

### Axial Flow Fans - DC Voltage - continued

#### 172mm Diameter With Motor Protection



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

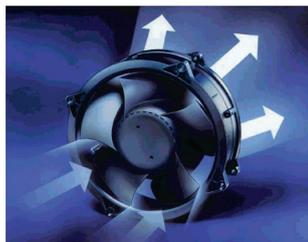
6820 Series		5920 Series		Noise dB	Current A	Speed rpm	Order Code
Voltage V DC	Power W	Air Flow cu.ft/min	m³/min				
12	17.28	240.0	6.8	58	1.44	3350	154-5820
24	15.84	240.0	6.8	58	0.66	3350	154-5821
12	17.28	240.0	6.8	58	1.44	3350	154-5822
24	15.84	240.0	6.8	58	0.66	3350	154-5823

500203

Mfrs. List No.	Order Code	Price Each
6820PL-04W-B40-D00	154-5820	●
6820PL-05W-B40-D00	154-5821	●
5920PL-04W-B40-D00	154-5822	●
5920PL-05W-B40-D00	154-5823	●

### 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			Price Each
Dia	D	Voltage	Order Code
172	51	24V dc	960-0604 ●
172	51	24V DC	151-1308 ●

### Backward Curved Fans

#### DC Backward Curved Fan EC Cassette



Backward curved centrifugal fan develop higher pressure than an axial fan. Comprising of a high efficiency centrifugal fan, inlet nozzle, mounting frame, finger guard and connecting cable. Each of the component parts has been matched to ensure optimum performance. These design factors have had a significant impact on both noise and performance. The result is a highly efficient plug-and-play solution to cooling problems.



Case size - H = 225, W = 225, D = 79mm

- Energy efficient
- Can use as little as 1/3 the energy of industry standard fans
- Easy, quiet, efficient speed control
- Electronics built into the fan
- PA plastic 6.6, fibreglass reinforced impeller
- Control input 0-10 Vdc/PWM
- Tach output
- Locked-rotor protection
- 7 blades, rotating clockwise
- Insulation class "B"
- Any mounting position
- No condensate discharges
- Continuous operation - S1
- EMC interference emission according to EN61000-6-3
- EMC interference immunity according to EN61000-6-2 (K1G), EN61000-6-1 (K3G)
- Harmonics according to DIN EN 61000-3-2/3 (K3G)
- Variable cable exit
- Fan controllers are available separately
- CSA Approved, UL Recognised

Speed	Power Input	Air Flow	Noise (dBA)	Fan Diameter
3100 rpm	34W	565m³/h	65	175mm
2950 rpm	51W	620m³/h	68	190mm

555381

Nominal Mfrs. Price Each

Voltage	List No.	Order Code
<b>175mm Diameter</b>		
24V DC	K1G175-GB63-02	178-1500 ●
48V DC	K1G175-GB41-02	178-1501 ●
<b>190mm Diameter</b>		
24V DC	K1G190-AB27-02	178-1502 ●
48V DC	K1G190-AB25-02	178-1503 ●

### 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 (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
133	133	290	67	R2E133-BH66-05	178-1422
230	220	860	74	R2E220-AA40-05	101-1723
230	180	450	64	R2E180-CB28-01	178-1423
225	225	356.75	75	R2E225-BE47-09	151-1283
250	250	1450	75	R2E250-AS47-05	178-1424

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Voltage Air Flow Price Each

Supply AC	(Is)	Mfrs. List No.	Order Code
230	72	R2S133-AE17-05	960-1228 ●
230	119	R2S175-AB56-01	960-1236 ●
230	160	R2E190-A026-05	960-1244 ●
230	250	R2E220-AA40-23	151-1281 ●
230	290	R2E133-BH66-05	NEW 178-1422 ●
230	356.75	R2E225-BE47-09	151-1283 ●
230	450	R2E180-CB28-01	NEW 178-1423 ●
230	900	R2E220-AA40-05	101-1723 ●
230	1450	R2E250-AS47-05	NEW 178-1424 ●

#### Accessories - Inlet Rings

For R133 Series Fans	9566-2-4013	151-1289 ●
For R175 & R190 Series Fans	9588-2-4013	151-1290 ●
For R220 Series Fans	9609-2-4013	151-1291 ●
For R225 Series Fans	9597-2-4013	151-1292 ●

### 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

Dimensions (mm)	Power W	Sound Level Bel	Air Flow m³/h	Speed rpm	Order Code
27 x 75.5 x 75.2	5.2	5.7	28	4550	960-0850
51 x 51 x 15	3.5	55	9.6	7200	129-3482
127 x 127 x 25	8	60	64	5100	178-1417
51 x 51 x 15	4.4	55	9.6	7200	129-3483
127 x 127 x 25	8	6.4	64	5100	137-2296
93.5 x 97 x 33	15	66	56	4500	129-3486

