232	109	-30 to +65	330	W2S130-AA25-01	959-9894
240	40	206	97	-30 to +65	330	W2S130-AA03-01	959-9908
115	38	223.6	380	53 Max.80	Terminals	W2S130-AA25-44	142-6718
230	38	223.6	380	53 Max.70	Terminals	W2S130-AA03-44	142-6719
115	47	223.6	380	60 Max.50	330	W2S130-BM15-01	151-1293
230	47	223.6	380	60 Max.50	330	W2S130-BM03-01	151-1295
110/240	40	206	97	49 -30 to +65	330	W2S130-AA03-49	959-9916
110/240	38	223.6	380	53 Max. 70	330	W2S130-AA03-49	142-6720

204285

Voltage	Dimensions (mm)		Order Code	1+	5+	10+	15+	Price Each
	Dia. x D	W						
110V ac	150 x 55		959-9894	36.45	34.27	32.80	30.74	
240V ac	150 x 55		959-9908	36.45	34.27	32.80	30.74	
115V ac	150 x 55		142-6718	49.43	45.47	42.51	39.55	
230V ac	150 x 55		142-6719	49.43	45.47	42.51	39.55	
115V ac	150 x 55		151-1293	53.87	51.17	49.02	46.88	
230V ac	150 x 55		151-1295	53.86	51.16	49.02	46.87	
110/240V ac	150 x 55		959-9916	60.75	53.48	50.13	49.64	
110/240V ac	150 x 55		142-6720	55.03	50.64	47.33	44.03	

172x51mm



Dia. = 172, D: 51

- Alveolate motor with thermal cut off, low operating temperature and low energy consumption
- Ball bearing
- UL, CSA, CE and TUV approved
- Supplied with either lead wire or terminal
- Weight: 908g



Voltage V ac	Power Watts	Air Flow cu ft/min	Speed RPM	Noise dBA	Lead wire/ Terminal	Mfrs. List No.	Order Code
230	25/26	203/239	2800/3200	51/58	Lead wire	A2175-HBL TC.R GN	118-1505
230	25/26	203/239	2800/3200	51/58	Terminal	A2175-HBT TC.R GN	118-1508

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Mfrs. List No.	Voltage	Order Code	1+	5+	10+	25+	50+	Price Each
A2175-HBL TC.R GN	230V	118-1505	21.98	20.73	19.47	18.22	16.96	
A2175-HBT TC.R GN	230V	118-1508	28.96	27.31	25.65	24.00	22.34	

172mm



H=150, W=172, D=38
Dia=172, D=51

- Metal fan housing and impeller
- Thermally protected external rotor capacitor motor
- Fitted with ball bearings
- VDE, and CSA approved, UL recognised

Voltage V ac	Power Watts	Air Flow cu ft/min	Noise ltrs/sec	Operating Temp °C	Mfrs. List No.	Order Code
115	24	229.4	108.2	57 -30°C to +80°C	7006ES	960-1120
230	29	194.1	91.5	52 -30°C to +65°C	7056ES	960-1139
115	24	230	57	57 Max.70°C	W2E142-BB05-01	142-6712
230	28	230	57	57 Max.70°C	W2E142-BB01-01	142-6713
115	29	294.1	138.7	58 -30°C to +75°C	6028ES	960-1147
230	26	247.1	116.6	54 -30°C to +75°C	6078ES	960-1155
115	26	258.9	60	60 Max.70°C	W2E143-AA15-01	142-6714
230	26	258.9	60	60 Max.70°C	W2E143-AA09-01	142-6716
115	29	294.2	58	58 Max.75°C	W2E143-AB15-01	142-6715
230	29	294.2	58	58 Max.75°C	W2E143-AB09-01	142-6717

204399

Dimensions		Voltage	Order Code	1+	10+	25+	50+	100+	Price Each
H	W								
150	172	38	115V ac	960-1120	79.12	76.48	72.08	67.39	60.50
150	172	38	230V ac	960-1139	79.12	76.48	72.08	67.39	60.50
150	172	38	115V ac	142-6712	57.31	53.91	51.64	49.67	47.67
150	172	38	230V ac	142-6713	57.31	53.91	51.64	49.67	47.67
Dia.172	51	115V ac	960-1147	84.84	81.87	77.16	72.13	64.75	
Dia.172	51	230V ac	960-1155	84.84	81.87	77.16	72.13	64.75	
Dia.172	51	115V ac	142-6714	65.75	60.49	56.38	52.59	49.64	
Dia.172	51	230V ac	142-6716	65.75	60.49	56.38	52.59	49.64	
Dia.172	51	115V ac	142-6715	65.75	60.49	56.38	52.59	49.64	
Dia.172	51	230V ac	142-6717	65.75	60.49	56.38	52.59	49.64	
Finger Guards									
150mm			117-1810	6.56	6.31	6.16	5.82	5.35	
172mm			117-1812	7.56	7.27	7.10	6.71	6.17	

172mm - Compact AC Max



- AC motor with completely integrated drive and control electronics.
- High efficiency and very low power consumption.
- Compatible with worldwide line voltage.
- Metal fan housing, impellor of fibre-glass reinforced plastic PA.
- Air exhaust over struts, rotational direction counter clockwise looking at rotor.
- External connection via 2 leads AWG22 TR64, stripped and tinned ends.
- Housing with ground lug M4 x 8 screws.
- Mass 900g

Dia = 171.5, D = 50.8mm

Voltage Range V ac	Power Watts	Air Flow cu ft/min	Noise m ³ /h	Operating Temp °C	Mftrs. List No.	Order Code
85 to 265	13.5	206	350	-20°C to +70°C	AC6200 NM	129-3477

449783

Dimensions (mm)		Price Each						
Dia.	D	1+	5+	10+	25+	50+		
171.5	50.8	85 to 265V ac	129-3477●	57.80	50.88	47.41	43.94	40.48

171.5mm, 225mm



- Robust all-metal construction
- Ball bearings
- Reverse mounting for sucking or blowing
- Locked rotor protection by built-in thermal cut-out
- Mounting in any position
- CSA, VDE approved, UL recognised

AC Compact Fans		Supply - 230V - Single Phase - 50Hz				
Air Flow (l/s)	Dimensions H W D	Impeller	Noise Level dBA@1m	Mftrs. List No.	Order Code	
104	171.5 171.5 51	143	54	6058ES	960-1198	
257	225 225 80	200	59	W2E200-HH38-01	960-1201	

213833

Type	Mftrs. List No.	Order Code	1+	5+	10+
Fans					
AC Compact	6058ES	960-1198●	47.34	42.64	40.68
AC Compact	W2E200-HH38-01	960-1201●	66.45	63.15	59.71
Finger Guards					
171mm	04013-2-4039	117-1827●	5.64	5.49	5.35
225mm	78128-2-4039	117-1828●	9.82	9.34	8.87

254x89mm



- Alveolate motor with thermal cut off, low operating temperature and low energy consumption
- Ball bearing
- UL recognised, CSA, CE and TUV approved
- Supplied with solder terminals
- Weight: 2000g

Dia. = 254, D: 89

Voltage V ac	Power Watts	Air Flow cu ft/min	Speed RPM	Noise dBA	Mftrs. List No.	Order Code
115	26/23	600/665	1400/1600	50/52	A1259-MBT TC.GN	118-1503
230	30/30	600/665	1400/1600	50/52	A2259-MBT TC.GN	118-1509

311524396189

Mftrs. List No.		Order Code	1+	5+	10+	25+	50+
A1259-MBT TC.GN	115V	118-1503●	63.53	59.90	56.27	52.63	49.00
A2259-MBT TC.GN	230V	118-1509●	45.34	42.75	40.16	37.57	34.98

AC Axial Fan



- Reliable and rugged plate fans suitable for industrial application
- External rotor motor gives good speed control and energy efficiency
- Sickle blades provide lower sound levels, higher pressure development and improved air flow
- Insulation class F (unless otherwise stated) motor with maintenance free sealed for life bearings
- Terminal box protected by IP 54

- Galvanised painted wall plate with full bell-mouth and inlet guard

Voltage	Power Input	Air Flow	Noise (dBA)	Dimensions (WxHxD)	Weight	Mftrs. List No.	Order Code
ac, 50/60Hz	47W	945m ³ /h	44	370 x x 49	3.4kg	W4S250-DI02-06*	101-1725
230V ac, 50/60Hz	120W	2441m ³ /h	49	430 x x 62	7.3kg	W4E315-DP18-38	101-1726
230V ac, 50/60Hz	180W	3110m ³ /h	54	485 x x 68	6.8kg	W4E350-DP06-39	101-1727
230V ac, 50/60Hz	300W	5000m ³ /h	61	540 x x 86	7.3kg	W4E400-DS02-38	101-1729
230V ac, 50/60Hz	470W	6732m ³ /h	61	576 x x 86	9.6kg	W4E450-DV01-38	101-1731

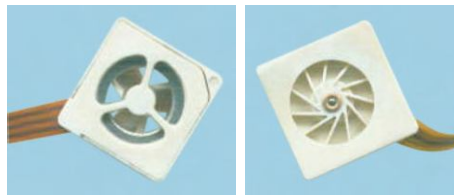
Note: * Denotes Class B Motor

416707

Mftrs. List No.	Order Code	1+	2+	5+
W4S250-DI02-06	101-1725●	134.13	109.36	97.21
W4E315-DP18-38	101-1726●	136.28	117.77	104.68
W4E350-DP06-39	101-1727●	167.78	134.59	119.64
W4E400-DS02-38	101-1729●	179.70	155.60	138.33
W4E450-DV01-38	101-1731●	227.02	201.28	178.92

Axial Flow Fans - DC Voltage

Mighty Mini - Sub-centimetre 3V dc - Fan and Blower



Fan

Blower

- Patented, sub-centimetre micro-sized technology
- Super low noise
- Low power consumption
- Designed to meet the heat dissipation needs of next generation PDAs, smart phones, GPS, and palm-top computers

Dimensions H x W x D (mm)	Voltage V dc	Power Watts	Air Flow l/min	Speed RPM	Noise dBA/5cm	Mftrs. List No.	Order Code
Fan 8 x 8 x 5	2.2 to 3.5	0.2	0.43	14000	27.4	UF385-100	138-0653
Fan 8 x 8 x 3	2.2 to 3.5	0.35	0.12	13500	17.1	UF383-100	156-8522
Fan 10 x 10 x 5	2.2 to 3.5	0.20	0.9	12000	7.7	UF3A5-100	156-8523
Fan 15 x 15 x 5	2.2 to 3.5	0.11	5.2	9600	11.9	UF3F5-100	156-8524
Blower 9 x 9 x 3	2.2 to 3.5	0.09	1.13	15000	30	UB393-100	138-0654
Blower 12 x 12 x 3	2.0 to 3.5	0.13	2	10000	24.6	UB3C3-100	156-8525
Blower 15 x 15 x 3	2.0 to 3.5	0.13	3.1	8000	27.9	UB3F3-100	156-8526

475216

Mftrs. List No.	Voltage	Order Code	1+	10+	Price Each 25+	50+	100+
Miniature Fan							
UF385-100	3V dc	138-0653●	17.75	16.74	15.72	14.71	13.69
UF383-100	3V dc	NEW 156-8522●	27.34	24.59	21.87	17.38	15.39
UF3A5-100	3V dc	NEW 156-8523●	27.34	24.59	21.87	17.38	15.39
UF3F5-100	3V dc	NEW 156-8524●	27.34	24.59	21.87	17.38	15.39
Miniature Blower							
UB393-100	3V dc	138-0654●	17.75	16.74	15.72	14.71	13.69
UB3C3-100	3V dc	NEW 156-8525●	27.34	24.59	21.87	17.38	15.39
UB3F3-100	3V dc	NEW 156-8526●	27.34	24.59	21.87	17.38	15.39

Micro Slim - 6mm Deep



- 25, 30 and 40mm micro slim fans
- Ideal for precision cooling or compact equipment
- Patented single coil brushless 8 pole motor
- Locked rotor protection
- Precision ball bearings
- UL Recognised

Operating Voltage		5V dc		Operating Life		50000 hrs	
Operating temperature		-10°C to +70°C					
Dimensions	Range of H W D	Type	Power Watts	Air Flow cu ft/min	Noise dBA @ 1m	Mftrs. List No.	Order Code
25	25	6 Low Noise, 25mm	0.4	1.2	0.57	21	GM0502PEV2-8.N.GN 960-6114
25	25	6 Standard, 25mm	0.6	1.6	0.76	29	GM0502PEV1-8.N.GN 960-6106
30	30	6 Low Noise, 30mm	0.45	2.4	1.15	20	GM0503PEV2-8.N.GN 960-6149
30	30	6 Standard, 30mm	0.65	3	1.43	25	GM0503PEV1-8.N.GN 960-6130
40	40	6 Low Noise, 40mm	0.5	4.35	2.07	22	GM0504PEV2-8.N.GN 960-6173
40	40	6 Standard, 40mm	0.7	5.5	2.6	26	GM0504PEV1-8.N.GN 960-6165

204367

Voltage V dc	Order Code	1+	10+	Price Each 25+	50+	100+
25mm						
Low Noise	5	960-6114●	10.01	9.61	9.26	8.60
Standard	5	960-6106●	10.01	9.61	9.26	8.60
30mm						
Low Noise	5	960-6149●	10.01	9.61	9.26	8.60
Standard	5	960-6130●	10.01	9.61	9.26	8.60
40mm						
Low Noise	5	960-6173●	10.86	10.43	10.06	9.34
Standard	5	960-6165●	10.86	10.43	10.06	9.34



Axial Flow Fans - DC Voltage - continued

**Axial Fans
DC Voltage**



- Plastic housing
- Plastic impeller
- Ball and sleeve bearing versions
- Lead wire connections
- Patented single coil brushless 8 pole motor
- Locked rotor protection

