



IP Fan Introduction

Protechnic Electric CO.,LTD

2013/8/1

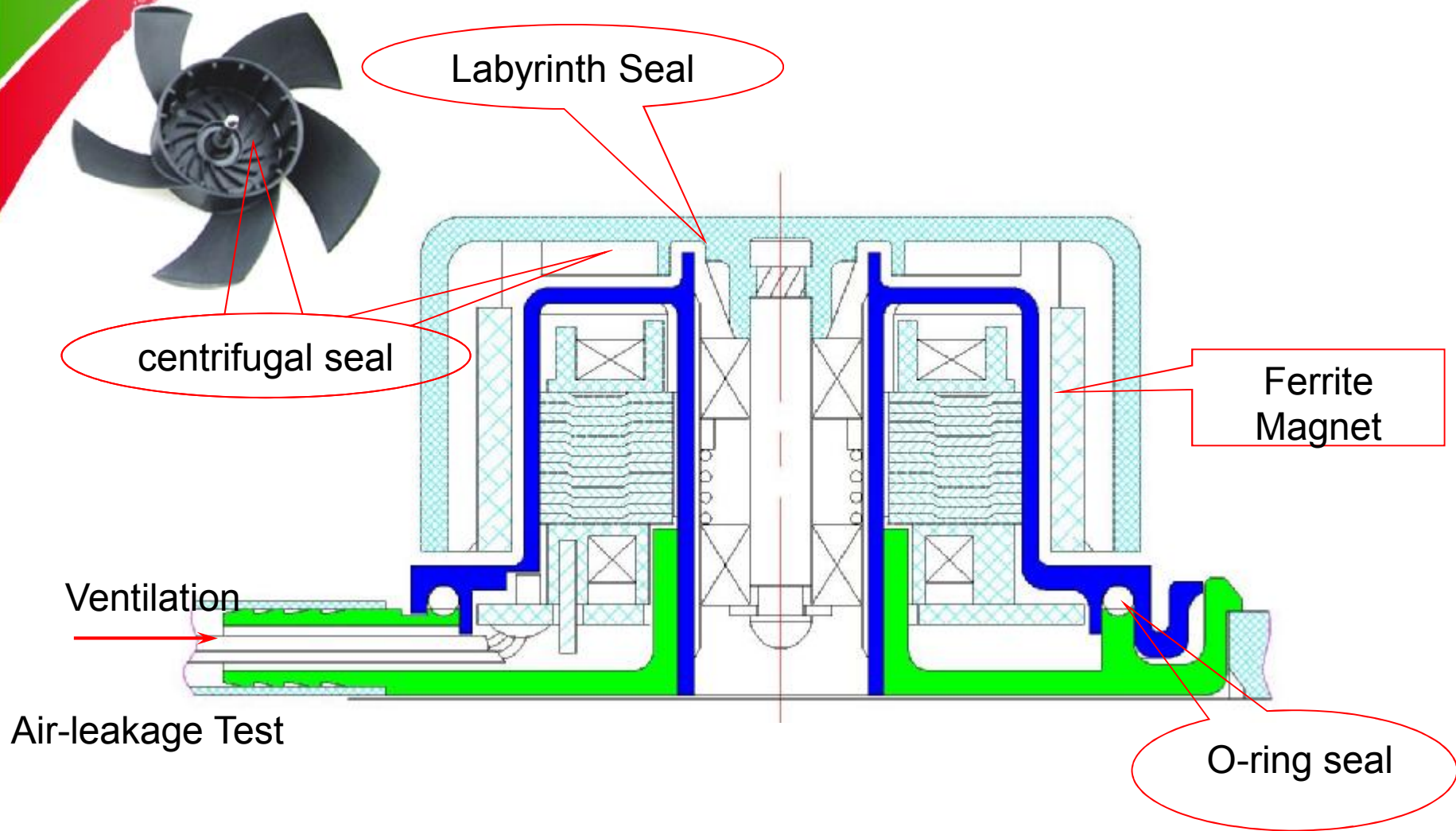


Old type waterproof Fan

- **Coating Process (Vacuum Deposition):** stator and PCB coating process are high risky for components, and lower corrosion-resistant
- **Glues Pouring Process:**
Fully glues feed in HUB within stator and PCB, this process is complicated and bubble remain in colloid was worse isolation