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Voltage Mfrs. Price Each

Voltage (Vdc)	Mfrs. List No.	Order Code
12	RL48-19/12	960-0850 ●
12	RLF35-8/12N	129-3482 ●
12	RLF100-11/12	NEW 178-1417 ●
24	RLF35-8/14N	129-3483 ●
24	RLF100-11/14	137-2296 ●
24	RL65-21/14H	129-3486 ●

Over 500 000 products available online



**AC Radial Blowers**

High Static Pressure for Crowded Enclosures



- Durable construction - fibreglass 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			Power	Air Flow	Noise	Mfrs.	Order Code		
H	W	D	Watts	cu ft/min	m <sup>3</sup> /h	List No.			
121	121	37	115V AC	19.5	24.7	42	56	RL90-18/00	960-0230
121	121	37	115V AC	19.5	24.7	42	60	RL90-18/06	178-1419
121	121	37	230V AC	20	23.5	40	56	RL90-18/50	960-0248
121	121	37	230V AC	20	23.5	40	60	RL90-18/56	178-1421
135	135	38	230V AC	22	31.8	54	58	RG90-18/56	960-0876
220	220	56	230V AC	47	118.9	202	66	RG160-28/56S	960-0884

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Dimensions (mm)				Price Each
H	W	D	Voltage	Order Code
121	121	37	115V AC	960-0230
121	121	37	115V AC	NEW 178-1419
121	121	37	230V AC	960-0248
121	121	37	230V AC	NEW 178-1421
135	135	38	230V AC	960-0876
220	220	56	230V AC	960-0884

**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	Power	Air Flow	Noise	Mfrs. List No.	Order Code
H	W	D	V dc	Watts	cu ft/min	dB(A)@1m		
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

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Dimensions				Voltage	Price Each
H	W	D	Vdc	Order Code	
45	44	12	12	101-2796	
51	51	15	12	101-2799	
51	51	25	12	101-2802	
76	76	25	12	101-2804	
76	76	25	24	101-2806	
97	94	33	12	101-2807	
97	94	33	12	101-2808	
93.5	94	33	12	101-2809	
97	94	33	24	101-2811	
120	120	32	12	101-2814	
120	120	32	24	101-2815	

**AC Blower**

120mm x 31mm



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



Voltage	Power	Air Flow	Noise	Speed	Mfrs.	Order	
V ac	Watts	cu ft/min	dB(A)@1m	rpm	List No.	Code	
115	18	22	10.38	2900	MCAB1123-HST.GN	160-7132	
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

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Bearing	Voltage	Order Code	Price Each
Type	V ac		
Sleeve	115	160-7132	
Ball	115	160-7134	
Sleeve	240	160-7135	
Ball	240	160-7136	

**DC Blowers**

Plastic Housing



- PBT Plastic case
- Auto restart
- 300mm wire connection
- CE, TUV Approved, UL Recognised



Dimensions (mm)			Voltage	Power	Air Flow	Noise	Speed	Bearing	Mfrs.	Order Code
H	W	D	V dc	Watts	CFM	dB(A)	RPM	Type	List No.	
50	50	15	12	1.2	4	39.8	5000	VAPO	GB1205PHV1-8AY.GN	156-8490
50	50	20	12	1.5	5.7	35	5200	VAPO	GB1205PKV1-8AY.GN	156-8491
60	60	15	12	1.3	5.2	40.5	4800	VAPO	GB1206PHV1-AY.GN	156-8492
75	75	30	12	3.6	13.6	43.5	3400	BB	PMB1275PNB1-AY.(2).GN	156-8493
75	75	30	24	4.1	13.6	43.5	3400	BB	PMB2475PNB1-AY.(2).GN	156-8494
97	94	33	12	8.6	30.5	55.8	3600	BB	PMB1297PYB1-AY.(2).GN	156-8495
97	94	33	24	9.4	30.5	55.8	3600	BB	PMB2497PYB1-AY.(2).GN	156-8496
120	120	32	12	9.8	35.9	53.8	2500	BB	PMB1212PLB2-A.(2).GN	156-8499
120	120	32	24	9.1	35.9	53.8	2500	BB	PMB2412PLB2-A.(2).GN	156-8500