Dimensions		Voltage V dc	Power Watts	Air Flow cu ft/min	Noise dBA@1m	Bearing Type	Mftrs. List No.	Order Code
H	W D							
25	25 6	5	0.4	1.2	21	BB	GM0502PEV2-8.N.GN	960-6114
25	25 6	5	0.6	1.6	29	BB	GM0502PEV1-8.N.GN	960-6106
25	25 10	12	0.5	3	16	BB	GM1202PFV2-8.GN	960-6491
30	30 6	5	0.45	2.4	20	BB	GM0503PEV2-8.N.GN	960-6149
30	30 6	5	0.65	3	25	BB	GM0503PEV1-8.N.GN	960-6130
30	30 10	12	0.5	4.6	20	BB	GM1203PFV2-8.GN	960-6505
35	35 10	12	0.5	6.5	22	BB	GM1235PFV2-8.GN	960-6513
40	40 6	5	0.5	4.35	22	BB	GM0504PEV2-8.GN	960-6173
40	40 6	5	0.7	5.5	26	BB	GM0504PEV1-8.GN	960-6165
40	40 10	5	0.8	7.0	27	SB	MCKD0504PFS2.11.GN	156-8405
40	40 10	12	1	7	27	BB	KDE1204PFV2.11.MS.A.GN	960-6521
40	40 10	12	1.1	7.0	27	SB	MCKD1204PFS2.11.GN	156-8406
40	40 20	5	0.7	7.7	21	SB	MCKD0504PKS2.GN	156-8407
40	40 20	12	1	7.3	26	BB	KDE1204PKV2.MS.GN	960-6645
40	40 20	24	0.96	6.2	25	BB	KDE2404PKV2.MS.A.GN	960-6653
50	50 10	5	0.9	11.0	26	SB	MCKD0505PFS2.11.GN	156-8409
50	50 10	12	1.2	11.0	26	SB	MCKD1205PFS2.11.GN	156-8410
50	50 15	5	0.9	13	29	SB	MCKD0505PHS2.GN	156-8411
50	50 15	12	1.0	13	29	SB	MCKD1205PHS2.GN	156-8412
50	50 15	24	1.3	13	29	SB	MCKD2405PHS2.GN	156-8414
60	60 15	5	0.9	18	31	SB	MCKD0506PFS2.GN	156-8415
60	60 15	12	1.1	18	31	SB	MCKD1206PHS2.GN	156-8416
60	60 25	12	1.0	19.3	30	BB	MCKD0506PTB2.(2).GN	156-8417
60	25 25	12	0.8	19.3	29	BB	MCKDE1206PTV2.MS.A.GN	161-7051
60	25 24	12	0.8	19.3	29	BB	MCKDE2406PTV2.MS.A.GN	161-7052
80	80 20	12	1.3	35	37	BB	MCKD1208PKB2.13.(2).GN	156-8418
80	80 25	12	2	35	32	BB	KDE1208PTV2.13.MS.A.GN	960-6688
80	80 25	24	1.4	36.5	32	BB	KDE2408PTV2.13.MS.A.GN	960-6696
92	92 25	12	2.1	45	34	BB	KDE1209PTV2.13.MS.A.GN	960-6700
92	92 25	24	2.9	45	34	BB	KDE2409PTV2.13.MS.A.GN	960-6718
119	119 25	12	3.6	80	41	BB	KD1212PTB2-6A.GN	960-6726
119	119 25	24	4.8	80	42	BB	KD2412PTB2-6A.GN	960-6734
119	119 38	12	6.8	108	42	BB	KD1212PMB1-6A.GN	960-6742
119	119 38	24	5.5	98	36	BB	KD2412PMB2-6A.GN	960-6750

504993

Voltage V dc	Dimensions			Order Code	Price Each				
	H	W	D		1+	10+	25+	50+	100+
5	25	25	6	960-6114	10.01	9.61	9.26	8.60	7.69
5	25	25	6	960-6106	10.01	9.61	9.26	8.60	7.69
12	25	25	10	960-6491	11.38	9.91	9.62	8.57	7.92
5	30	30	6	960-6149	10.01	9.61	9.26	8.60	7.69
5	30	30	6	960-6130	10.01	9.61	9.26	8.60	7.69
12	30	30	10	960-6505	11.38	9.91	9.62	8.57	7.92
12	35	35	10	960-6513	12.36	10.76	10.44	9.30	8.59
5	40	40	6	960-6173	10.86	10.43	10.06	9.34	8.35
5	40	40	6	960-6165	10.86	10.43	10.06	9.34	8.35
5	40	40	10	NEW 156-8405	3.14	2.99	2.85	2.69	2.56
12	40	40	10	960-6521	8.41	7.35	7.11	6.39	5.92
12	40	40	10	NEW 156-8406	3.14	2.99	2.85	2.69	2.56
5	40	40	20	NEW 156-8407	4.56	4.33	4.11	3.91	3.70
12	40	40	20	960-6645	16.37	14.29	13.14	11.08	9.83
24	40	40	20	960-6653	16.00	13.98	12.84	10.83	9.61
5	50	50	10	NEW 156-8409	3.46	3.27	3.11	2.96	2.81
12	50	50	10	NEW 156-8410	3.14	2.99	2.85	2.69	2.56
5	50	50	15	NEW 156-8411	4.24	4.04	3.84	3.65	3.47
12	50	50	15	NEW 156-8412	3.93	3.72	3.54	3.37	3.19
24	50	50	15	NEW 156-8414	4.87	4.63	4.41	4.18	3.98
5	60	60	15	NEW 156-8415	4.41	4.18	3.98	3.77	3.59
12	60	60	15	NEW 156-8416	4.08	3.87	3.67	3.49	3.31
12	60	60	25	NEW 156-8417	6.91	6.57	6.23	5.92	5.63
12	60	60	25	NEW 161-7051	8.61	7.72	7.22	6.63	5.63
24	60	60	25	NEW 161-7052	8.61	7.72	7.22	6.63	5.63
12	80	80	20	NEW 156-8418	6.91	6.57	6.23	5.92	5.63
12	80	80	25	960-6688	18.51	15.45	14.64	12.71	11.45
24	80	80	25	960-6696	17.93	14.97	14.17	12.31	11.09
12	92	92	25	960-6700	18.18	15.82	15.07	12.86	10.81
24	92	92	25	960-6718	15.45	13.44	12.81	10.92	9.19
12	119	119	25	960-6726	16.48	14.75	14.30	12.49	11.38
24	119	119	25	960-6734	21.19	18.96	18.39	16.05	14.64
12	119	119	38	960-6742	17.46	15.60	15.11	13.37	12.22
24	119	119	38	960-6750	17.46	15.60	15.11	13.37	12.22

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SANYO DENKI

Long Life



- Up to 10 years (100,000 hours) continuous operation @ 60°C ambient
- Diecast aluminium housing with **UL94V-1** plastic impeller
- Oversize ball bearings
- Reverse polarity and locked rotor protection
- Connection by two 300mm, 24Awg leads
- Conforms to **EN609-50**

Life expectancy >200,000 hrs (120mm), >100,000 hrs (80mm, 92mm and 140mm)

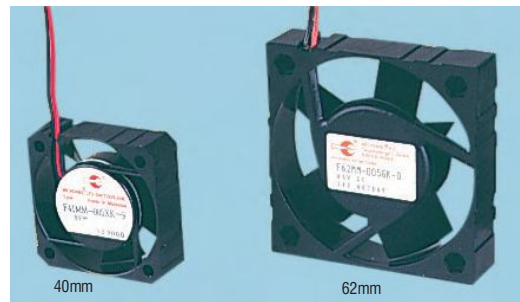
Dimensions H W D	Voltage V dc	Power Watts	Air Flow cu ft/min	Air Flow ltrs/sec	Noise dBA @ 1m	Mftrs. List No.	Order Code
40 40 28	12	1.8	13.1	0.37	40	9L0412H301	131-8956
40 40 28	12	3.72	18.4	0.52	48	9L0412J301	131-8958
60 60 25	12	1.32	18.7	18.7	28	109L0624H402	994-7990
60 60 25	24	1.44	18.7	18.7	28	109L0624H402	994-8007
80 80 25	12	2.1	37.5	17.73	32	109L0812H402	994-8198
80 80 25	24	2.1	37.5	17.73	32	109L0824H402	994-8201
92 92 25	12	2.5	48.9	23	33	109L0912H402	994-8210
92 92 25	24	2.8	48.9	23	33	109L0924H402	994-8228
120 120 38	12	4.8	106	50	41	109L1212H102	994-8236
120 120 38	24	5	106	50	41	109L1224H102	994-8244
120 120 38	48	5.7	106	50	41	109L1248H102	994-8163
140 140 51	24	14.4	209	98.5	52	109L1424H502	994-8180

Fan size	40mm	60mm	80mm	92mm	120mm	140mm
Cut-out Ø	38	63	78	89	117	136
Fixing centres	32	50	71.5	82.5	104.8	142.5
Fixing hole Ø	3.5	4.5	4.3	4.3	4.3	4.3

204322

Size H W D	Voltage V dc	Order Code	Price Each			
			1+	5+	10+	20+
40 40 28	12	131-8956	60.53	57.50	54.63	51.90
40 40 28	12	131-8958	60.71	57.67	54.79	52.05
60 60 25	12	994-7990	50.62	48.09	45.69	43.41
60 60 25	24	994-8007	50.62	48.09	45.69	43.41
80 80 25	12	994-8198	51.51	48.93	46.48	44.16
80 80 25	24	994-8201	51.51	48.93	46.48	44.16
92 92 25	12	994-8210	52.39	49.77	47.28	44.92
92 92 25	24	994-8228	52.39	49.77	47.28	44.92
120 120 38	12	994-8236	72.10	68.50	65.08	61.83
120 120 38	24	994-8244	72.10	68.50	65.08	61.83
120 120 38	48	994-8163	72.10	68.50	65.08	61.83
140 140 51	24	994-8180	98.83	93.89	89.20	84.74

'Ultra Slim'



- Brushless, low noise 'ultra slim' fans
- Glass-fibre reinforced plastic housing
- Reverse polarity protected

Life expectancy >30000 hours (sleeved bearings (SB))
>30,000 hours (ball bearings (BB))

Voltage	Power Watts	Air Flow cu ft/min	Air Flow ltrs/sec	Noise dBA@1m	Operating Temp °C	Lead Length	Bearing Type	Mftrs. List No.	Order Code
40mm									
5V dc	0.7	6.1	2.9	21	-20 to +60	300	BB	F41MM-005XK-9	117-5746
12V dc	1	6.1	2.9	21	-20 to +60	300	BB	F41MM-012XK-9	117-5747
24V dc	1.3	6.1	2.9	21	-20 to +60	300	BB	F41MM-024XK-9	117-5748
62mm									
5V dc	0.8	14.8	7	25	-10 to +65	320	SB	F62MM-005GK-0	117-5751
12V dc	1.1	14.8	7	25	-10 to +65	320	SB	F62MM-012GK-0	117-5752
24V dc	1.2	14.8	7	25	-10 to +65	320	SB	F62MM-024GK-0	117-5753

	40mm	62mm
Height	41	62
Width	41	62
Depth	12	15
Cut-out Ø	39	59
Fixing Centres	32 x 32	50 x 50
Fixing Centres Ø	3.5	4.0

204314

		Voltage (DC)	Price Each				
		Order Code	1+	10+	25+	50+	100+
40 x 12mm	5V	117-5746●	26.29	24.19	23.28	21.79	19.98
	12V	117-5747●	21.03	19.35	18.63	17.44	15.98
	24V	117-5748●	26.29	24.19	23.28	21.79	19.98
62 x 15mm	5V	117-5751●	26.29	24.19	23.28	21.79	19.98
	12V	117-5752●	26.29	24.17	23.28	21.79	19.98
	24V	117-5753●	26.29	24.17	23.28	21.79	19.98

Looking for Fan Fingerguards and Fan Fixers?



see page 312
see page 312

Axial Fans
DC Voltage



- Glass reinforced plastic housing (Except 127mm and 135mm which are metal)
- Plastic impeller
- Ball or sleeve bearing
- Lead wire connections
- Electronically commutated external rotor motor
- Fully integrated communication electronics
- Electronic protection against reverse polarity, blocking and overloading
- Approvals - According to type (Please see Data-Sheet for details)

Dimensions		Voltage	Power	Air Flow	Noise	Bearing		
H	W	V dc	Watts	cu ft/min	dBA@1m		Mfrs. List No.	Order Code
25	25	8	5	0.2	1.28	12	SB	255M 960-0710
25	25	8	5	0.4	1.9	15	SB	255N 960-0728
25	25	8	5	0.6	2.9	28	SB	255H 960-0736
25	25	8	12	0.5	1.9	15	SB	252N 960-0744
25	25	8	12	0.5	1.9	15	SB	252/2N 960-0752
40	40	10	5	0.7	4.7	26	SB	405F 960-0620
40	40	20	5	0.9	5.9	18	SB	405 960-0639
40	40	10	12	0.7	4.7	26	SB	412F 960-1260
40	40	10	12	0.8	5.6	29	SB	412FH 960-1279
40	40	20	12	0.9	5.9	18	SB	412 960-1287
40	40	10	24	0.7	4.7	26	SB	414F 960-1295
40	40	20	24	0.9	5.9	18	SB	414 960-1309
40	40	25	12	2.9	13.6	43	BB	412JH 960-0760
40	40	25	12	3.2	14.7	46	BB	412JHH 960-0779
40	40	25	12	3.2	14.7	46	BB	412J/2HH 960-0787
40	40	25	24	2.4	11.9	39	BB	414J 960-0795
40	40	25	24	2.7	13.6	43	BB	414JH 960-0809
40	40	25	24	2.7	13	43	BB	414J/2H 960-0817
40	40	25	24	4.1	14.7	46	BB	414JHH 960-0825
40	40	25	24	4.1	14.7	46	BB	414J/2HH 960-0833
40	40	25	12	2.4	11.18	39	Ball	412J 129-3489
40	40	25	24	2.4	11.9	39	BB	414J 960-0795
50	50	15	12	1	11.8	30	SB	512F 960-0191
50	50	15	24	1	11.8	30	SB	514F 960-0205
60	60	15	12	1.1	17.1	27	SB	612F 960-0086
60	60	15	24	1.1	17.1	27	SB	614F 960-0094
60	60	25	12	0.7	12.4	26	BB	612L 960-1317
60	60	25	12	1.6	20.6	28	SB	612NGM 960-0299
60	60	25	12	0.8	12.4	16	SB	612NGL 960-0280
60	60	25	24	0.8	12.4	16	SB	614NGL 960-0329
60	60	25	24	2.1	24.1	35	SB	614NGN 960-0345
60	60	25	12	2.6	27.1	38	SB	612NGH 960-0310
60	60	25	12	3.8	33	43	SB	612NGHH 960-0647
60	60	25	24	3.8	33	43	SB	614NGHH 960-0655
60	60	32	24	7.7	41.2	6.4	Ball	614JH 137-2289
80	80	25	12	0.6	19.4	12	SB	8412NGL 960-0981
80	80	25	12	0.6	19.4	12	SB	8412N/2GL 959-9983
80	80	25	24	0.7	19.4	12	SB	8414NGL 960-0990
80	80	25	24	0.7	19.4	12	SB	8414N/2GL 960-0027
80	80	25	12	1.3	34.1	26	SB	8412NGM 960-1007
80	80	25	12	1.3	34.1	26	SB	8412N/2GM 959-9991
80	80	25	24	1.4	34.1	26	SB	8414NGM 960-1015
80	80	25	24	1.4	34.1	26	SB	8414/2GM 960-0035
80	80	25	12	2	40.6	32	SB	8412NG 960-1023
80	80	25	12	2	40.6	32	SB	8412NG/2 960-0000
80	80	25	24	2	40.6	32	SB	8414NG 960-1031
80	80	25	24	2	40.6	32	SB	8414N/2G 960-0043
80	80	25	12	2.8	46.5	37	SB	8412NGH 960-1040
80	80	25	12	2.8	46.5	37	SB	8412N/2GH 960-0019
80	80	25	24	2.2	46.5	37	SB	8414NGH 960-1058
80	80	25	24	2.2	46.5	37	SB	8414N/2GH 960-0051
80	80	32	12	1	18.8	33	BB	8312L 960-1333
80	80	32	24	1	18.8	24	BB	8314L 960-1341
80	80	32	12	2.2	31.8	36	BB	8312 959-9827
80	80	32	24	2.2	32	36	BB	8314 959-9835
80	80	38	24	10	77.7	6.6	Ball	8214JN 137-2290
80	80	32	48	2.6	32	36	BB	8318 960-1325
92	92	25	12	1.2	35.9	23	SB	3412NGL 960-0361
92	92	25	24	1.4	35.9	23	SB	3414NGL 960-0418
92	92	25	12	1.6	42.4	28	SB	3412NGM 960-0370