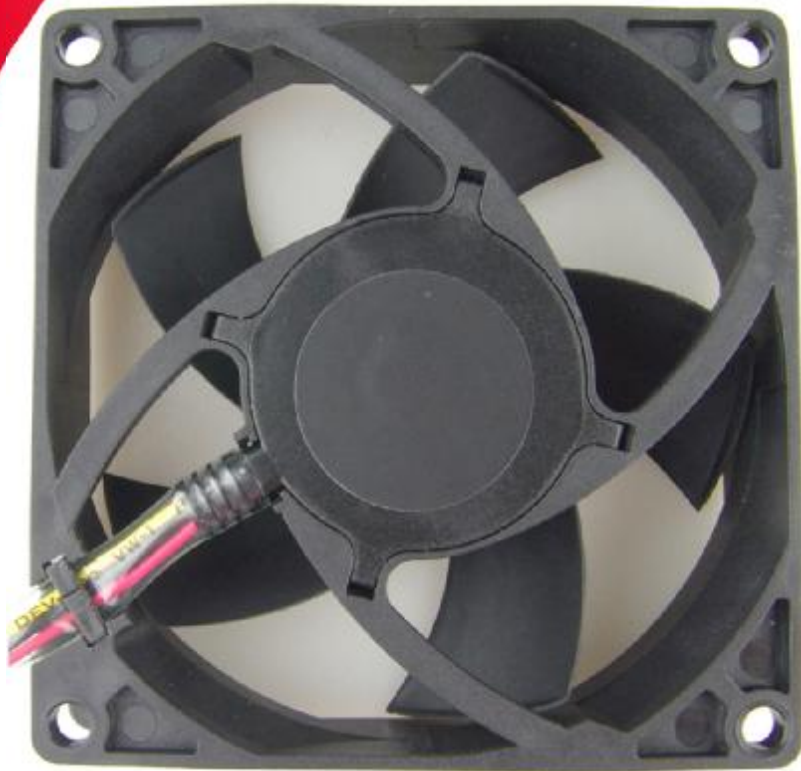


Structure



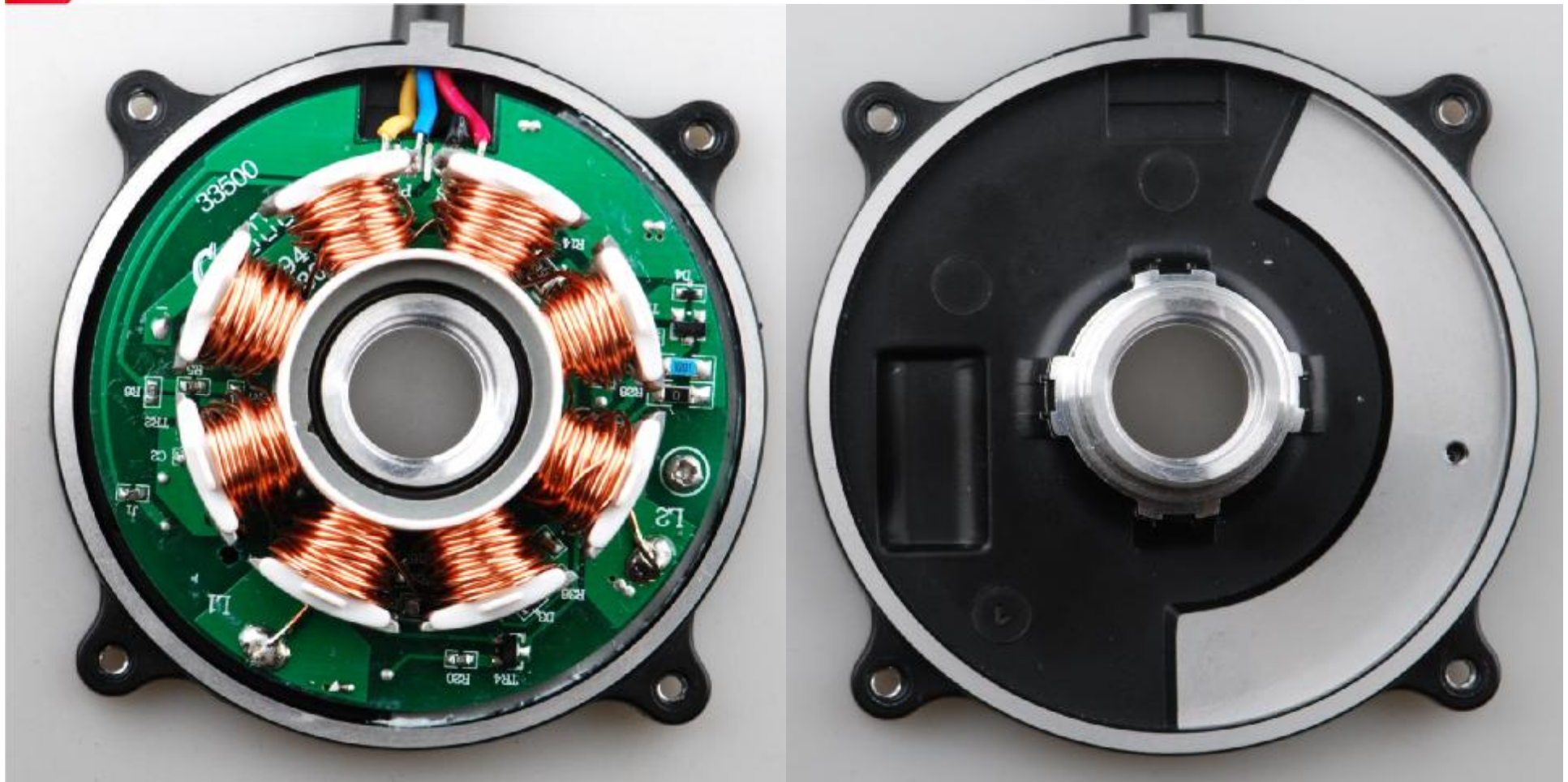


Finished Product & Parts





Design for high speed IP fan





Dynamic sealing

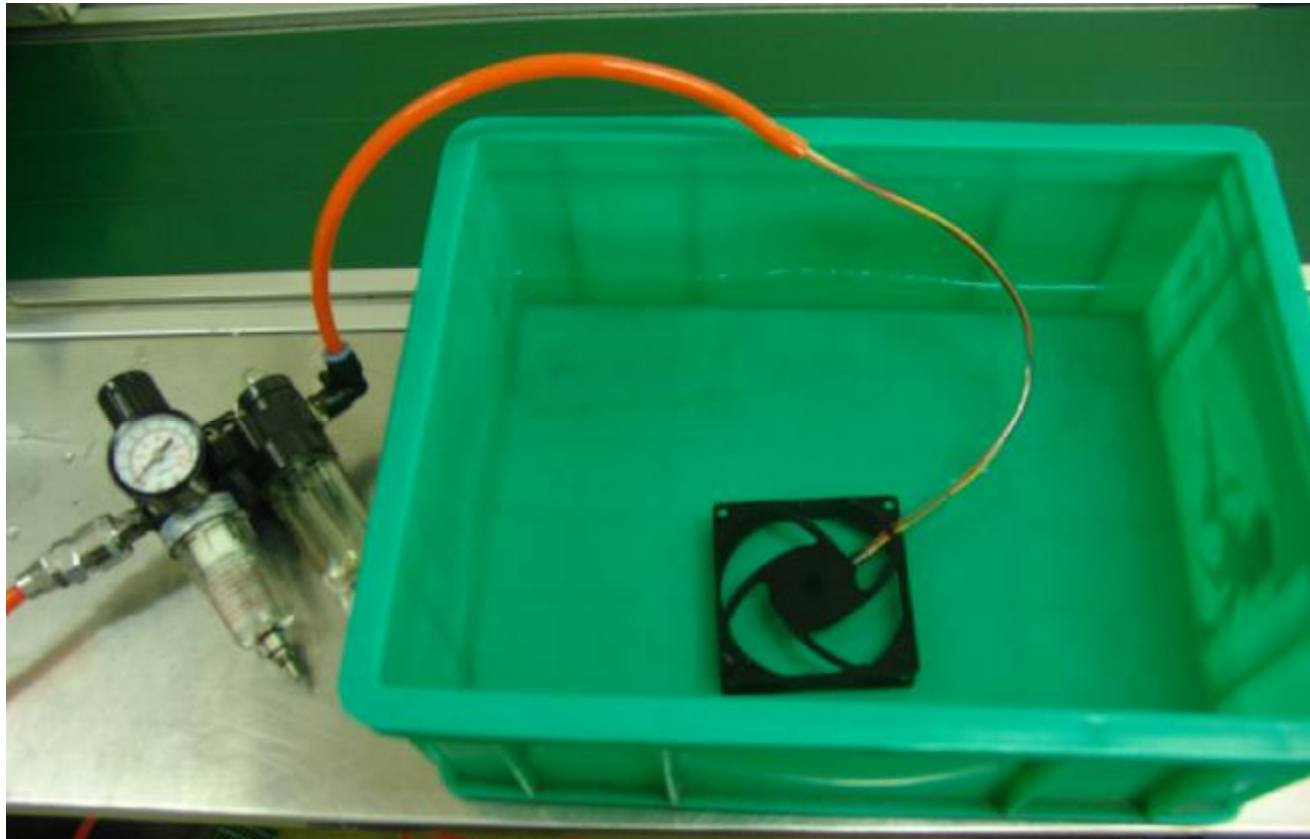




Test Result Verify

IEC 68-2-17 Test Qf :Sealing