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Mfrs. List No.	Order Code	Price Each
<b>MagLev Green Motor Blower</b>		
GB1205PHV1-8AY.GN	156-8490	
GB1205PKV1-8AY.GN	156-8491	
GB1206PHV1-AY.GN	156-8492	
<b>Power Motor Blower</b>		
PMB1275PNB1-AY.(2).GN	156-8493	
PMB2475PNB1-AY.(2).GN	156-8494	
PMB1297PYB1-AY.(2).GN	156-8495	
PMB2497PYB1-AY.(2).GN	156-8496	
PMB1212PLB2-A.(2).GN	156-8499	
PMB2412PLB2-A.(2).GN	156-8500	

**DC Centrifugal Blowers**



- Brushless DC motor with plastic fan housing and impeller
- High static pressure performance
- Permanently lubricated dual ball bearing system
- Long life and high reliability (L10 40,000 hours continuous operation at 60°C ambient)
- Current limited system with reverse polarity protection
- CSA and TUV approved, UL Recognised

Voltage	Power	Air Flow	Noise	Operating	Mfrs. List No.	Order Code
V dc	Watts	cu. ft./min.	dB(A)@1m	Temp °C		
12	4.44	12.7	41.5	-10 to +60	109BD12HA2	994-8015
24	4.08	12.71	41.5	-10 to +60	109BD24HA2	994-8023
12	7.2	27.5	52	-10 to +60	109BF12HA2	994-8031
24	7.2	27.5	52	-10 to +60	109BF24HA2	994-8040

233520

Dimensions			Price Each
(mm)	Mfrs. List No.	Order Code	
75.5 x 76 x 30	109BD12HA2	994-8015	
76 x 76 x 30	109BD24HA2	994-8023	
120 x 120 x 32	109BF12HA2	994-8031	
120 x 32 x 32	109BF24HA2	994-8040	

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## Blowers - continued

### AC Radial Blowers

120 x 31mm



- Reliable shaded motor construction
- Die-Cast aluminium frame
- Thermoplastic PBT impeller
- Automatic restart capacity
- Impedance protected
- Dielectric strength 1800V ac for 1 second
- Insulation resistance 500 MR minimum at 500 Vdc
- Operating temperature -10 to 70°C
- UL, CUR, TUV and CE Safety approvals

H = 31, W = 120, D = 120mm

Voltage	Speed (RPM)	Power (W)	Air Flow (cu ft/min)	Noise (dBA)	Bearing Type	Order Code
115V AC	2900	18	22	50	Sleeve	160-7128
115V AC	2900	18	22	50	BB	160-7129
240V AC	2900	18	22	50	Sleeve	160-7130
240V AC	2900	18	22	50	BB	160-7131

514929

Mfrs.

Price Each

List No.	Voltage	Order Code
AB1123-HST.GN	115V AC	160-7128
AB1123-HBT.GN	115V AC	160-7129
AB2123-HST.GN	240V AC	160-7130
AB2123-HBT.GN	240V AC	160-7131

### Single Inlet Centrifugal Blower

With EC Motor for Gas-Condensing Heating Systems



- EC centrifugal fan
  - High efficiency
  - Low noise level
  - Vibration-free motor mount
  - Ball bearings
  - Relatively small air flow
  - High increase in static pressure
  - Robust design with die-cast aluminium housing
  - Space-saving application
- H = 178, W = 176, D = 98mm

ebmpapst



For an optimal burning process in condensing boilers, maintaining an exact mixing ratio of gas to air is the prerequisite for low NOx emissions.

The high flow resistance of these upper heating value burners require blowers with steep pressure vs. air volume curve.

"Single inlet centrifugal blower" refers to a blower with a spiral housing that is open on one side.

601242

Voltage

Flow Rate

Mfrs. List No.

Order Code

Price Each

24V DC	115m³/h	RG130/0800-3612	178-1452
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### Single Inlet Blowers - AC & DC



- High performance single inlet fans with an external rotor motor offering the advantage of matched motor and impeller in a compact space saving design
- Motors are IP 44 rated, sealed for life, maintenance free, class B insulation and precision ball bearings
- Impeller is forward curved multi-vane type 'force' fitted for vibration free operation and efficient cooling
- Scroll is made from die-cast aluminium with motor capacitor and terminal block
- May be mounted in any position

ebmpapst

Voltage	Power Input	Air Flow (m³/h)	Dimensions (WxHxD)	Weight	Mfrs. List No.	Order Code
230V ac	44W	155	159 x 168 x 82mm	1.3kg	G2E108-AA01-50	101-1719
230V ac	100W	265	178 x 184 x 98mm	1.8kg	G2E120-AR77-A6	101-1720
230V AC	180W	1030	196 x 332 x 183mm	6.1kg	G4E180GS1101M00	178-1414
230V ac	120W	385	226 x 261 x 130mm	3kg	G2E140-AB17-50	178-1408
230V AC	205W	485	226 x 247 x 130mm	2.5kg	G2E140-AI28-A5	178-1409
230V ac	280W	600	226 x 247.5 x 100mm	2.9kg	G2E160-AD03-50	101-1721
230V AC	315W	530	261 x 294 x 125mm	5.4kg	G2E180AA0301M00	178-1410
12V DC	10W	80	127 x 117 x 76mm	0.9kg	G2G085-AB04-10	178-1412
12V DC	40W	220	174 x 190 x 115mm	2kg	G2G120-AR31-01	178-1413
24V DC	13W	80	127 x 117 x 76mm	0.9kg	G2G085-AB02-01	178-1411

416698

Mfrs.