Dimensions			Voltage	Power	Air Flow	Noise	Bearing		
92	92	25	24	1.8	42.4	28	SB	3414NGM	960-0426
92	92	25	12	2.2	49.4	32	SB	3412NG	960-0388
92	92	25	12	2.2	49.4	32	BB	3412N	960-0396
92	92	25	24	2.3	49.4	32	SB	3414NG	960-0434
92	92	25	24	2.3	49.4	32	BB	3414N	960-0442
92	92	25	12	3	55.3	36	SB	3412NGH	960-0400
92	92	25	24	3	55.3	36	SB	3414NGH	960-0450
92	92	32	12	1.4	33	29	BB	3312L	960-1350
92	92	32	12	2.4	47	37	BB	3312	959-9851
92	92	32	24	2.4	47	37	BB	3314	959-9860
92	92	38	12	9	86.9	55	Ball	3212JH	129-3490
119	119	25	12	3.2	82.4	38	SB	4412FGM	960-1066
119	119	25	12	3.2	82.4	43	BB	4412F/2	960-0060
119	119	25	24	3.2	82.4	38	BB	4414FM	960-1074
119	119	25	24	5	100	43	BB	4414F	960-1082
119	119	25	24	5	100	43	BB	4414F/2	960-0078
119	119	25.4	12	12	132.4	55	BB	4412FNH	129-3487
119	119	25.4	24	12	132.4	55	BB	4414FNH	129-3488
119	119	38	24	9	85.9	55	Ball	3214JH	129-3491
119	119	32	12	1.2	55.9	30	BB	4312L	960-1368
119	119	32	24	1.2	55.9	30	BB	4314L	960-1376
119	119	38	12	1.4	58.9	28	SB	4212NGL	960-0469
119	119	38	24	1.4	58.9	28	SB	4214NGL	960-0493
119	119	32	12	2.6	82.4	39	BB	4312M	960-1384
119	119	32	24	2.6	82.4	39	BB	4314M	960-1392
119	119	38	12	3	84.8	38	SB	4212NGM	960-0477
119	119	38	24	3	84.8	38	SB	4214NGM	960-0507
119	119	32	12	5	100	43	BB	4312	959-9878
119	119	32	24	5	100	43	BB	4314	959-9886
119	119	32	48	5	100	43	BB	4318	960-1406
119	119	38	12	5	105.9	45	BB	4212NH	960-0698
119	119	38	24	5	105.7	45	BB	4214NH	960-0701
119	119	38	12	15.5	153	60	Ball	4112NHH	129-3492
119	119	38	24	15.5	153	60	Ball	4114NHH	129-3493
119	119	38	12	21.6	182.4	65	Ball	4112N/2H3	129-3494
119	119	38	12	32	211.8	67	Ball	4112N/2H4	129-3495
119	119	38	24	26	206.7	66	Ball	4114N/2H4	129-3496
119	119	38	24	45	227	70	Ball	4114N/2H5	129-3498
127	127	38	24	4.7	117.7	44	BB	5214NN	960-1090
127	127	38	12	4.6	110	43	Ball	5212NM	129-3499
127	127	38	24	4.6	110	43	Ball	5214NM	129-3500
127	127	38	12	9.8	148.3	51	Ball	5212NH	129-3501
127	127	38	12	19	198.9	58	Ball	5212N/2HH	129-3502
127	127	38	48	5	110	43	Ball	5218NM	129-3505
135	135	38	12	9.5	147.1	48	BB	5112N	960-1104
135	135	38	24	9.5	147.1	48	BB	5114N	960-1112

504872

Voltage		Dimensions			Order Code	Price Each				
V dc	H	W	D	1+		5+	10+	25+	50+	
5	25	25	8	960-0710●	17.42	15.25	12.73	11.55	9.54	
5	25	25	8	960-0728●	9.95	9.48	9.07	8.67	8.21	
5	25	25	8	960-0736●	10.24	9.75	9.34	8.93	8.45	
12	25	25	8	960-0744●	9.95	9.48	9.07	8.67	8.37	
12	25	25	8	960-0752●	18.36	16.08	13.40	12.17	10.06	
5	40	40	10	960-0620●	11.65	10.82	10.28	9.76	8.56	
5	40	40	20	960-0639●	11.65	10.83	10.37	9.93	9.33	
12	40	40	10	960-1260●	10.84	10.01	9.59	9.23	8.68	
12	40	40	10	960-1279●	10.84	10.01	9.59	9.23	8.68	
12	40	40	20	960-1287●	11.44	10.65	10.20	9.74	9.17	
24	40	40	10	960-1295●	10.84	10.01	9.59	9.23	8.68	
24	40	40	20	960-1309●	11.44	10.65	10.20	9.74	9.17	
12	40	40	25	960-0760●	15.85	15.07	14.41	13.80	12.78	
12	40	40	25	960-0779●	16.38	15.27	14.62	13.99	13.50	
12	40	40	25	960-0787●	28.41	24.86	20.73	18.81	15.55	
24	40	40	25	960-0795●	14.49	13.86	13.50	13.14	12.79	
24	40	40	25	960-0809●	15.85	14.77	14.13	13.53	12.34	
24	40	40	25	960-0817●	27.67	24.20	20.18	18.32	15.16	
24	40									

Axial Flow Fans - DC Voltage - continued

Axial Fans - continued
DC Voltage - continued

Voltage V dc	Dimensions			Order Code	Price Each				
	H	W	D		1+	5+	10+	25+	50+
24	80	80	38	137-2290	19.45	18.58	18.12	17.66	17.16
48	80	80	32	960-1325	25.33	24.97	24.72	24.48	22.68
12	92	92	25	960-0361	15.17	13.22	12.83	12.22	11.26
24	92	92	25	960-0418	15.17	13.22	12.83	12.22	11.26
12	92	92	25	960-0370	15.17	13.22	12.83	12.22	11.26
24	92	92	25	960-0426	15.17	13.22	12.83	12.22	11.26
12	92	92	25	960-0388	15.17	13.22	12.83	12.22	11.26
12	92	92	25	960-0396	17.80	16.74	16.02	15.32	14.61
24	92	92	25	960-0434	15.17	13.22	12.83	12.22	11.26
24	92	92	25	960-0442	17.80	16.74	16.02	15.32	14.61
12	92	92	25	960-0400	15.17	13.22	12.83	12.22	11.26
24	92	92	25	960-0450	15.17	13.22	12.83	12.22	11.26
12	92	92	32	960-1350	22.19	21.33	20.54	19.26	17.01
12	92	92	32	959-9851	20.08	18.69	17.88	16.74	15.00
24	92	92	32	959-9860	20.08	18.69	17.88	16.74	15.00
12	92	92	38	129-3490	22.28	21.29	20.75	20.25	19.65
12	119	119	25	960-1066	28.88	25.98	24.54	24.02	21.01
12	119	119	25	960-0060	28.89	26.00	24.55	24.04	21.03
24	119	119	25	960-1074	24.25	22.54	21.29	19.87	17.87
24	119	119	25	960-1082	24.25	22.54	21.29	19.87	17.87
24	119	119	25	960-0078	28.89	26.00	24.55	24.04	21.03
12	119	119	25.4	129-3487	24.66	24.04	23.44	22.82	21.76
24	119	119	25.4	129-3488	24.66	24.04	23.44	22.82	21.76
24	119	119	38	129-3491	22.28	21.29	20.75	20.25	19.65
12	119	119	32	960-1368	22.79	21.20	20.29	19.14	16.42
24	119	119	32	960-1376	22.79	21.20	20.29	19.14	16.42
12	119	119	38	960-0469	20.62	19.39	18.58	17.42	16.93
24	119	119	38	960-0493	20.62	19.39	18.58	17.42	16.93
12	119	119	32	960-1384	22.79	21.20	19.89	17.88	16.42
24	119	119	32	960-1392	22.79	21.20	19.89	17.88	16.42
12	119	119	38	960-0477	20.62	19.39	18.58	17.42	16.93
24	119	119	38	960-0507	20.62	19.39	18.58	17.42	16.93
12	119	119	32	959-9878	22.79	21.42	20.50	19.40	18.43
24	119	119	32	959-9886	22.79	21.41	20.50	19.40	18.43
48	119	119	32	960-1406	27.05	26.55	26.00	25.74	24.30
12	119	119	38	960-0698	20.62	19.40	18.58	17.43	16.93
24	119	119	38	960-0701	20.62	19.40	18.58	17.43	16.93
12	119	119	38	129-3492	28.00	27.30	26.59	25.86	24.70
24	119	119	38	129-3493	28.00	27.30	26.59	25.86	24.70
12	119	119	38	129-3494	30.50	29.73	28.97	28.25	26.91
12	119	119	38	129-3495	33.09	32.25	31.44	30.53	29.19
24	119	119	38	129-3496	33.09	32.25	31.44	30.53	29.19
24	119	119	38	129-3498	33.29	32.47	31.62	30.73	29.38
24	127	127	38	960-1090	43.40	41.26	39.07	38.40	33.68
12	127	127	38	129-3499	25.41	24.77	24.13	23.56	22.42
24	127	127	38	129-3500	25.41	24.77	24.13	23.56	22.42
12	127	127	38	129-3501	26.14	25.50	24.84	24.36	23.06
12	127	127	38	129-3502	27.15	26.48	25.79	25.12	23.72
48	127	127	38	129-3505	25.41	24.77	24.13	23.56	22.42
48	127	127	38	129-3506	27.15	26.48	25.79	25.12	23.72
12	135	135	38	960-1104	58.55	55.06	51.68	47.10	44.40
24	135	135	38	960-1112	55.55	51.67	49.46	47.24	44.45

DC Axial Fan
S-Force



- Highly stable characteristic curve for high air flow with high back pressure
- Innovative impeller design with winglets for low noise
- Fully integrated electronic commutation
- Protected against reverse polarity and blocking
- Manufactured from fibreglass reinforced plastic. Impeller in PA, housing in PBT
- Electrical connection via single leads with stripped and tinned ends

New

Voltage	Power Input	Air Flow	Noise (dBa)	Mftrs. List No.	Order Code
12V dc	10W	78cu.ft/min	55	8212JN	163-5423
12V dc	25W	112cu.ft/min	66	8212J/2H3 *	163-5424
12V dc	39W	131cu.ft/min	71	8212J/2H4 *	163-5425
24V dc	25W	112cu.ft/min	66	8214J/2H3 *	163-5427
24V dc	38W	131cu.ft/min	71	8214J/2H4 *	163-5428
12V dc	7.5W	77cu.ft/min	51	3212JN	163-5429
12V dc	30W	140cu.ft/min	59	3212JH3	163-5430
12V dc	50W	165cu.ft/min	73	3212JH4	163-5431
24V dc	8W	77cu.ft/min	51	3214JN	163-5432
24V dc	30W	140cu.ft/min	69	3214JH3	163-5433
24V dc	50W	165cu.ft/min	73	3214JH4	163-5434
24V dc	90W	294.2cu.ft/min	76	4114N/2H7P	163-5435
24V dc	120W	335.5cu.ft/min	78	4114N/2H8P	163-5436
12V dc	41W	241.3cu.ft/min	70	5312/2TDHP	163-5437
24V dc	41W	241.3cu.ft/min	70	5314/2TDHP	163-5439
24V dc	67W	288.4cu.ft/min	75	5314/2TDHHP	163-5441

Note: * Denotes Tachometer Output

Nominal/Mftrs. Voltage List No.	Order Code	1+	10+	25+	50+	100+	Price Each
80 x 80 x 38mm							
12V dc 8212JN	163-5423	30.62	28.17	25.72	23.88	22.35	
12V dc 8212J/2H3	163-5424	38.75	35.64	32.54	30.22	28.29	
12V dc 8212J/2H4	163-5425	41.69	38.35	35.02	32.52	30.43	
24V dc 8214J/2H3	163-5427	38.75	35.64	32.54	30.22	28.29	
24V dc 8214J/2H4	163-5428	41.69	38.35	35.02	32.52	30.43	
92 x 92 x 38mm							
12V dc 3212JN	163-5429	32.23	29.65	27.08	25.14	23.52	
12V dc 3212JH3	163-5430	36.61	33.68	30.75	28.56	26.73	
12V dc 3212JH4	163-5431	44.60	41.03	37.47	34.79	32.55	
24V dc 3214JN	163-5432	32.23	29.65	27.08	25.14	23.52	
24V dc 3214JH3	163-5433	36.15	33.26	30.36	28.19	26.40	
24V dc 3214JH4	163-5434	43.30	39.84	36.37	33.78	31.61	
119 x 119 x 38mm							
24V dc 4114N/2H7P	163-5435	94.38	86.83	79.28	73.62	68.90	
24V dc 4114N/2H8P	163-5436	94.38	86.83	79.28	73.62	68.90	
140 x 140 x 51mm							
12V dc 5312/2TDHP	163-5437	120.10	110.49	100.89	93.68	87.67	
24V dc 5314/2TDHP	163-5439	113.27	104.21	95.14	88.35	82.68	
24V dc 5314/2TDHHP	163-5441	120.10	110.49	100.89	93.68	87.67	