Pressure: 20KPa





Test Result Verify

IEC 68-2-18 Test Rc: Immersion

Test duration: 6 months

Passed





Test Result Verify

IEC 68-2-11 Test Ka: Salt mist

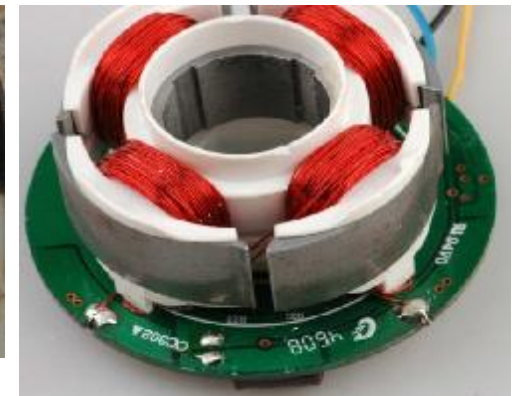
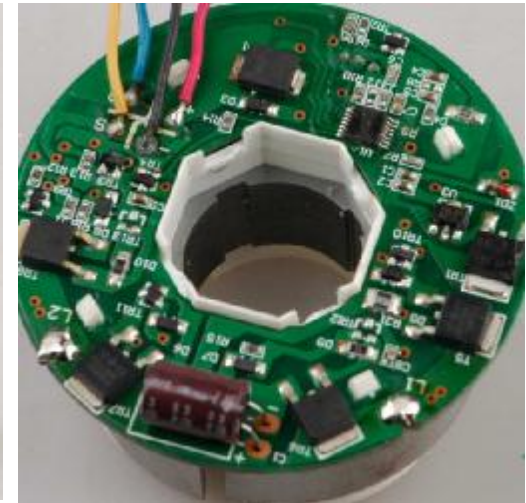
Test duration: 6 months

Passed





Test Result





Test Result Verify

Dust test

Test duration: 3 months

Passed





Certificated by TUVRheinland on June 12th, 2008



IP fan (axial)

60x60x25mm

80x80x25mm

92x92x32mm

120x120x38mm

172x172x51mm

IP fan (centrifugal)