Price Each

List No.	Order Code
<b>AC Supply</b>	
G2E108-AA01-50	101-1719
G2E120-AR77-A6	101-1720
G4E180GS1101M00	NEW 178-1414
G2E140-AB17-50	NEW 178-1408

Mfrs.

Price Each

List No.	Order Code
<b>AC Supply</b>	
G2E140-AI28-A5	NEW 178-1409
G2E160-AD03-50	101-1721
G2E180AA0301M00	NEW 178-1410
<b>DC Supply</b>	
G2G085-AB04-10	NEW 178-1412
G2G120-AR31-01	NEW 178-1413
G2G085-AB02-01	NEW 178-1411

### Dual Inlet Centrifugal Blower

With EC Motor



- Electronics integrated in the motor
- PWM / Linear input
- Alarm relay
- Maintenance-free ball bearings
- Clockwise impeller rotation
- Galvanised sheet steel housing and impeller



H = 213, W = 270, D = 204mm

The advantage of EC fan is that the electronically commutated external rotor motor is integrated within the cylindrical rotor directly, the installation dimensions are reduced and there is no longer any need for the commonly required belt drive between the motor attached on the outside and the impeller. This reduces the fan dimensions as well as the associated installation effort. The electronically commutated motors are extremely quiet and operate at efficiencies of up to 90%. Thus they attain significantly higher values than most voltage-controlled asynchronous motors, which have typical efficiencies of between 30 % and 60 %. At the same operating point, the power consumption of the EC motors is considerably less. With integrated motor electronics, the EC fans are easily and conveniently controlled. Up to three air flow stages can be programmed in "Constant Flow" mode. If the system resistance changes, for example due to clogged filters, the fan compensates by switching to constant air flow.

601252

Voltage

Flow Rate

Mfrs. List No.

Order Code

Price Each

250V AC	890m³/h	D3G133-BF03-06	178-1504
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### Double Inlet Blowers - AC



- Dual inlet fans with an external rotor motor offering the advantage of matched motor and impeller in a compact space saving design
- Motor are IP44 rated, sealed for life, maintenance free, class B insulation, precision ball bearings and side mounted capacitor and terminal block
- Impeller is forward curved multi-vane type force fitted for vibration free operation and efficient cooling
- Heavy duty body made from galvanised steel
- May be mounted in any position

Voltage	Power Input	Air Flow	Noise	Dimensions (WxHxD)	Mfrs. Weight	Order List No.	Code
230V ac, 50/60Hz	87/100W	435/410	58/57	162x165x146mm	1.5kg	D2E097-BI56-50	101-1707
230V ac, 50/60Hz	87/190W	700/500	58/57	204x213x168mm	3.3kg	D2E133-CI33-87	101-1708
230V ac, 50/60Hz	87/195W	810/600	56/57	204x213x232mm	4.4kg	D2E133-DM27-D8	101-1709
230V ac, 50/60Hz	87/80W	540/510	54/57	171.5x180x215mm	2.6kg	D4E133-AA01-57	101-1718
230V ac, 50/60Hz	87/270W	935/690	62/57	206x219x232mm	4.2kg	D2E146-AP43-62	101-1710
230V ac, 50/60Hz	87/330W	970/690	68/57	206x219x232mm	4.2kg	D2E146-AP47-75	101-1711
230V ac, 50/60Hz	87/245W	1250/1240	64/57	225x241x232mm	4.5kg	D4E160-EG06-11	101-1712
230V ac, 50/60Hz	87/700W	2600/2600	67/57	327x370x287mm	12.1kg	D4E225-BC01-36	101-1715
230V ac, 50/60Hz	87/1230W	3730/3220	75/57	387x392x298mm	16.3kg	D4E250-BA01-12	101-1717

416686

Mfrs.