Standard



- UL94V-0 plastic casing and impeller
- Shielded ball bearings
- Reverse polarity protected
- Auto-restart facility will shut-down the current if a blockage occurs
- Connection by two 300mm lead wires + Red, - Black
- CSA approved, UL recognised

Dimensions H W D	Voltage V dc	Power Watts	Air Flow cu ft/min	Noise dB@1m	Mftrs. List No.	Order Code
25 25 10	5	0.425	1.6	22	1004KL-01W-B40-B00	154-5794
25 25 10	12	0.54	1.6	22	1004KL-04W-B40-B00	154-5795
25 25 10	12	0.72	2.0	25	1004KL-04W-B50-B00	154-5797
30 30 10	12	0.72	2.7	21	1204KL-04W-B30-B00	154-5798
30 30 10	12	0.96	3.7	27	1204KL-04W-B50-B00	154-5799
35 35 10	12	0.48	3.0	19	1404KL-04W-B30-B00	154-5800
35 35 10	12	0.96	5.6	27	1404KL-04W-B50-B00	154-5801
40 40 10	5	0.775	6.0	29	1604KL-01W-B50-B00	154-5803
40 40 10	12	0.876	6.0	29	1604KL-04W-B50-B00	154-5804
40 15 5	0.6	6	28	1606KL-01W-B30-L00	101-2743	
40 15 5	1.2	8.1	34	1606KL-01W-B50-L00	101-2744	
40 40 15	12	0.8	6	28	1606KL-04W-B30-L00	942-0134
40 15 12	1.02	8.1	34	1606KL-04W-B50-L00	101-2746	
40 15 24	0.5	8.1	34	1606KL-05W-B50-L00	101-2748	
40 40 20	12	1.32	9.5	33	1608KL-04W-B50-L00	154-5805
50 10 5	6.4	10.2	34	2004KL-01W-B50-M00	101-2750	
50 10 12	0.48	6.4	23	2004KL-04W-B30-M00	101-2751	
50 10 12	1.92	10.2	34	2004KL-04W-B50-M00	101-2752	
52 15 12	1.08	12	25.5	2106KL-04W-B40-L00	101-2753	
60 60 10	12	3.24	19.0	36	2404KL-04W-B50-B00	154-5806
60 60 15	12	0.48	6.7	19	2406KL-04W-B10-L00	154-5807
60 60 15	12	1.92	18.3	34	2406KL-04W-B50-L00	154-5808
60 60 15	24	2.40	18.3	34	2406KL-05W-B50-L00	154-5809
60 20 12	1.32	17.6	31.5	2408NL-04W-B50-P00	101-2755	
60 20 24	0.96	10.9	22.5	2408NL-05W-B10-P00	101-2756	
60 20 24	1.32	17.6	31.5	2408NL-05W-B50-P00	101-2758	
60 25 12	1.44	23.5	35	2410ML-04W-B30-E00	942-0142	
60 25 12	1.44	37	46	2410ML-04W-B80-E00	101-2759	
60 25 12	0.6	13	19	2410RL-04W-B10-C00	101-2762	
60 25 12	1.8	24	33.5	2410RL-04W-B50-C00	101-2763	
60 25 12	3.24	28.5	38	2410RL-04W-B70-C00	101-2764	
60 60 25	12	2.40	23.3	35	2410ML-04W-B50-B00	154-5810
60 25 24	6.2	19	31	2410ML-05W-B30-E00	101-2760	
60 25 24	2.24	37	50	2410ML-05W-B80-E00	101-2761	
60 25 24	0.96	13	19	2410RL-05W-B10-C00	101-2765	
60 25 24	2.88	24	33.5	2410RL-05W-B50-C00	101-2766	
60 25 24	4.8	28.5	38	2410RL-05W-B70-C00	101-2767	
60 60 25	24	2.16	21.5	33.5	2410ML-05W-B40-B00	154-5811
60 60 25	24	2.40	23.3	35	2410ML-05W-B50-B00	154-5812
80 15 12	2.04	28.2	30	3106KL-04W-B40-C00	101-2768	
80 15 12	2.76	32.8	34	3106KL-04W-B50-C00	101-2771	
80 20 12	3.36	44	42	3108NL-04W-B50-P00	144-7966	
80 20 24	3.60	44.0	42	3108NL-05W-B5		

Axial Flow Fans - DC Voltage - continued

40 - 120mm Axial Fans - continued

DC - continued

Mfrs. List No.	Order Code	1+	5+	Price Each		
				10+	25+	
120mm x 25mm - Slimline						
BP1202512M-W	971-5002	14.50	12.51	11.15	10.05	
BP1202524M-W	971-5010	14.50	12.51	11.15	10.05	
120mm x 38mm - Standard						
BP1203812H-03-W	971-5029	20.07	18.20	16.73	15.60	
BP1202512H-W	971-5274	14.50	12.51	11.15	10.05	
BP1203824H-03-W	971-5037	20.07	18.20	16.73	15.60	
BP1202524H-W	971-5282	14.50	12.51	11.15	10.05	
BP1203848H-03-W	971-5045	20.07	18.20	16.73	15.60	

Axial Flow Fans - DC

Traditional Motor Series



- Plastic frame and plastic impeller
- Sleeve or ball bearings
- Supplied with connecting leads
- CE, TUV Approved, UL Recognised



Voltage V dc	Power Watts	Current mA	Noise dBA	Air Flow cu. ft./min.	Speed RPM	Bearing Type	Mfrs. List No.	Order Code
5	0.8	161	27	7.0	5800	SB	KD0504PFS2.11.GN	156-8429
5	0.7	140	21	7.7	6200	SB	KD0504PKS2.GN	156-8430
12	0.8	63	21	7.7	6200	SB	KD1204PKS2.GN	156-8431
5	0.9	181	26	11.0	4300	SB	KD0505PFS2.11.GN	156-8432
12	1.2	104	26	11.0	4300	SB	KD1205PFS2.11.GN	156-8433
5	0.9	169	29	13.0	4700	SB	KD0505PHS2.GN	156-8434
12	1.0	81	29	13.0	4700	SB	KD1205PHS2.GN	156-8435
24	1.3	54	29	13.0	4700	SB	KD2405PHS2.GN	156-8436
5	0.9	187	31	18.0	3800	SB	KD0506PHS2.GN	156-8438
12	1.1	93	31	18.0	3800	SB	KD1206PHS2.GN	156-8439
24	1.3	56	31	18.0	3800	SB	KD2406PHS2.GN	156-8440
5	1.6	32	31	18.0	4300	BB	KD0506PTB2.(2).GN	156-8441
12	1.0	87	30	19.3	3800	BB	KD1206PTB2.(2).GN	156-8442
24	1.9	80	31	18.0	4300	BB	KD2406PTB2.(2).GN	156-8443
12	1.3	110	37	35.0	3000	BB	KD1208PKB2.13.(2).GN	156-8444
24	1.1	47	37	35.0	3000	BB	KD2408PKB2.13.(2).GN	156-8445
12	1.3	110	32	37.0	2800	BB	KD1208PTB2.13.(2).GN	156-8446
24	1.2	50	32	37.0	2800	BB	KD2408PTB2.13.(2).GN	156-8447
12	1.6	130	33	48.0	2600	BB	KD1209PTB2.13.(2).GN	156-8448
24	1.4	60	33	48.0	2600	BB	KD2409PTB2.13.(2).GN	156-8451
12	4.4	365	41	117.6	2350	BB	KD1212PMB2.13.(2).GN	156-8452

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Dimensions (mm)	Price Each					
H W D Mfrs. List No.	Order Code	1+	10+	25+	50+	
40 40 10	KD0504PFS2.11.GN	156-8429	5.49	5.22	4.94	4.70
40 40 20	KD0504PKS2.GN	156-8430	6.96	6.62	6.28	5.97
40 40 20	KD1204PKS2.GN	156-8431	6.60	6.26	5.94	5.64
50 50 10	KD0505PFS2.11.GN	156-8432	5.49	5.22	4.97	4.73
50 50 10	KD1205PFS2.11.GN	156-8433	5.13	4.87	4.61	4.38
50 50 15	KD0505PHS2.GN	156-8434	6.60	6.26	5.94	5.64
50 50 15	KD1205PHS2.GN	156-8435	6.23	5.91	5.62	5.34
50 50 15	KD2405PHS2.GN	156-8436	7.70	7.31	6.95	6.59
60 60 15	KD0506PHS2.GN	156-8438	7.33	6.95	6.62	6.30
60 60 15	KD1206PHS2.GN	156-8439	6.60	6.27	5.95	5.65
60 60 15	KD2406PHS2.GN	156-8440	8.42	8.01	7.60	7.23
60 60 25	KD0506PTB2.(2).GN	156-8441	9.74	9.25	8.78	8.35
60 60 25	KD1206PTB2.(2).GN	156-8442	9.09	8.62	8.20	7.78
60 60 25	KD2406PTB2.(2).GN	156-8443	10.72	10.18	9.68	9.19
80 80 20	KD1208PKB2.13.(2).GN	156-8444	9.41	8.94	8.48	8.07
80 80 20	KD2408PKB2.13.(2).GN	156-8445	10.72	10.18	9.67	9.18
80 80 25	KD1208PTB2.13.(2).GN	156-8446	9.09	8.62	8.20	7.78
80 80 25	KD2408PTB2.13.(2).GN	156-8447	10.39	9.87	9.38	8.91
92 92 25	KD1209PTB2.13.(2).GN	156-8448	9.09	8.63	8.19	7.79
92 92 25	KD2409PTB2.13.(2).GN	156-8451	10.39	9.87	9.37	8.90
119 119 38	KD1212PMB2.13.(2).GN	156-8452	18.49	17.58	16.71	15.88

Axial Flow Fans - DC

MagLev Motor Series



- CE, CUR, TUV approved, UL recognised
- Supplied with 300mm lead
- Long life
- Stable operation
- Operating temperature range -10°C to +90°C
- Green Motor range supplied with 3rd sensing wire



Dimensions (mm)	Voltage V dc	Power Watts	Air Flow cu. ft./min.	Noise dBA@1m	Mfrs. List No.	Order Code
W W D						
40 40 10	5	0.7	7.0	27	KDE0504PFV2.11.MS.A.GN	156-8466
40 40 10	12	0.6	6	28.5	KDE1204PFV2.11.MS.A.GN	960-6300
40 40 20	5	0.6	7.7	21	KDE0504PKV2.MS.A.GN	156-8467
40 40 20	12	0.9	6.8	29	KDE1204PKV2.MS.A.GN	960-6319
40 40 20	24	1	7	29	KDE2404PKV2.MS.A.GN	960-6327
40 40 28	12	8.6	24.0	55.5	PMD1204PMB1-A.(2).U.GN	156-8468
50 50 10	5	0.8	11	26	KDE0505PFV2.11.MS.A.GN	156-8469

Dimensions (mm)	Voltage V dc	Power Watts	Air Flow cu. ft./min.	Noise dBA@1m	Mfrs. List No.	Order Code
W W D						
50 50 10	12	1.1	11	26	KDE1205PFV2.11.MS.A.GN	156-8470
50 50 15	5	0.8	13	29	KDE0505PHV2.MS.A.GN	156-8471
50 50 15	12	0.8	13	29	KDE1205PHV2.MS.A.GN	156-8472
50 50 15	24	1.0	13	29	KDE2405PHV2.MS.A.GN	156-8473
60 60 15	5	0.9	18	31	KDE0506PHV2.MS.A.GN	156-8475
60 60 15	12	1.0	18	31	KDE1206PHV2.MS.A.GN	156-8476
60 60 15	24	1.3	18	31	KDE2406PHV2.MS.A.GN	156-8477
60 60 20	12	0.8	19	28	KDE1206PKV2.MS.A.GN	156-8478
60 60 20	24	1.1	19	28	KDE2406PKV2.MS.A.GN	156-8479
60 60 25	12	1.1	19.3	31	KDE1206PTV2.13.MS.A.GN	960-6335
60 60 25	12	0.8	19.3	29	KDE1206PTV2.MS.A.GN	161-7049
60 60 25	24	1.9	19.3	31	KDE2406PTV2.13.MS.A.GN	960-6343
60 60 25	24	1.2	19.3	29	KDE2406PTV2.MS.A.GN	161-7050
60 60 38	12	10.6	56.5	56	PMD1206PMB1-A.(2).GN	156-8480
60 60 38	24	10.3	56.5	56	PMD2406PMB1-A.(2).GN	156-8481
60 60 38	48	11.5	56.5	56	PMD4806PMB1-A.(2).GN	156-8482
80 80 20	12	1.2	33	35	KDE1208PKV2.13.MS.A.GN	156-8483
80 80 20	24	1.2	33	35	KDE2408PKV2.13.MS.A.GN	156-8484
80 80 25	12	1.2	39	31	KDE1208PTV2.13.MS.A.GN	960-6351
80 80 25	24	1.4	6.8	29	KDE2408PTV2.13.MS.A.GN	960-6360
80 80 38	12	9.1	84.1	55.2	PMD1208PMB1-A.(2).GN	156-8485
80 80 38	24	9.6	84.1	55.2	PMD2408PMB1-A.(2).GN	156-8487
80 80 38	48	9.1	84.1	55.2	PMD4808PMB1-A.(2).GN	156-8488
92 92 25	12	2	44	33	KDE1209PTV2.13.MS.A.GN	960-6378
92 92 25	24	2.2	45	34	KDE2409PTV2.13.MS.A.GN	960-6386
120 120 25	12	3.6	80	41	KD1212PTB2-6A.GN	960-6394
120 120 25	24	4.1	80	41	KD2412PTB2-6A.GN	960-6408
120 120 38	12	6.8	108	42	KD1212PMB1-6A.GN	960-6416
120 120 38	24	5.5	98	36.5	KD2412PMB2-6A.GN	960-6424
120 120 38	48	8.1	128	46	KDE4812PMV2.13.MS.A.GN	156-8489