ψ175x69mm

ψ138x37mm

180x180x40mm



60x25

MGT6012HB-O25 series B

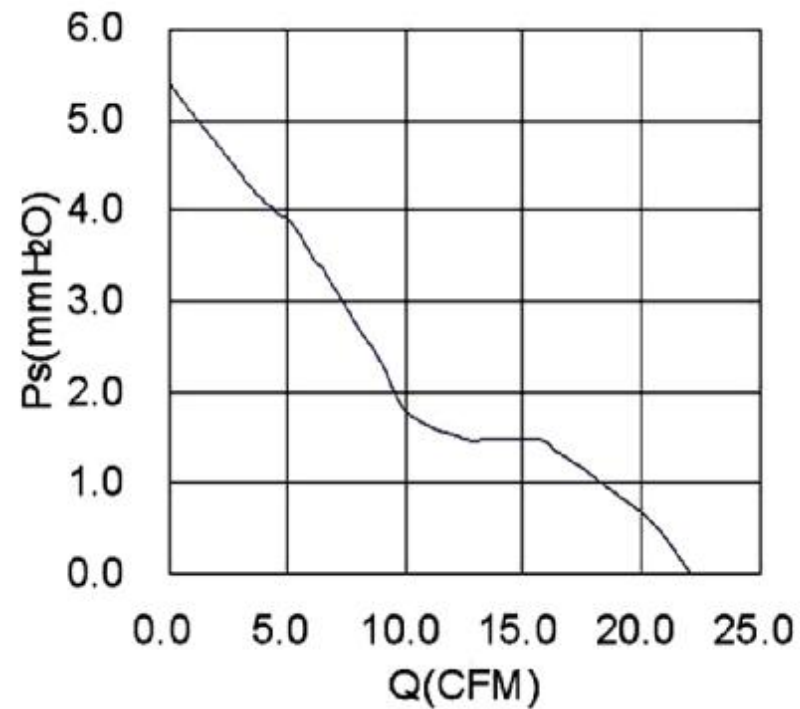


- 60mm x 60 mm
- Height : 25mm
- Ingress protection rating: IP 68 (IEC60529)
- Weight : 68g



Performance

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)6012HB-(2)25	12	0.626	22.08	5.40	0.213	4,200	0.17	2.04	33.3	68





80x25

MGT8012XB-O25 series D

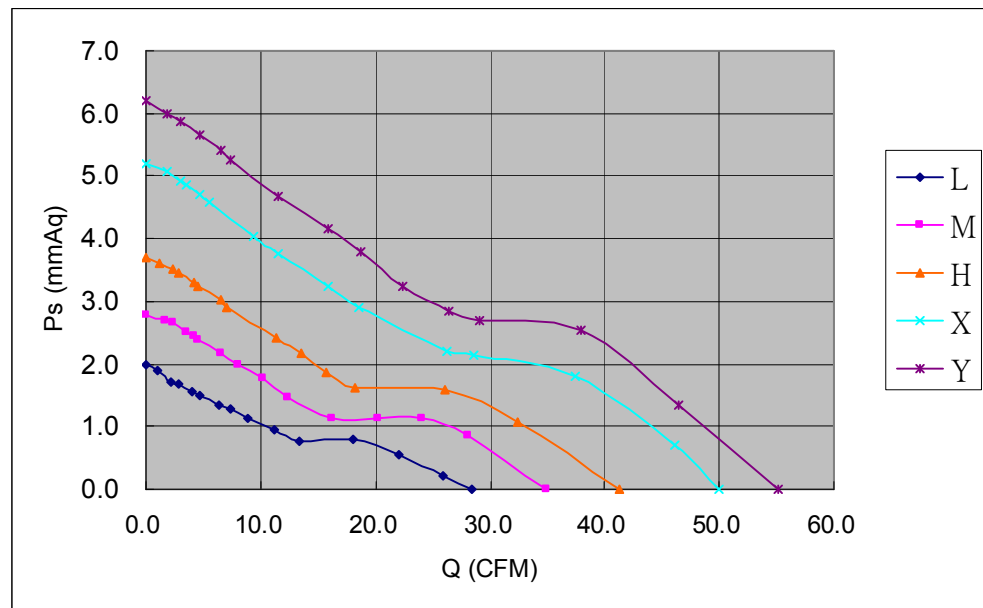
- 80mm x 80 mm
- Height : 25mm
- Ingress protection rating: IP 68 (IEC60529)
- Weight : 85g





Performance

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmA q)	(inchA q)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)8012LB-(2)25	12	0.806	28.46	1.98	0.078	2,100	0.12	1.44	23.1	85
MG(1)8012MB-(2)25	12	0.987	34.85	2.79	0.110	2,500	0.15	1.80	29.0	85
MG(1)8012HB-(2)25	12	1.171	41.34	3.71	0.146	3,000	0.24	2.88	33.2	85
MG(1)8012XB-(2)25	12	1.413	49.89	5.19	0.204	3,600	0.39	4.68	37.3	85
MG(1)8012YB-(2)25	12	1.562	55.13	6.21	0.244	3,900	0.42	5.04	39.2	85