Price Each

List No.	Order Code
D2E097-BI56-50	101-1707
D2E133-CI33-87	101-1708
D2E133-DM27-D8	101-1709
D4E133-AA01-57	101-1718
D2E146-AP43-62	101-1710
D2E146-AP47-75	101-1711
D4E160-EG06-11	101-1712
D4E225-BC01-36	101-1715
D4E250-BA01-12	101-1717

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**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 ac fans have sleeved bearings

Operating temperature -20°C to +60°C

Dimensions	Power	Air Flow	Noise	Mftrs.	Order Code
H W D Voltage	Watts	cu ft/min	ltrs/sec	List No.	
121 121 37 12V dc	5.5	23.5	11	58	RL90-18/12N 959-9932
121 121 37 24V dc	5	23.5	11	58	RL90-18/14N 959-9940
121 121 37 115V ac	19.5	24.7	11.7	56	RL90-18/00 960-0230
121 121 37 230V ac	20	23.5	11.1	56	RL90-18/50 960-0248
135 135 38 230 dc	22	31.8	15	58	RG90-18/56 960-0876
180 180 40 24 ac	5	51.5	24.3	58	RG125-19/14N 959-9967
220 220 56 12V dc	21	118.9	56.1	66	RG160-28/12 960-0868
220 220 56 24V dc	20	122.9	57.9	66	RG160-28/14N 959-9975
220 220 56 24V DC	64		308m³/h	7.5	RG160-28/14NTD 137-2295
220 220 56 230 dc	47	118.9	56.1	66	RG160-28/56S 960-0884

Dimensions	Price Each
H W D Voltage	Order Code
121 121 37 12V dc	959-9932
121 121 37 24V dc	959-9940
121 121 37 115V ac	960-0230
121 121 37 230V ac	960-0248
135 135 38 230V ac	960-0876
180 180 40 24V dc	959-9967
220 220 56 12V dc	960-0868
220 220 56 24V dc	959-9975
220 220 56 24V DC	137-2295
220 220 56 230V ac	960-0884

**Low Voltage DC**



- 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

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

Voltage	Power	Air Flow	Noise	Mftrs.	Order Code
V dc	Watts	cu ft/min	ltrs/sec	dBa@1m	List No.
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
24	8.7	82.4	140	51	QG030-303/14 178-1416

Length	Voltage	Price Each
V dc	Order Code	
203mm	12	960-1570
260mm	12	960-1589
365mm	12	960-1597
363mm	24	NEW 178-1416

**Crossflow Blower**



FEQ Series



H = 163, W = 471, D = 77mm

- Impeller made of aluminium
- Permanent Split Capacitor (PSC) motor.
- Ball bearings in motor and counter-bearing.
- Extrusion made of aluminum
- End plates finished in black powder coat paint
- Electrical connections via a terminal block
- Grill and filter included
- CE Approved, UL Recognised



Nominal Voltage	Mftrs. List No.	Order Code	Price Each
24V DC	FE1Q-024-060-01	178-1404	
115V AC	FE1Q-115-060-02	178-1405	
230V AC	FE1Q-230-060-04	178-1407	

**Tangential Blower**



H = 163, W = 471, D = 77mm

- Standard product line with impeller diameter 60 mm
- Horizontal or vertical mounting position with motor at the bottom
- Permissible ambient temperature 0 - 60°C
- Insulation class B



Flow Rate	Mftrs. List No.	Order Code	Price Each
120m³/h	QLZ06/1800-2518	178-1444	
150m³/h	QLZ06/1800-2524	178-1445	
120m³/h	QLZ06/2400-3020	178-1446	
170m³/h	QLZ06/2400-3030	178-1447	
230m³/h	QLZ06/3000-3038	178-1448	

Flow Rate	Mftrs. List No.	Order Code	Price Each
125m³/h	QLK45/1800-2518L	178-1449	
220m³/h	QLK45/1818-3030	178-1450	
190m³/h	QLK45/2400-2524L	178-1451	

**Fan Accessories**

**DC Fan Controller**



Temperature Sensitive Speed Control



H = 19.6, W = 71.1, D = 72.4mm

- For temperature sensitive speed control of 12V, 24V and 48V ebm-papst DC compact fans
- Fan speed increases with temperature between 20°C and 40°C or 35°C and 55°C according to selected profile
- Alarm output through open drain connection or relay contact
- Supplied with 2 meter long NTC thermistor
- Suitable for use with most ebm-papst compact fans. Full list available on the data sheet



The DC Fan Controller regulates the electrical power supplied to the fan and so maintain optimum performance and reliability. The fan will run at approximately 15% of maximum speed below the minimum temperature and increase to 100% at the maximum temperature. An alarm output is provided through either an open drain connection or a normally closed relay contact. The alarm is activated if the upper temperature limit is reached or if the controller detects an open or short circuit sensor on the NTC temperature input. Under sensor fail conditions the fan will run up to full speed. If the voltage input limit to the controller or the current output limit to the fan is exceeded, the controller and fan will switch off to prevent risk of damage and an alarm indication is given.