Green Motor Fans						
Mfrs. List No.	Order Code	1+	10+	25+	50+	Price Each
30 30 6	5	0.9	4.9	29	GM0503PEV1-8.N.GN	960-6262
20 20 8	5	0.6	1.3	21	GM0501PDV2-8.N.GN	156-8453
20 20 10	5	0.9	1.5	20	GM0501PFV2-8.N.GN	156-8454
30 30 10	12	0.7	3	25	GM1203PFV2-8.N.GN	960-6289
40 40 6	5	0.55	5.3	28	GM0504PEV2-8.N.GN	960-6270
25 25 6	5	0.4	2.2	23	GM0502PEV2-8.N.GN	156-8455
25 25 10	5	0.4	3.0	16	GM0502PFV2-8.N.GN	156-8456
25 25 15	5	0.4	2.2	14	GM0502PHV2-8.N.GN	156-8457
25 25 15	12	0.4	2.2	14	GM1202PHV2-8.N.GN	156-8458
30 30 6	5	0.4	3.7	24	GM0503PEV2-8.N.GN	156-8459
30 30 10	5	0.5	4.6	20	GM0503PFV2-8.N.GN	156-8460
30 30 15	5	0.4	4.8	20	GM0503PHV2-8.N.GN	156-8461
30 30 15	12	0.4	4.8	20	GM1203PHV2-8.N.GN	156-8463
35 35 6	5	0.5	4.3	19	GM0535PEV2-8.N.GN	156-8464
35 35 10	5	0.5	6.5	22	GM0535PFV2-8.N.GN	156-8465
35 35 10	12	0.8	4.5	21	GM1235PFV2-8.N.GN	960-6297
40 40 10	12	0.8	8.6	36	GM1204PFVX-AF.GN	960-6432
40 40 20	12	1.4	10.8	27.5	KDE1204PKVX.MS.AF.GN	960-6440
60 60 15	12	1.6	22	32	KDE1206PHV1.MS.AF.GN	960-6475
60 60 25	12	1.1	26.2	38	KDE1206PTVX.MS.AF.GN	960-6483

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Mfrs. List No.	Order Code	Price Each			
		1+	10+	25+	50+
Green Motor Fans					
GM0503PEV2-8.N.GN	NEW 156-8459	9.95	9.45	8.97	8.52
GM0503PFV2-8.GN	NEW 156-8460	9.95	9.45	8.97	8.52
GM0503PHV2-8.GN	NEW 156-8461	10.21	9.70	9.21	8.74
GM1203PHV2-8.GN	NEW 156-8463	10.21	9.70	9.21	8.74
GM0535PEV2-8.N.GN	NEW 156-8464	10.47	9.94	9.44	8.97
GM0535PFV2-8.GN	NEW 156-8465	11.78	11.19	10.62	10.09
GM1235PFV2-8.GN	960-6297	7.11	6.70	6.29	5.88
GM1204PFVX-AF.GN	960-6432	3.74	3.53	3.31	3.09
KDE1204PKVX-MS.AF.GN	960-6440	4.11	3.87	3.64	3.41
KDE1206PHV1-MS.AF.GN	960-6475	4.30	4.06	3.81	3.55
KDE1206PTVX-MS.AF.GN	960-6483	4.76	4.50	4.21	3.95

FOR MORE INFORMATION & CHOICE

Product Search

IP54 Fan

RoHS Compliant Items Only |

Voltage V dc	Power Watts	Air Flow cu ft/min	ltrs/sec	Noise dBA@1m	Mfrs. List No.	Order Code
24mm Dia						
6	0.19	1.77	0.83	33	D241L-006GK-1	117-5738
12	0.26	2.12	1	38	D241L-012GK-1	117-5739
36mm Dia						
12	0.96	9.74	4.6	46	D341T-012GK-2	117-5740
24	0.96	9.74	4.6	46	D341T-024GK-2	117-5741
48mm Dia						
12	3.5	22.38	10.56	53	D481T-012KA-3	117-5742
24	2.9	20.12	9.5	51	D481T-024KA-3	117-5743
60mm Dia						
12	6.68	42.1	19.86	57	D601T-012KA-3	117-5744
24	5.54	40.4	19.05	56	D601T-024KA-3	117-5745

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Dimensions Dia x D	Voltage VDC	Order Code	Price Each			
			1+	10+	25+	50+
24x30	6	117-5738	36.92	34.71	33.24	31.76
24x30	12	117-5739	36.92	34.71	33.24	31.76
36x36	12	117-5740	35.02	33.92	32.81	30.96
36x36	24	117-5741	35.02	33.92	32.81	30.96
48x60	12	117-5742	50.06	46.56	44.54	42.62
48x60	24	117-5743	68.16	63.40	60.66	57.94
60x60	12	117-5744	83.04	80.50	77.77	73.46
60x60	24	117-5745	83.04	80.50	77.77	73.46

DC Axial Fans (Panaflo)



Hydro Wave Bearing



Panaflo axial fans suit a wide range of applications. They force air out in a "funnel" type pattern, and are ideal when cooling a specific area such as a power supply that is surrounded by numerous components with minimum ventilation available. Panaflo's unique Hydro Wave Bearing (HWB) addresses the traditional weakness of sleeve bearings, axial friction. The HWB system utilizes a thrust plate that "floats" on a circulating film of oil greatly reducing axial friction and bearing deterioration. The HWB pattern on the bearing virtually eliminates thrust plate contact.

- Locked rotor protection
- Auto-start function
- Lower circuit noise
- Easy access to lead wires (2) via plug-in connector on housing
- CSA Approved and UL Recognised

Voltage V dc	Power W	Air Flow cu.ft./min	m³/min	Noise dB	Current mA	Speed rpm	Mfrs. List No.	Order Code
12	1.86	19.1	0.54	32	155	4200	FBA06A12H1A	109-8886
24	2.04	19.1	0.54	32	85	4200	FBA06A24H1A	109-8888
12	2.08	39.6	1.12	32	173	2950	FBA08A12H1A	109-8889
24	2.52	39.6	1.12	32	105	2950	FBA08A24H1A	109-8890
12	0.82	24	0.68	21	68	1900	FBA08A12L1A	154-5848
24	1.3	24	0.68	21	54	1900	FBA08A24L1A	154-5849
12	2.7	56.8	1.61	35	225	2850	FBA09A12H1A	109-8891
24	3.36	56.8	1.61	35	140	2850	FBA09A24H1A	109-8892
12	1.8	48	1.36	30	150	2450	FBA09A12M1A	154-5850
12	2.7	56.8	1.61	35	255	2950	FBA09A12H1B0	154-5852
24	2.64	48	1.36	30	110	2450	FBA09A24M1A	154-5853
12	2.7	56.8	1.61	35	140	2950	FBA09A12H1BS	154-5854
12	2.16	68.9	1.95	30	180	1700	FBA12G12L1A	109-8893
24	2.64	68.9	1.95	30	110	1700	FBA12G24L1A	109-8894
12	4.44	103.8	2.94	41.5	370	2500	FBA12G12H1A	154-5855
24	4.8	103.8	2.94	41.5	200	2500	FBA12G24H1A	154-5856

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Dimensions H W D	Voltage V dc	Mfrs. List No.	Order Code	Price Each			
				1+	5+	10+	25+
60 60 25.5	12	FBA06A12H1A	109-8886	5.42	5.25	5.07	4.97
60 60 25.5	24	FBA06A24H1A	109-8888	5.42	5.25	5.07	4.97
80 80 25.5	12	FBA08A12H1A	109-8889	5.42	5.25	5.07	4.97
80 80 25.5	24	FBA08A24H1A	109-8890	5.42	5.25	5.07	4.97
80 80 26	12	FBA08A12L1A	NEW 154-5848	6.04	5.87	5.68	5.35
80 80 26	24	FBA08A24L1A	NEW 154-5849	6.04	5.87	5.68	5.35
92 92 25.5	12	FBA09A12H1A	109-8891	4.34	4.20	4.06	3.98
92 92 25.5	24	FBA09A24H1A	109-8892	5.42	5.25	5.07	4.97
92 92 26	12	FBA09A12M1A	NEW 154-5850	6.04	5.87	5.68	5.35
92 92 26	12	FBA09A12H1B0	NEW 154-5852	6.42	6.23	6.04	5.68
92 92 26	24	FBA09A24M1A	NEW 154-5853	6.04	5.87	5.68	5.35
92 92 26	12	FBA09A12H1BS	NEW 154-5854	6.42	6.23	6.04	5.68
120 120 38	12	FBA12G12L1A	109-8893	12.10	11.73	11.32	11.10
120 120 38	24	FBA12G24L1A	109-8894	8.90	8.63	8.33	8.16
120 120 38	12	FBA12G12H1A	NEW 154-5855	13.48	13.10	12.69	11.93
120 120 38	24	FBA12G24H1A	NEW 154-5856	13.48	13.10	12.69	11.93

Miniature, Tube Fans



24mm 36mm 48mm 60mm

- Brushless, low noise
- Supplied with 200mm flying leads
- Black reinforced plastic housing and impeller
- Sleeved bearings

Low Profile, 70mm



- Very compact 15mm low profile fan
- High air flow value and minimum noise level
- DC drive employs an electronically commutated external rotor motor with high efficiency
- Drive electronics are completely integrated into fan hub
- Can be mounted in any position
- Electronic protection against reverse polarity, blocking and overloading
- Extremely low EMI
- New revolutionary sintec sleeve bearing design assures high life time - over 60,000 hours @ 40°C

- Pressure resistant performance curve, specifically designed for CPU cooling and high pressure/low space application
- Manufactured from fibreglass reinforced plastic, PBT housing and PA impeller
- Weight: 53g
- Operating temperature -20°C to +70°C

Dimensions (HxWxD)	70 x 70 x 15	Fixing centres Cut-out	61.5 x 61.5 68
Fixing hole ∅	4.3		
Voltage V dc	Power Watts	Air Flow Cu. ft./min.	Noise dB(A)
12	1.7	25.9	44
Current Consumption (mA)	Speed RPM	Mfrs. List No.	Order Code
140	5300	712F	960-0841

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Mfrs. List No.	Order Code	Price Each			
		1+	5+	10+	25+
712F	960-0841	11.84	11.25	10.78	10.32

Humidity Protected



- Improved humidity protection ≤95%
- Designed to meet humidity range according to group C of DIN40040 item 3.3

Limits of relative humidity are: Annual Mean Value ≤95%
 Maximum value a) On 30 days of the year (naturally distributed) 100 %
 b) On all other days occasionally (under observance of the annual mean value 100%, dewing is allowed)

Voltage V dc	Range V dc	Power Watts	Air Flow cu ft/min	ltrs/sec	Noise dBA@1m	Bearing Type	Mfrs. List No.	Order Code
12	8 to 15	2	19.4	9.1	12	SB	8412NGR	960-0108
24	18 to 28	0.7	19.4	9.1	12	SB	8414NGR	960-0116
12	6 to 15	5	100	47.2	43	BB	4312R	960-0124
24	12 to 28	5	100	47.2	43	BB	4314R	960-0132

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Dimensions H W D	Voltage V dc	Order Code	Price Each			
			1+	10+	25+	50+
80 80 25	12	960-0108	16.61	15.16	14.49	13.63
80 80 25	24	960-0116	16.61	15.16	14.49	13.63
120 120 32	12	960-0124	26.69	24.03	22.77	22.37
120 120 32	24	960-0132	26.69	24.03	22.77	22.37



Axial Flow Fans - DC Voltage - continued

IP54 Rated

ebmpapst



- IP54 rating gives protection in extreme environmental conditions
- Complete stator and PCB are totally encapsulated in polyurethane which is applied under high vacuum pressure forming a one piece moulding
- High quality stainless steel bearing system

Dimensions			Voltage	Power	Air Flow		Noise	Mfrs.	Order
H	W	D	V dc	Watts	cu ft/min	ltrs/sec	dBA @ 1m	List No.	Code
80	80	32	12	2.2	32	15.1	36	8312U	960-0140
80	80	32	24	2.2	32	15.1	36	8314U	960-0159
120	120	32	12	5.4	82.4	38.8	39	4312U	960-0167
120	120	32	24	2.6	82.4	38.8	39	4314U	960-0175

Dimensions			Voltage	Price Each					
H	W	D	V dc	Order Code	1+	10+	25+	50+	100+
80	80	32	12	960-0140	33.91	32.21	30.50	29.97	26.31
80	80	32	24	960-0159	33.91	32.21	30.50	29.97	26.31
120	120	32	12	960-0167	36.79	33.38	31.90	30.41	28.55
120	120	32	24	960-0175	36.79	33.38	31.90	30.41	28.55

'VARIOFAN'

ebmpapst



60mm H=60, W=60, D=25.
Cut-out \varnothing =58, Fix. centres=50 x 50 x 4

80mm H=80, W=80, D=25.
Cut-out \varnothing =77, Lead length=310, Fix. centres=71.5 x 71.5 x 4

92mm H=92, W=92, D=25.
Cut-out \varnothing =89, Lead length=310, Fix. centres=82.5 x 82.5 x 4.3

119mm H=119, W=119, D=32, Cut-out \varnothing =115, Lead length=310, Fix. centres=105 x 105 x 4

- Variable speed
- External NTC thermistor controls speed/airflow relative to temperature
- Thermistor supplied but not fitted, for user flexibility
- Fan speed automatically reduces by upto 50% as thermistor temperature decreases
- Overload and reverse polarity protected
- Glass reinforced plastic (POCAN) housing
- 80mm version VDE approved
- 60mm version VDE, CSA, and CE Approved, UL Recognised

Life expectancy >27500 hours (sleeve bearing (SB))
>37500 hours (ball bearing (BB))
-20°C to +65°C

Voltage	Range	Temp.		Power	Air Flow	Noise	Bearing	Mfrs.	Order	
		of NTC	of NTC							
V dc	V dc	°C	°C	Watts	cu ft/min	ltrs/sec	type.	List No.	Code	
80mm, Slim										
12	8 to 12.6	-	-	1.7	-	35m ³ /h	28	Sleeve	612NGMI	137-2288
80mm, Slim										
12	8 to 14	30	30.0	86.8	0.8	15.9	7.5	10		
		50	30.0	1.5	26.5	15.5	19	SB	8412NGMLV	960-0264
92mm, Slim										
12	8 to 14	30	30.0	86.8	1.9	29.5	14.0	16		
		50	30.0	2.4	49.4	23.4	32	SB	3412NGV	960-0272
119mm, Standard										
12	8 to 12.6	30	30.0	86.8	1.4	41.2	19.4	22		
		50	30.0	3.4	82.5	29.7	40	BB	4312MV-R	960-0183