92x32

MGT9212LB-O32

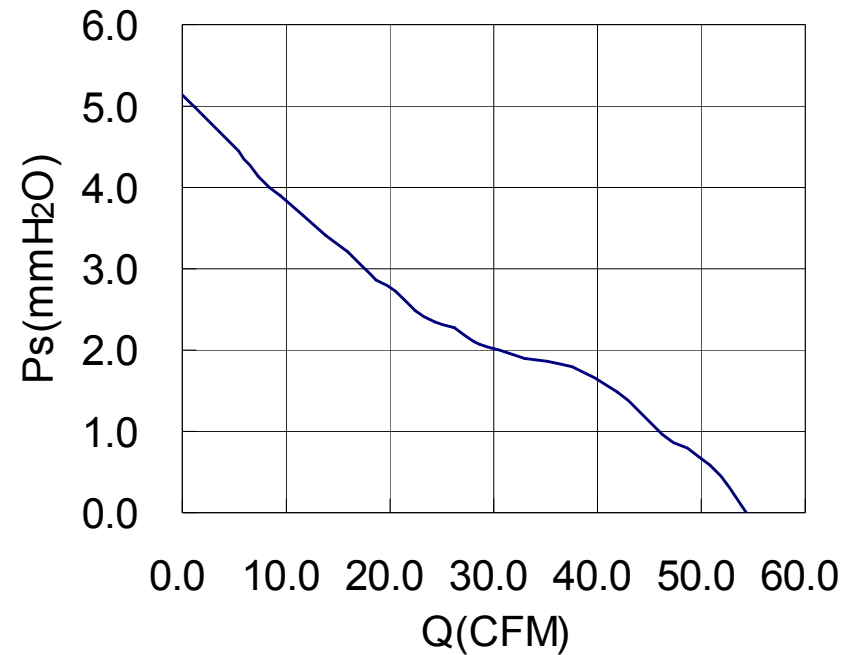


- 92mm x 92 mm
- Height : 32mm
- Ingress protection rating:
IP 68 (IEC60529)
- Weight : 168g



Performance

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)9212LB-(2)32	12	1.542	54.43	5.15	0.203	3,000	0.20	2.40	36.5	168





120x38

MGT12024UB-O38

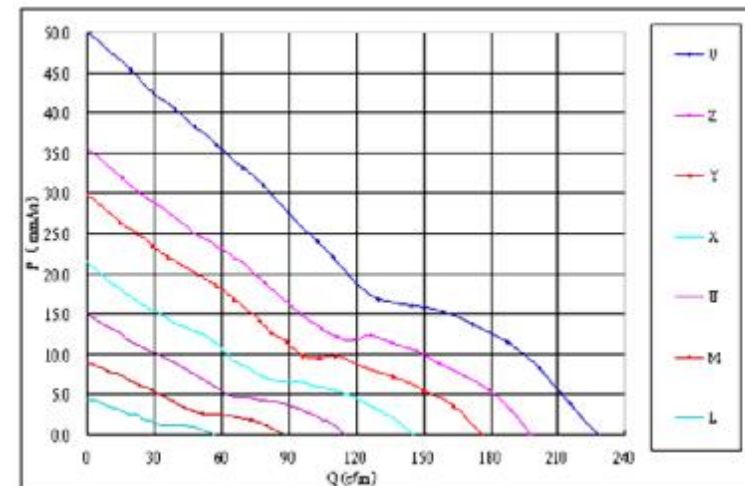


- 120mm x 120 mm
- Height : 38mm
- Ingress protection rating:
IP 68 (IEC60529)
- Weight : 415g



Performance

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)12024LB-(2)38	24	1.612	56.91	4.49	0.177	2,000	0.22	5.28	36.0	415
MG(1)12024MB-(2)38	24	2.458	86.77	9.08	0.357	3,000	0.34	8.16	46.1	415
MG(1)12024HB-(2)38	24	3.255	114.91	15.07	0.593	4,000	0.43	10.32	54.5	415
MG(1)12024XB-(2)38	24	4.127	145.67	21.5	0.846	5,000	0.70	16.80	60.7	415
MG(1)12024YB-(2)38	24	5.001	176.53	29.9	1.177	6,000	1.05	25.2	64.9	415
MG(1)12024ZB-(2)38	24	5.603	197.78	35.7	1.406	6,800	1.40	33.6	67.8	415
MG(1)12024UB-(2)38	24	6.459	228.00	50.00	1.969	7,500	1.75	42.00	70.0	415