Nominal Voltage	Alarm Output Type	Mftrs. List No.	Order Code	Price Each
12V DC	Open Drain	CDC122055UC-F	178-1491	
12V DC	Relay	CDC242055UC-F	178-1494	
24V DC	Open Drain	CDC122055UR-F	178-1493	
24V DC	Relay	CDC242055UR-F	178-1495	
48V DC	Open Drain	CDC482055UC-F	178-1496	
48V DC	Relay	CDC482055UR-F	178-1497	

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## Fan Accessories - continued

### DC Fan Controller - Fan Powered

Temperature Controller



H = 8, W = 45, D = 45mm

- For temperature sensitive speed control of 12V, 24V and 48V ebmpapst DC fans
- Fan speed increases with temperature between 20°C and 40°C or 35°C and 55°C according to profile
- Alarm output through open drain connection
- Supplied with 2 meter long NTC thermistor
- **DCP** Controller is designed to operate ebm-papst 4 wire PWM controlled fans
- **EC** Controller is designed to operate ebm-papst EC fans

ebmpapst

New

The controller will operate from the same supply voltage as the fan and very low power consumption means that there is no need for a dedicated power supply. The unit is supplied with one pre-set temperature profile that will control the fan from 15 to 100% speed. The Fan Controller also monitors the Tacho output from the fan and generates an alarm output if a fan fail is detected. The Controller is fitted with an open drain fail safe alarm output as standard. This alarm is activated if a fan fail is detected or if the upper temperature limit is reached. The controller will also generate an alarm if it detects either an open or short circuit on the NTC temperature input. During alarm conditions the fan will be run at full speed.

555325

Nominal Voltage	Temperature Profile	Mftrs. List No.	Order Code	Price Each
<b>DCP Controller</b>				
12V DC	20°C to 40°C	CPC122040SC-F	178-1485	●
24V DC	20°C to 40°C	CPC242040SC-F	178-1486	●
48V DC	20°C to 40°C	CPC482040SC-F	178-1487	●
12V DC	35°C to 55°C	CPC123555SC-F	178-1488	●
24V DC	35°C to 55°C	CPC243555SC-F	178-1489	●
48V DC	35°C to 55°C	CPC483555SC-F	178-1490	●
<b>EC Controller</b>				
10.2V DC	20°C to 40°C	CEC102040MC-F	178-1498	●
10.2V DC	35°C to 55°C	CEC103555MC-F	178-1499	●

### Panel Fan Mount - Universal

Silicone Rubber



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

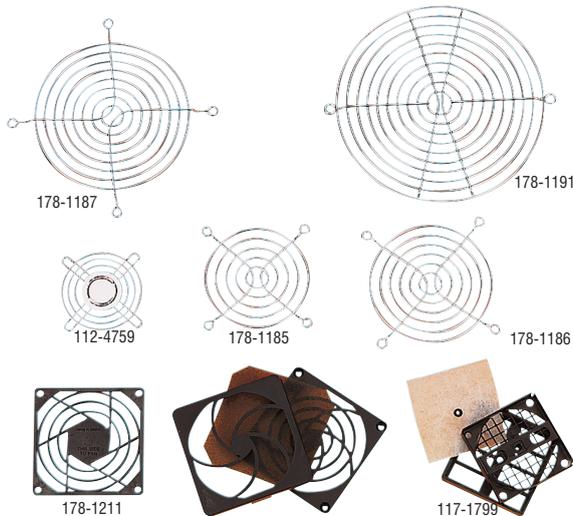
- Universal fan fixer to suit any fan with fixing holes from 3.2 - 4.5mm Dia.
- Will fix fan with thickness of 10 to 51mm
- Will fix fan to panel with thickness of 1 to 1.5mm
- Anti-vibration
- Fast and easy to use - No tools required

449780

Mftrs. List No.	Order Code	Price Per Pack of 4
MCFMM-1	129-3012	●

### Finger Guards and Filters

multicomp



178-1187

178-1191

112-4759

178-1185

178-1186

178-1211

117-1799

204347

Mftrs. List No. Order Code

<b>Finger Guards - Silver Metal</b>				
25mm	MCSC25-W1	NEW	178-1178	●
30mm	MCSC30-W1	NEW	178-1179	●
35mm	MCSC35-W1	NEW	178-1180	●
40mm	MCSC40-W2	NEW	178-1181	●
50mm	MCSC50-W2	NEW	178-1183	●