			Price Each					
	Order Code		1+	10+	25+	50+	100+	
60mm, Slim	137-2288		15.05	14.40	14.03	13.65	13.21	
80mm, Slim	960-0264		13.44	12.81	12.49	12.15	11.54	
92mm, Slim	960-0272		17.58	16.76	16.27	16.11	14.95	
119mm, Standard	960-0183		28.89	27.18	25.57	25.07	23.58	

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DC 120mm - Cast Aluminium Housing



- Cast aluminium housing
- High quality
- 350mm wire leaded
- Ball bearing operating temp: -30°C to +75°C. Life at 40°C of 50000 hrs
- Sleeve bearing operating temp: -10°C to 70°C. Life at 40°C of 30000 hrs
- Approved to CE, CUL, UL recognised (See table below)

Voltage (V dc)	Power	CFM	Noise dBA@1m	Bearing	Approved UL	CUL	CE	Order Code
120mm Ultra High Airflow - 38mm deep								
12	21.6	168	50	Ball	✓	✓	✓	971-5290
12	21.6	168	50	Sleeve	✓	✓	✓	971-5304
24	26.4	168	50	Ball	✓	✓	✓	971-5312
24	26.4	168	50	Sleeve	✓	✓	✓	971-5320
48	24	168	50	Ball	✓	✓	✓	971-5339

Mfrs. List No.	Order Code	Price Each			
		1+	5+	10+	25+
BP1203812HH-03-W	971-5290	20.07	18.20	16.73	15.60
SP1203812HH-03-W	971-5304	15.60	14.23	12.26	11.15
BP1203824HH-03-W	971-5312	20.07	18.20	16.73	15.60
SP1203824HH-03-W	971-5320	15.60	14.23	12.26	11.15
BP1203848HH-03-W	971-5339	20.07	18.20	16.73	15.60

119mm (Cast Aluminium Housings)

ebmpapst



- Compact, high air flow, low power fans
- External rotor with electronic communication
- Stall and reverse polarity protected
- Hard wired or lead connection

H=119, W=119, D=38 Cut out \varnothing =115
Fixing centres=105 x 105 x 40

Life expectancy	>35000 hours sleeve bearing (SB).								
Voltage	Range	Power	Air Flow	Noise	Operating	Bearing	Mfrs.	Order	
V dc	V dc	Watts	cu ft/min	dBA@1m	Temp °C	type.	List No.	Code	
12	7 to 15	3.5	94	44.3	44	-10 to +75	SB	4182NGX	960-0965
24	12 to 30	3.5	94	44.3	44	-10 to +75	SB	4184NGX	960-0973

			Price Each					
Voltage	Order Code		1+	10+	25+	50+	100+	
12V	960-0965		40.10	38.08	36.17	35.81	31.89	
24V	960-0973		40.10	38.08	36.17	35.81	31.89	

150mm

ebmpapst



- Metal fan housing and impeller
- Integral electronic protection against reverse polarity and blocking
- Supplied with two connection leads 365mm long, stripped and tinned at the ends

Operating life @ 40°C 60000h
Operating temperature -20°C to +60°C

Dia.=150, D=55
Fixing centres=162 x 4.3

Voltage	Power	Air Flow	Noise	Mfrs. List No.	Order Code
V dc	Watts	cu ft/min	dBA@1m		
12	12	211.9	50	7212N	960-0906
24	12	211.9	50	7214N	960-0914

			Price Each					
Voltage	Order Code		1+	10+	25+	50+	100+	
12V dc	960-0906		64.62	60.11	57.53	54.94	51.70	
24V dc	960-0914		55.55	49.59	47.46	44.44	42.09	

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172mm



- Metal fan housing and impeller
- Fitted with ball bearings
- Electronic protection against reverse polarity and blocking
- Electronic motor current limitation on start up and when rotor is blocked
- VDE and CSA approved, UL recognised

Voltage V dc	Power Watts	Air Flow cu ft/min	ltrs/sec	Noise dBA@1m	Mfrs. List No.	Order Code
12	12	206	97.7	50	6212NM	960-0213
24	18	241.3	114	55	6224N	960-0221

204360

Dimensions Dia. Depth	Voltage V dc	Order Code	1+	5+	10+	15+	25+	Price Each
172 51	12	960-0213	56.27	54.84	53.45	52.92	49.12	
172 51	24	960-0221	49.10	47.87	46.63	46.17	42.85	

TURBOFAN - 172mm

DC - Speed Control



- Variable speed
- Integrated NTC thermistor controls speed/airflow relative to temperature
- 3-phase EC drive
- Fiberglass reinforced PA plastic impeller
- Metal housing
- Ball bearings
- VDE, CSA, CE Approved, UL Recognised

Dia. = 172, D = 51mm

This particularly powerful DC fan has 3-phase EC drive and completely integrated operating electronics. Speed is controlled regardless of load, with highly intelligent motor management and power and speed reserves that create new areas of application.

Voltage V dc	Range V dc	Power Watts	Air Flow m ³ /h	Pressure dB(A)	Level dB(A)	Bearing type.	Mfrs. List No.	Order Code
48	40 to 55	50	600	65	7.4	Ball	6248NTDI	137-2291

475011

Voltage V dc	Mfrs. List No.	Order Code	1+	5+	10+	25+	50+	Price Each
48	6248NTDI	137-2291	83.78	80.09	78.04	75.99	73.93	

172mm DC Axial Fan

S-Force



- 3-Phase fan drive for high running smoothness
- Highly stable characteristic curve for high air flow with high back pressure
- Low noise at high back pressure
- Fully integrated electronic commutation
- Protected against reverse polarity and blocking
- Housing manufactured from aluminium, impeller in fibreglass reinforced PA
- Housing has grounding lug for M4 x 8 (Torx) screw
- Electrical connection via single leads with stripped and tinned ends



Voltage	Power Input	Air Flow	Noise (dBA)	Mfrs. List No.	Order Code
12V dc	41W	353.1cu.ft./min	64	6312/2TDHP	163-5442
24V dc	41W	353.1cu.ft./min	64	6314/2TDHP	163-5443
24V dc	67W	417.9cu.ft./min	69	6314/2TDHHP	163-5444

523362

Nominal Voltage	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+	Price Each
172mm Dia. x 51mm deep								
12V dc	6312/2TDHP	163-5442	114.54	105.37	96.21	89.33	83.61	
24V dc	6314/2TDHP	163-5443	110.33	101.50	92.68	86.06	80.53	
24V dc	6314/2TDHHP	163-5444	110.34	101.51	92.67	86.05	80.54	

Coming soon



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172mm Diameter

With Motor Protection



6820 Series

5920 Series

- Auto Restart and Polarity Protection
- Black aluminium casing
- Black reinforced polybutylene plastic impeller - UL 94V-0
- Ball bearing
- 300mm Red and Black lead wires

Voltage V dc	Power W	Air Flow cu.ft./min	m ³ /min	Noise dB	Current A	Speed rpm	Mfrs. List No.
12	17.28	240.0	6.8	58	1.44	3350	154-5820
24	15.84	240.0	6.8	58	0.66	3350	154-5821
12	17.28	240.0	6.8	58	1.44	3350	154-5822
24	15.84	240.0	6.8	58	0.66	3350	154-5823

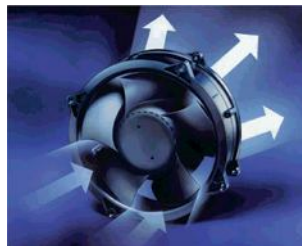
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Mfrs. List No.	Order Code	1+	5+	10+	50+	100+	Price Each
6820PL-04W-B40-D00	154-5820	41.87	34.28	29.50	27.49	24.48	
6820PL-05W-B40-D00	154-5821	41.87	34.28	29.50	27.49	24.48	
5920PL-04W-B40-D00	154-5822	41.87	34.28	29.50	27.49	24.48	
5920PL-05W-B40-D00	154-5823	41.87	34.28	29.50	27.49	24.48	

Mixed Flow Fans

Low Voltage DC, 172mm

High Airflow Pressure



- Combines the structural features of axial and radial fans
- Generates greater static pressure than a standard axial fan
- Metal housing with glass reinforced plastic impeller
- Fully integrated commutation electronics, electronic protection against reverse polarity and blocking

Voltage	Dimensions Dia D	Power Watts	Air Flow cu ft/min	ltrs/sec	Noise dBA	Mfrs. List No.	Order Code
24V dc	172 51	37	317.8	149.9	63	DV6224	960-0604
24V dc	172 51	40	530	311.9	65	DV6424	151-1308

204353

Dimensions Dia D	Voltage	Order Code	1+	10+	25+	50+	100+	Price Each
172 51	24V dc	960-0604	71.29	67.44	66.18	65.23	63.27	
172 51	24V dc	NEW 151-1308	91.45	86.45	82.32	78.20	74.08	

Backward Curved Fans

Backward Curved Centrifugal Fan

Dust and Dirt Resistant



- Ideal for sucking applications against pressure systems, example: extraction from hoods and cabinets
- Non-overloading characteristics
- Utilises external rotor motors
- Built-in thermal protection
- Maintenance-free ball bearings
- Operation possible without scroll

Voltage Supply AC	Impeller Ø (mm)	Air Flow (l/s)	Noise level (dB)	Mfrs. List No.	Order Code
230	133	72	55	R2S133-AE17-05	960-1228
230	175	119	56	R2S175-AB56-01	960-1236
230	190	576	63	R2E190-A026-05	960-1244
220	220	250	74	R2E220-AA40-23	151-1281
230	220	860	74	R2E220-AA40-05	101-1723
225	225	356.75	75	R2E225-BE47-09	151-1283

Backward Curved Fans - continued

Backward Curved Centrifugal Fan - continued

Dust and Dirt Resistant - continued

213834

Voltage Supply AC	Air Flow (ls)	Mfrs. List No.	Order Code	Price Each	
				1+	5+
230	72	R2S133-AE17-05	960-1228	37.94	34.60
230	119	R2S175-AB56-01	960-1236	56.28	51.32
230	160	R2E190-A026-05	960-1244	56.85	54.02
230	250	R2E220-AA40-23	151-1281	75.41	67.59
230	900	R2E220-AA40-05	101-1723	64.34	59.85
230	356.75	R2E225-BE47-09	151-1283	130.57	119.91
Accessories - Inlet Rings					
For R133 Series Fans		9566-2-4013	151-1289	5.00	4.59
For R175 & R190 Series Fans		9588-2-4013	151-1290	7.15	6.57
For R220 Series Fans		9609-2-4013	151-1291	12.86	11.84
For 225 Series Fans		9597-2-4013	151-1292	13.71	12.61

Blowers

DC Radial Blower



- Flat pressure resistant fan developed for installation into equipment with compact dimensions
- DC drive employs an electronically commutated external rotor motor
- Motor electronics is completely integrated into the fan hub

- The air flow and noise level can be controlled by varying the supply voltage range
- Housing manufactured from glass fibre reinforced PBT and blowing wheel from glass fibre reinforced PA6.6
- Ball bearing
- Operating temperature -20°C to +65°C
- Available in 12V and 24V

Voltage (Vdc)	Dimensions (H x W x D)		Order Code	Dimensions (H x W x D)	
	H	W		H	W
960-0850	27	75.5 x 75.2	137-2296	127	127 x 25
129-3482	51	51 x 15	129-3486	93.5	97 x 33
129-3483	51	51 x 15			

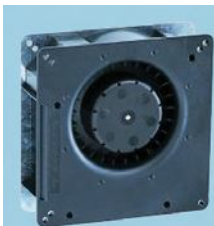
Power W	Sound Level Bel	Air Flow m³/h	Speed rpm	Order Code
5.2	5.7	28	4550	960-0850
3.5	55	9.6	7200	129-3482
4.4	55	9.6	7200	129-3483
8	6.4	64	5100	137-2296
15	66	56	4500	129-3486

249107

Voltage (Vdc)	Mfrs. List No.	Order Code	Price Each		
			1+	5+	10+
12	RL48-19/12	960-0850	14.65	13.92	13.19
12	RLF35-8/12N	129-3482	12.37	12.07	11.75
24	RLF35-8/14N	129-3483	12.37	12.07	11.75
24	RLF100-11/14	137-2296	32.99	32.17	31.35
24	RL65-21/14H	129-3486	21.72	21.18	20.63

AC Radial Blowers

High Static Pressure for Crowded Enclosures



- Durable construction - fiberglass blower wheel and housing mounted on galvanised steel plate
- Electronic protection against reverse polarity and thermal overload
- Air flows into axis of rotation and exhausts through port on one edge
- Supplied with two connecting leads approx 300mm long with stripped and tinned ends
- Advanced ball bearing design for very long operational life, 121mm fans have sleeved bearings

Dimensions			Voltage	Power Watts	Air Flow cu ft/min	Noise m³/h	Mfrs. List No.	Order Code
H	W	D						
121	121	37	115V ac	19.5	24.7	42	RL90-18/00	960-0230
121	121	37	230V ac	20	23.5	40	RL90-18/50	960-0248
135	135	38	230V ac	22	31.8	54	RG90-18/56	960-0876
220	220	56	230V ac	47	118.9	202	RG160-28/56S	960-0884

492475

Dimensions (mm)			Voltage	Order Code	Price Each			
H	W	D			1+	10+	25+	50+
121	121	37	115V ac	960-0230	39.62	27.82	24.35	22.12
121	121	37	230V ac	960-0248	39.61	27.82	24.33	20.37
135	135	38	230V ac	960-0876	29.35	26.61	25.24	24.06
220	220	56	230V ac	960-0884	66.62	60.53	56.95	54.71

DC Radial Blower

Halogen Free Plastic



- Electronically commutated external rotor motor
- Commutation electronics completely integrated
- Electronic reverse polarity protection
- Fibreglass-reinforced, halogen free plastic impeller and housing
- Ball bearings
- VDE, CSA, CE Approved, UL Recognised

Dimensions (H x W x D)		77.3 x 102.5 x 58.85mm			
Power W	Sound Level Bel	Air Flow m³/h	Speed rpm	Order Code	
4.5	5	24	4800	137-2297	

475042

Voltage (Vdc)	Mfrs. List No.	Order Code	Price Each			
			1+	5+	10+	25+
12	RV40-18/12H	137-2297	24.10	23.51	22.90	22.30

DC Compact Blower



- High level of reliability
- Precision ball bearing
- Brushless DC Motor
- Auto restart/reverse polarity protection
- Housing - Plastic (Black) UL94V-0
- Impeller - Plastic (Black) UL94V-0
- CSA, VDE & CE approved. UL Recognised
- RoHS Compliant

Dimensions			Voltage Vdc	Power Watts	Air Flow cu ft/min	Noise dBA@1m	Mfrs. List No.	Order Code
H	W	D						
45	44	12	12	1.08	2.65	35	BM4515-04W-B30-L00	101-2796
51	51	15	12	2.16	3.5	42	BM5115-04W-B50-L00	101-2799
51	51	25	12	2.88	6.7	43	BM5125-04W-B50-L00	101-2802
76	76	25	12	3	9.5	43	BG0702-B045-000-00	101-2804
76	76	25	24	3.36	9.5	43	BG0702-B055-000-00	101-2806
97	94	33	12	4.8	20.5	47.5	BG0903-B042-000-00	101-2807
97	94	33	12	12.4	28.6	54.5	BG0903-B044-000-00	101-2808
93.5	94	33	12	19.2	38.1	61	BG0903-B047-000-00	101-2809
97	94	33	24	11.8	28.6	52.5	BG0903-B054-000-00	101-2811
120	120	32	12	11.16	33.2	54	BG1203-B045-000-00	101-2814
120	120	32	24	11.52	33.2	54	BG1203-B055-000-00	101-2815

416717

Dimensions			Voltage Vdc	Order Code	Price Each				
H	W	D			1+	10+	25+	50+	100+
45	44	12	12	101-2796	11.58	10.45	9.58	8.66	8.23
51	51	15	12	101-2799	14.48	13.06	11.97	10.82	10.29
51	51	25	12	101-2802	14.48	13.06	11.97	10.82	10.29
76	76	25	12	101-2804	18.80	17.08	16.46	14.35	13.38
76	76	25	24	101-2806	18.80	17.08	16.46	14.35	13.38
97	94	33	12	101-2807	22.08	20.39	19.79	17.75	16.39
97	94	33	12	101-2808	22.08	20.39	19.79	17.75	16.39
93.5	94	33	12	101-2809	22.08	20.39	19.79	17.75	16.39
97	94	33	24	101-2811	17.66	16.31	15.83	14.20	13.11
120	120	32	12	101-2814	29.54	27.90	26.62	24.97	22.85
120	120	32	24	101-2815	29.54	27.90	26.62	24.97	22.85

AC Blower

120mm x 31mm



- Shaded Motor
- Die-cast aluminium frame
- Impeller made from thermoplastic PBT
- Auto restart
- Impedance protection
- UL Recognised



Voltage V ac	Power Watts	Air Flow cu ft/min	Noise ltrs/sec	Speed rpm	Mfrs. List No.	Order Code	
							115
115	18	22	10.38	50	2900	MCAB1123-HBT.GN	160-7134
240	18	22	10.38	50	2900	MCAB2123-HST.GN	160-7135
240	18	22	10.38	50	2900	MCAB2123-HBT.GN	160-7136

514985

Voltage V ac	Order Code	Price Each			
		1+	10+	25+	50+
115	160-7132	20.69	18.62	16.76	15.09
115	160-7134	22.81	20.52	18.47	16.63
240	160-7135	20.69	18.62	16.76	15.09
240	160-7136	22.81	20.52	18.47	16.63

7



Over 480,000 products online

Blowers - continued

High Static Pressure for Crowded Enclosures - continued

204293

Dimensions			Voltage	Order Code	Price Each			
H	W	D			1+	10+	25+	50+
121	121	37	12V dc	959-9932	30.64	27.80	25.70	25.42
121	121	37	24V dc	959-9940	30.64	27.80	25.70	25.42
121	121	37	115V ac	960-0230	39.62	27.82	24.35	22.12
121	121	37	230V ac	960-0248	39.61	27.82	24.33	20.37
135	135	38	230V ac	960-0876	29.35	26.61	25.24	24.06
180	180	40	24V dc	959-9967	33.69	30.71	28.25	27.48
220	220	56	12V dc	960-0868	71.65	64.95	60.07	59.43
220	220	56	24V dc	959-9975	71.65	64.95	60.07	59.42
220	220	56	24V dc	137-2295	90.33	85.81	83.56	81.30
220	220	56	230V ac	960-0884	66.62	60.53	56.95	54.71

Low Voltage DC



H = 47, W = 50
L = (203 = 899-914, 260 = 899-926, 365 = 899-938)

- Crossflow fans provide a long but narrow air discharge pattern
- Ideal for cooling electronics in assembly carriers
- Locked rotor and polarity protected
- Very low noise level

Voltage V dc	Power Watts	Air Flow cu ft/min	ft/s	Noise dB(A)@1m	Mfrs. List No.	Order Code
12	6.1	39.4	18.6	48	QG030-148/12	960-1570
12	8	53	25	51	QG030-198/12	960-1589
12	8.5	76.5	36.1	49	QG030-303/12	960-1597

227522

Length	Voltage V dc	Order Code	Price Each			
			1+	5+	10+	25+
203mm	12	960-1570	48.49	46.08	43.66	35.11
260mm	12	960-1589	61.17	56.99	53.97	44.07
365mm	12	960-1597	58.55	53.96	51.66	45.06

Fan Accessories

Panel Fan Mount - Universal



Silicone Rubber



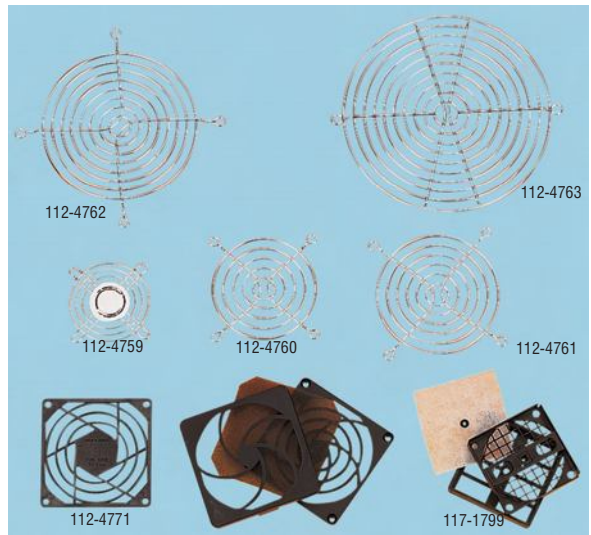
Diameters: Head - 8mm
Body - 5.7mm Tip - 2.4mm
Length (OA) = 119.2mm

- Universal fan fixer to suit any fan with fixing holes from 3.2 - 4.5mm Dia.
- Will fix fan with thickness of 10 to 51mm
- Will fix fan to panel with thickness of 1 to 1.5mm
- Anti-vibration
- Fast and easy to use - No tools required

449780

Mfrs. List No.	Order Code	Price Per Pack of 4					
		1+	10+	25+	50+	100+	250+
MCFMM-1	129-3012	1.32	1.09	0.97	0.85	0.80	0.72

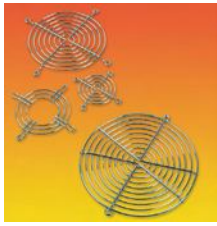
Finger Guards and Filters



204347

Mfrs. List No.	Order Code	1+	10+	25+	50+	
Finger Guards - Silver Metal						
25mm	MC08245	NEW 162-9398	2.02	1.87	1.79	1.73
30mm	MC08346	NEW 162-9400	2.06	1.91	1.83	1.78
35mm	MC08347	NEW 162-9403	2.10	1.95	1.87	1.82
40mm	MC08149	112-4757	2.14	1.99	1.91	1.86
50mm	MC08148	NEW 162-9406	2.28	2.10	2.03	1.97
50/62mm	MC08628	112-4759	2.28	2.10	2.03	1.97
60mm	MC08147	NEW 162-9408	2.30	2.12	2.05	1.99
80mm	MC08172	112-4760	2.46	2.22	2.16	2.09
92mm	MC08174	112-4761	2.58	2.53	2.47	2.43
119mm	MC08170	112-4762	2.72	2.48	2.39	2.35
120mm - Centre Disc	MC08141	NEW 162-9413	2.72	2.48	2.39	2.35
120mm	MC08135	NEW 162-9416	3.72	3.18	2.72	2.60
127mm	MC08150	112-4773	3.72	3.18	2.72	2.60
160mm	MC08126	112-4763	3.41	3.13	3.04	2.99
254mm	MC08127	NEW 162-9419	4.13	3.59	3.13	3.01
Finger Guards - Black Metal						
25mm	MC08245-02	NEW 162-9399	2.02	1.87	1.79	1.73
30mm	MC08346-02	NEW 162-9401	2.06	1.91	1.83	1.78
35mm	MC08347-02	NEW 162-9404	2.10	1.95	1.87	1.82
40mm	MC08149-02	NEW 162-9405	2.14	1.99	1.91	1.86
50mm	MC08148-02	NEW 162-9407	2.28	2.10	2.03	1.97
60mm	MC08147-02	NEW 162-9409	2.30	2.12	2.05	1.99
80mm	MC08172-02	NEW 162-9410	2.46	2.22	2.16	2.09
92mm	MC08174-02	NEW 162-9411	2.58	2.53	2.47	2.43
120mm	MC08170-02	NEW 162-9412	2.72	2.48	2.39	2.35
120mm	MC08141-02	NEW 162-9415	2.72	2.48	2.39	2.35
127mm	MC08135-02	NEW 162-9417	3.72	3.18	2.72	2.60
150mm	MC08126-02	NEW 162-9418	3.93	3.39	2.93	2.81
254mm	MC08127-02	NEW 162-9420	4.13	3.59	3.13	3.01
Finger Guards - Black Plastic						
40mm	MC09150-G	NEW 162-9421	1.50	1.40	1.34	1.31
60mm	MC09250-G	NEW 162-9422	1.61	1.49	1.44	1.39
80mm	MC09325-G	NEW 162-9423	1.84	1.70	1.54	1.42
80mm - Thin	MC0908-G	112-4771	1.84	1.70	1.54	1.42
92mm	MC09362G	112-4774	1.87	1.75	1.60	1.48
119mm	MC0912-G	112-4772	2.05	1.89	1.71	1.57
150mm	MC09650-G	NEW 162-9424	2.74	2.37	2.04	1.91
172mm	MC09651-G	NEW 162-9425	3.43	2.96	2.55	2.39
Filters						
60/62mm	PMFA 60L	117-1799	12.50	11.27	10.29	9.96
80mm	PMFA 80	117-1791	15.31	13.95	12.87	12.48
119mm	PMFA120	117-1796	14.22	12.83	11.69	11.10
160mm	PMFA160	117-1808	17.81	16.03	14.62	14.17
			Price Per Pack			
			1+	10+	25+	50+
Replacement Filters (5 Per Pack)						
60/62mm	FP 60L	117-1801	1.30	1.19	1.07	1.05
80mm	FP80	117-1797	1.54	1.36	1.30	1.28
119mm	MC08149	117-1798	1.92	1.73	1.60	1.56
160mm	FP160	117-1809	2.84	2.58	2.33	2.28

Metal Finger Guards



- Metal finger guards manufactured from plated steel

311650

Mfrs. List No.	Height	Width	Suitable for series	Order Code	Price Each
LZ29-1	40	40	400	117-1814●	2.46
LZ31	50	50	500	137-2292●	2.46
LZ28(CP)	60	60	600	117-1815●	2.46
LZ22K	80	80	8300, 8400, 8500, 8800,	117-1816●	2.56
LZ23K	92	92	3300, 3400, 3600, 3900	117-1817●	2.69
LZ30K	120	120	4100, 4200, 4300, 4400,		
			4500, 4600, 4800, 9900	117-1818●	2.57
LZ35	127	127	3200, 5900	117-1819●	3.35
LZ25	135	135	5100, 5600	117-1803●	5.75
LZ36	150	150	7000, 7100, 7200, 7400, 7800	117-1810●	6.56
LZ26K	172	172	6000, 6200	117-1812●	7.56

Fan Accessories
Guards and Mounting Clip



- Designed to insure safety
- Comply with UL, CSA, and VDE requirements
- Meets UL/CSA .250/6.35 spacing
- Plating bright nickel chrome
- Plating thickness of .0005 min.
- Weld joints withstand 230 lbs. separation force
- Wire base C1010 steel



Diameter (mm)	Mounting Holes Spacing	Depth (mm)	Fan Size	NMB Fan Series	Mfrs. List No.
31.5	32mm x 32mm	4	40mm	1600 Series	055025
53.2	50mm x 50mm	4.6	60mm	2400 Series	055023
76.8	71.5mm x 71.5mm	4.6	80mm	3100 Series	055018
89.4	82.4mm x 82.4mm	4.6	90mm	3600 Series	055013
115.6	105mm x 105mm	4.6	119mm	4700 Series	055015
156	162mm	5	150mm	5900/6800 Series	055010

500230

Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Finger Guards						
055025	154-5841●	2.25	2.00	1.90	1.80	1.70
055023	154-5842●	2.56	2.28	2.16	2.04	1.93
055018	154-5843●	3.43	3.04	2.90	2.74	2.59
055013	154-5844●	3.68	3.27	3.11	2.95	2.79
055015	154-5845●	3.89	3.46	3.28	3.11	2.94
055010	154-5846●	7.06	6.27	5.96	5.64	5.34
Mounting Clip						
512020	154-5847●	1.33	1.18	1.12	1.06	1.00

Filter Assemblies



- Assemblies consist of guard, polyurethane foam filter, and media retainer
- Manufactured from UL94-V0 high impact plastic
- UL Recognised

204318

Fan Size	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
Filter Assemblies							
40mm	MC09150-F/45	NEW 162-9427●	3.44	3.21	3.04	2.70	2.56
60mm	MC09250-F/45	NEW 162-9429●	3.61	3.38	3.19	2.85	2.69
80mm	MC09325-F/45	112-4764●	3.87	3.62	3.43	3.05	2.89
92mm	MC09362-F/45	112-4765●	4.20	3.94	3.70	3.31	3.11
119mm	MC09450-F/45	112-4767●	4.66	4.37	4.11	3.65	3.48
154mm	MC09650-F/45	NEW 162-9431●	4.79	4.50	4.22	3.75	3.57
Replacement Filters (5 Per Pack)							
40mm	MC09150-M/45	NEW 162-9428●	1.96	1.92	1.79	1.60	1.49
60mm	MC09250-M/45	NEW 162-9430●	2.05	2.02	1.88	1.68	1.56
80mm	MC09325M/45	112-4768●	2.20	2.16	2.02	1.82	1.67
92mm	MC09362M/45	112-4769●	2.36	2.10	1.98	1.77	1.57
119mm	MC09450M/45	112-4770●	2.63	2.25	2.13	1.89	1.81
150mm	MC09650-M/45	NEW 162-9432●	3.72	3.34	3.21	2.96	2.88