Mftrs. List No. Order Code Price Each

<b>Finger Guards - Silver Metal</b>				
50/62mm	MCSC100-W25	NEW	181-2568	●
60mm	MCSC60-W2	NEW	178-1184	●
80mm	MCSC80-W2	NEW	178-1185	●
92mm	MCSC92-W2	NEW	178-1186	●
119mm	MCSC120-W5	NEW	178-1187	●
<b>Disc</b>				
120mm - Centre	MCSC120-W6	NEW	178-1188	●
120mm	MCSC130-W1	NEW	178-1189	●
127mm	MCSC130-W3	NEW	178-1190	●
160mm	MCSC162-W5	NEW	178-1191	●
254mm	MCSC1000-W1	NEW	178-1192	●

<b>Finger Guards - Black Metal</b>				
25mm	MCSC25-W1B	NEW	178-1193	●
30mm	MCSC30-W1B	NEW	178-1195	●
35mm	MCSC35-W1B	NEW	178-1196	●
40mm	MCSC40-W2B	NEW	178-1197	●
50mm	MCSC50-W2B	NEW	178-1198	●
60mm	MCSC60-W2B	NEW	178-1199	●
80mm	MCSC80-W2B	NEW	178-1201	●
92mm	MCSC92-W2B	NEW	178-1202	●
120mm	MCSC120-W5B	NEW	178-1203	●
120mm	MCSC120-W6B	NEW	178-1204	●
127mm	MCSC130-W1B	NEW	178-1205	●
150mm	MCSC162-W5B	NEW	178-1206	●
254mm	MCSC1000-W1B	NEW	178-1207	●

<b>Finger Guards - Black Plastic</b>				
40mm	MCSC40-P10	NEW	178-1208	●
60mm	MCSC60-P10	NEW	178-1209	●
80mm	MCSC80-P10	NEW	178-1210	●
80mm - Thin	MCSC80-P40	NEW	178-1211	●
92mm	MCSC92-P10	NEW	178-1213	●
119mm	MCSC120-P10	NEW	178-1214	●
150mm	MCSC162-P10	NEW	178-1215	●
172mm	MC09651-G		162-9425	●

<b>Filters</b>				
60/62mm	PMFA 60L		117-1799	●
80mm	PMFA 80		117-1791	●
119mm	PMFA120		117-1796	●
160mm	PMFA160		117-1808	●

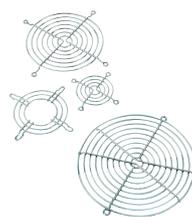
Price Per Pack

<b>Replacement Filters (5 Per Pack)</b>				
60/62mm	FP 60L		117-1801	●
80mm	FP80		117-1797	●
119mm	FP120		117-1798	●
160mm	FP160		117-1809	●

### Metal Finger Guards

ebmpapst

- Metal finger guards manufactured from plated steel



311650

Mftrs. List No.	Height	Width	Suitable for series	Order Code	Price Each
LZ29-1	40	40	400	117-1814	●
LZ31	50	50	500	137-2292	●
LZ28CP	60	60	600	117-1815	●
LZ22K	80	80	8300, 8400, 8500, 8800,	117-1816	●
LZ23K	92	92	3300, 3400, 3600, 3900	117-1817	●
LZ30K	120	120	4100, 4200, 4300, 4400, 4500, 4600, 4800, 9900	117-1818	●
LZ35	127	127	3200, 5900	117-1819	●
LZ25	135	135	5100, 5600	117-1803	●
LZ36	150	150	7000, 7100, 7200, 7400, 7800	117-1810	●
LZ26K	172	172	6000, 6200	117-1812	●
LZ53	183	183	5312, 5314	169-8227	●

Over 500 000 products available online

GO

**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 Dia. (Inside)	Fan Size (mm)	NMB Fan	Mftrs. 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

Mftrs. List No.	Order Code	Price Each
<b>Finger Guards</b>		
055025	154-5841	
055023	154-5842	
055018	154-5843	
055013	154-5844	
055015	154-5845	
055010	154-5846	
<b>Mounting Clip</b>		
512020	154-5847	

**Filter Assemblies**



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

Fan Size	Mftrs. List No.	Order Code	Price Each/Per Pack
<b>Filter Assemblies</b>			
40mm	MCSC40-P15/45	NEW 178-1166	
60mm	MCSC60-P15/45	NEW 178-1167	
80mm	MCSC80-P15/45	NEW 178-1168	
92mm	MCSC92-P15/45	NEW 178-1171	
119mm	MCSC120-P15/45	NEW 178-1172	
154mm	MC09650-F/45	162-9431	
<b>Replacement Filters (5 Per Pack)</b>			
40mm	MCSC40-M45	NEW 178-1173	
60mm	MCSC60-M45	NEW 178-1174	
80mm	MCSC80-M45	NEW 178-1175	
92mm	MCSC92-M45	NEW 178-1176	
119mm	MCSC120-M45	NEW 178-1177	
150mm	MC09650-M/45	162-9432	