Filter Assemblies



- Mount directly onto existing fixing locations
- Assemblies consist of 3 elements, outer grill cover, inner fixing plate and filter pad
- The grill cover is moulded in polycarbonate with a matt finish, it incorporates quick release fasteners to assist filter changes
- The inner fixing plate is constructed of steel sheet with a black epoxy powder finish. A plastic screen provides protection when the filter is changed and the fan is running
- The filter pad is made of white synthetic bonded fibre to P15/150R
- The filter will achieve 75% dust particle retention sown to 5-10 microns in size, can withstand temperatures up to 100°C and is flame resistant to BS2963
- Reduction in airflow of 20-30%

311653

Filter Assemblies	Mfrs. List No.	Order Code	Price Each/Per Pack
80mm	PMFA80T	117-1820●	2.60
120mm	PMFA120T	117-1821●	4.63
Replacement Filters			
80mm x 5 filters	FP80T	117-1822●	1.33
120 x 5 filters	FP120T	117-1825●	1.33

EMC Screened Filters



- High efficiency EMC screened axial fan filters/finger guards
- One piece welded mesh construction
- Excellent overall screening effectiveness over fan aperture
- Only 1% airflow reduction, compared with 20% from a conventional woven mesh filter

Size	Average screening effectiveness (dB) 40MHz 1GHz/1.1 GHz - 4GHz	Mfrs. List No.	Order Code
40mm	—	PRF40	117-1826
60/62mm	14.05/15.40	PRF60	117-1804
80mm	23.05/25.80	PRF80	117-1805
92mm	24.74/25.14	PRF90	117-1806
119mm	31.79/22.95	PRF120	117-1807

204305

Size	Order Code	1+	10+	25+	50+	100+
40mm	117-1826●	6.90	5.80	4.76	4.11	2.98
60/62mm	117-1804●	10.38	9.55	9.16	8.73	8.12
80mm	117-1805●	10.39	9.46	9.02	8.62	8.00
92mm	117-1806●	11.24	10.35	9.91	9.45	8.78
119mm	117-1807●	11.70	10.76	10.30	9.83	9.14

Filter Assemblies



EMI/RFI Shielding



These filters provide maximum airflow with effective filtering. Silver, black and stainless steel finishes are available. The tightly woven, corrugated mesh screen is encased in an aluminium frame built for ruggedness and durability. The filters are designed to fit any standard 60mm, 80mm, 92mm or 120mm axial fan. The units are easily washed in a solvent or degreaser and can be mounted directly to the fan or to a panel.

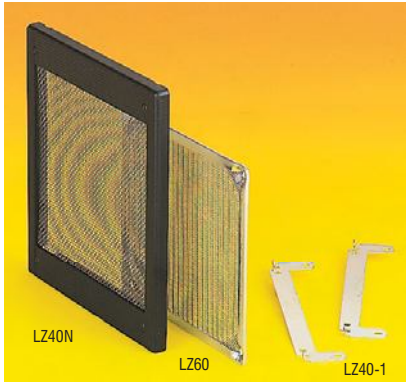


523728

Finish	Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
60mm Fan Size							
Silver	MC06250-M	162-9433●	4.90	4.41	3.97	3.57	3.21
Black	MC06250-B	162-9434●	4.90	4.41	3.97	3.57	3.21
Stainless Steel	MC06250-SS	162-9435●	9.64	8.68	7.81	7.03	6.32
80mm Fan Size							
Silver	MC06325-M	162-9436●	5.81	5.23	4.71	4.24	3.82
Black	MC06325-B	162-9437●	5.81	5.23	4.71	4.24	3.82
Stainless Steel	MC06325-SS	162-9439●	11.02	9.91	8.93	8.04	7.23
92mm Fan Size							
Silver	MC06362-M	162-9441●	6.27	5.65	5.09	4.58	4.12
Black	MC06362-B	162-9442●	6.27	5.65	5.09	4.58	4.12
Stainless Steel	MC06362-SS	162-9443●	8.87	7.99	7.19	6.48	5.83
120mm Fan Size							
Silver	MC06450-M	162-9444●	7.50	6.75	6.08	5.47	4.92
Black	MC06450-B	162-9445●	7.50	6.75	6.08	5.47	4.92
Stainless Steel	MC06450-SS	162-9446●	15.45	13.91	12.53	11.27	10.15

Fan Accessories - continued

Metal Mesh Filter



Fan Mount

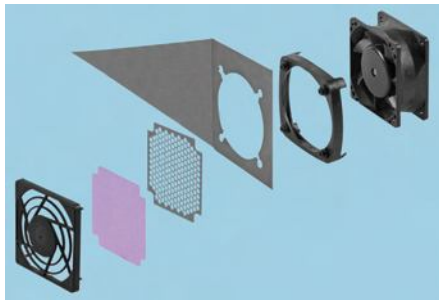
- Designed for 120mm fans
- 117-1813 supplied complete with bracket (LZ40-1)
- Black fibre glass reinforced plastic bezel with inserted stainless steel wire mesh

204361

Mfrs. List No.	Order Code	1+	10+	25+	50+	100+
LZ40N (With LZ40-1)	117-1813●	11.97	11.42	11.19	10.97	10.73
LZ60	142-6219●	5.09	4.76	4.50	4.28	4.06

Fan Vibration Absorber

For Fans from 40mm to 119mm



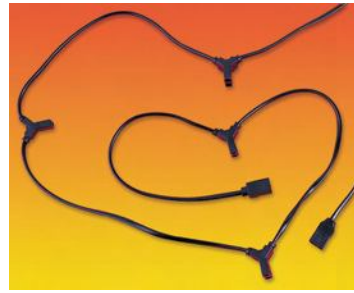
Fan NOT Included

- Fan Vibration Sleeves reduce noise by up to 9dB
- Fast, simple and safe screwless mounting/remounting
- Increased fan life
- Available to fit most manufacturers fans from 40mm to 119mm
- UL Recognised

456288

Fan Size	Order Code	1+	10+	25+	50+	100+
Fan Vibration Sleeves						
40mm	132-6544●	1.900	1.810	1.710	1.570	1.430
60mm	132-6546●	2.850	2.700	2.560	2.350	2.130
80mm	132-6547●	2.400	2.280	2.170	1.980	1.800
92mm	132-6548●	2.780	2.640	2.510	2.290	2.080
119mm	132-6549●	3.390	3.210	3.050	2.790	2.540
Plastic Finger Gard						
40mm	132-6550●	0.700	0.660	0.630	0.580	0.520
60mm	132-6551●	1.170	1.120	1.060	0.980	0.890
80mm	132-6552●	1.300	1.220	1.160	1.070	0.980
92mm	132-6553●	0.700	0.670	0.620	0.570	0.530
119mm	132-6554●	1.410	1.340	1.260	1.150	1.060
EMI Filter Shields						
40mm	132-6555●	1.770	1.670	1.580	1.460	1.330
60mm	132-6556●	1.370	1.300	1.230	1.130	1.020
80mm	132-6558●	2.960	2.810	2.660	2.440	2.220
92mm	132-6559●	2.510	2.390	2.260	2.070	1.880
119	132-6560●	8.270	7.850	7.440	6.820	6.200
Fan Filter Media						
40mm	132-6561●	0.230	0.210	0.200	0.188	0.165
60mm	132-6562●	0.360	0.340	0.330	0.300	0.280
80mm	132-6563●	0.440	0.420	0.400	0.360	0.330
92mm	132-6564●	0.460	0.440	0.420	0.390	0.350
119 mm	132-6565●	0.350	0.340	0.320	0.290	0.270
Fan Fixing Rivets						
Rubber	132-6566●	0.480	0.430	0.390	0.340	0.300

Connecting Leads



- A range of interconnecting options to simplify wiring and for connecting to other system elements

311652/341591

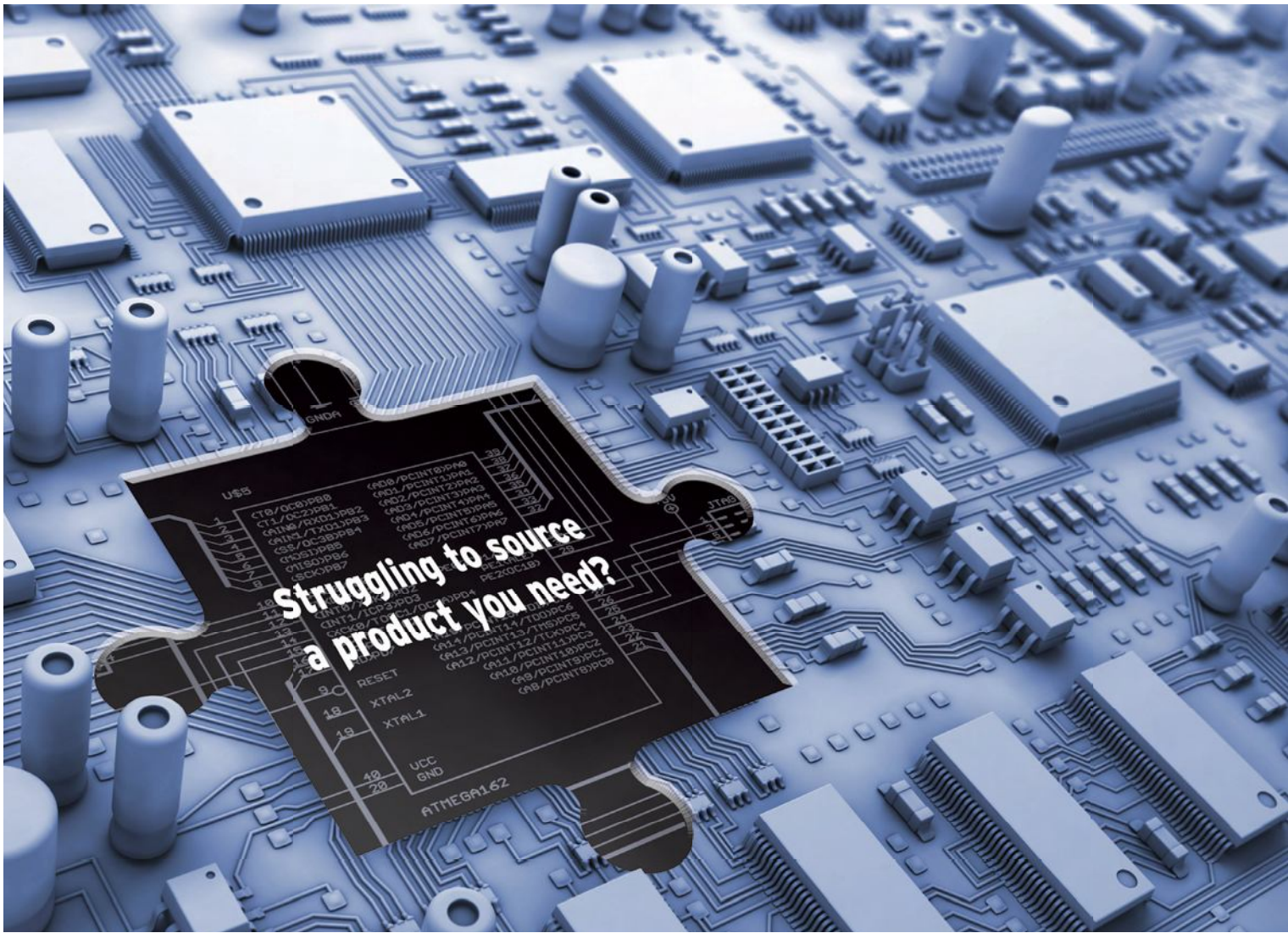
Description	Mfrs. List No.	Order Code	Price Each
610mm AC lead, single head	LZ120	959-9720●	1.97
610mm single fan AC lead, UL approved	LZ130-1M	960-0680●	2.22
1500mm AC lead, single head	LZ120/1.5	960-0663●	2.06
1500mm AC lead, single head + earth lead	LZ120E/1.5	960-0671●	3.23

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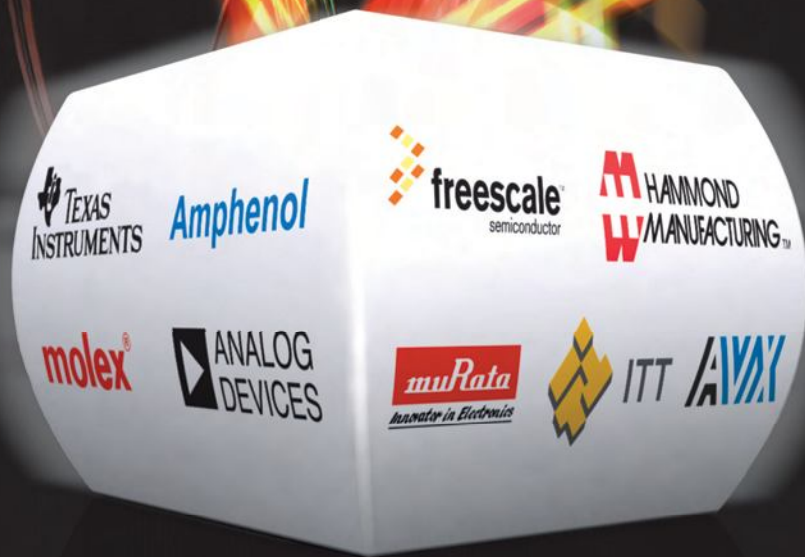
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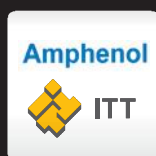


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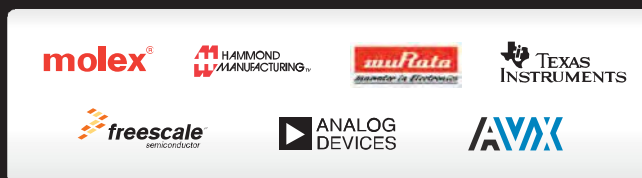
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