**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 down 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%

Filter Assemblies	Mftrs. List No.	Order Code	Price Each/Per Pack
80mm	PMFA80T	117-1820	
90mm	PMFA90	NEW 178-1415	
120mm	PMFA120T	117-1821	
<b>Replacement Filters</b>			
80mm x 5 filters	FP80T	117-1822	
120 x 5 filters	FP120T	117-1825	



**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)	Mftrs. 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

**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.

Finish	Mftrs. List No.	Order Code	Price Each
<b>60mm Fan Size</b>			
Silver	MCAFM-60B	NEW 178-1216	
Black	MCAFM-60M	NEW 178-1217	
Stainless Steel	MC06250-SS	162-9435	
<b>80mm Fan Size</b>			
Silver	MCAFM-80M	NEW 178-1218	
Black	MCAFM-80B	NEW 178-1219	
Stainless Steel	MC06325-SS	162-9439	
<b>92mm Fan Size</b>			
Silver	MCAFM-92M	NEW 178-1220	
Black	MCAFM-92B	NEW 178-1221	
Stainless Steel	MC06362-SS	162-9443	
<b>120mm Fan Size</b>			
Silver	MCAFM-120M	NEW 178-1222	
Black	MCAFM-120B	NEW 178-1223	
Stainless Steel	MC06450-SS	162-9446	



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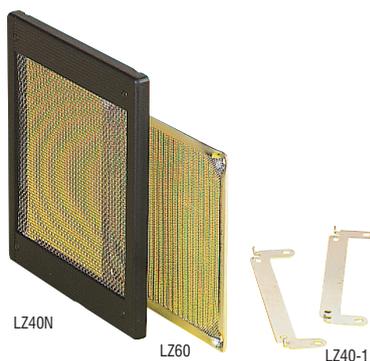
See inside front cover

See inside front cover

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Fan Accessories - continued

Metal Mesh Filter



Fan Mount

- Designed for 120mm fans
- 117-1813 supplied complete with bracket (LZ40-1)

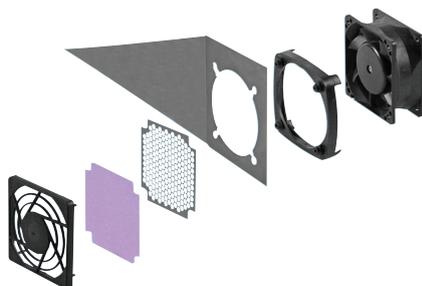
- Black fibre glass reinforced plastic bezel with inserted stainless steel wire mesh

204361

Mfrs. List No.	Order Code	Price Each
LZ40N (With LZ40-1)	117-1813	
LZ60	142-6219	

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	Price Each
<b>Fan Vibration Sleeves</b>		
40mm	132-6544	
60mm	132-6546	
80mm	132-6547	
92mm	132-6548	
119mm	132-6549	
<b>Plastic Finger Gard</b>		
40mm	132-6550	
60mm	132-6551	
80mm	132-6552	
92mm	132-6553	
119mm	132-6554	
<b>EMI Filter Shields</b>		
40mm	132-6555	
60mm	132-6556	
80mm	132-6558	
92mm	132-6559	
119	132-6560	
<b>Fan Filter Media</b>		
40mm	132-6561	
60mm	132-6562	
80mm	132-6563	
92mm	132-6564	
119 mm	132-6565	
<b>Fan Fixing Rivets</b>		
Rubber	132-6566	

Passive Filter

Power Factor Correction



- Passive power factor correction filter
- 230V ac - 50/60 Hz
- 3 Amps



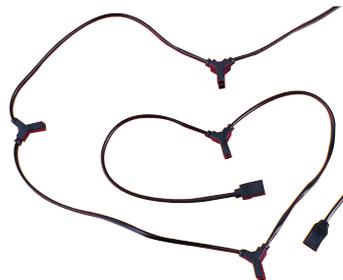
Harmonic distortion is more prevalent today with the rise in the use of electronic equipment. All electronic equipment that converts AC to DC will distort the mains supply to some degree. Passive power factor correction can correct up to 0.8 depending on the load.

H = 40.3, W = 65, D = 54mm

601258

Voltage Supply	Current Draw	Mfrs. List No.	Order Code	Price Each
230V ac	3A	920-CON0085-30	178-1505	

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	
610mm single fan AC lead, UL approved	LZ130-1M	960-0680	
1500mm AC lead, single head	LZ120/1.5	960-0663	
1500mm AC lead, single head + earth lead	LZ120E/1.5	960-0671	

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