172x51

MGT1724YB-O51

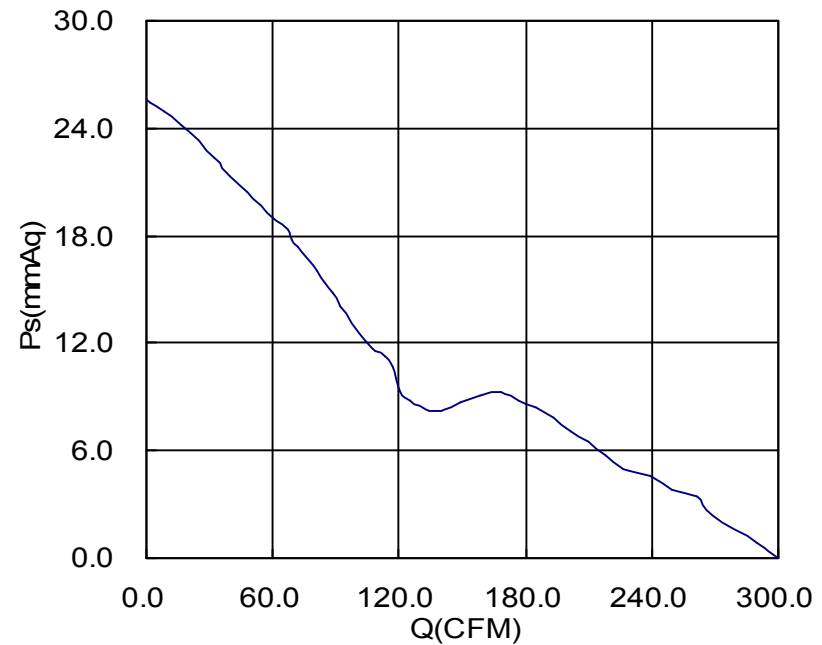


- 172mm x 172 mm
- Height : 51mm
- Ingress protection rating: IP 68 (IEC60529)
- Weight : 718g



Performance

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MG(1)1724YB-(2)51	24	8.498	299.7	25.6	1.010	4,000	2.00	48.0	60.0	718





$\Phi 175 \times 69$

MBT1748MB-O69

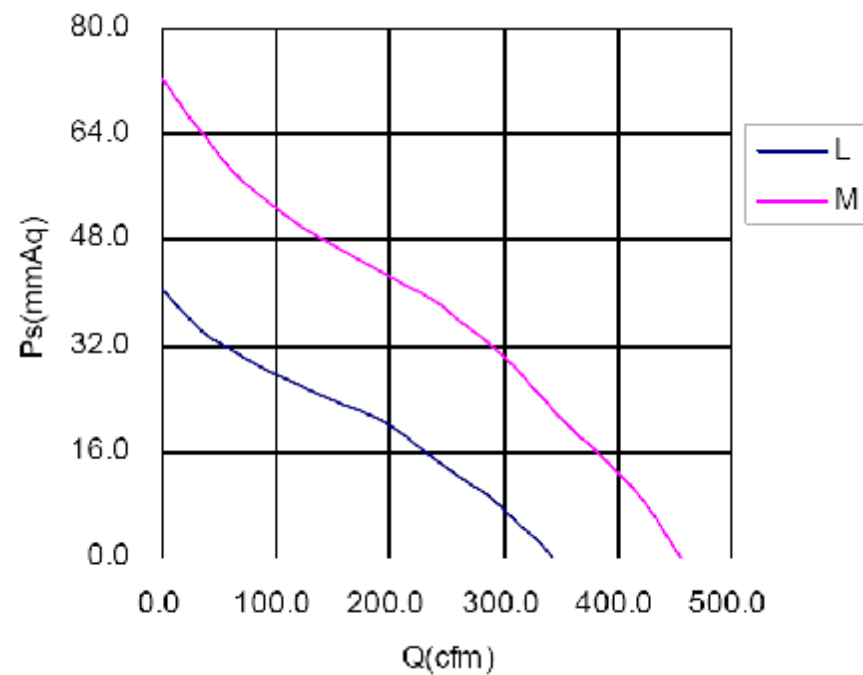


- $\Phi 175\text{mm}$
- Height : 69mm
- Ingress protection rating:
IP 68 (IEC60529)
- Weight : 920g



Performance

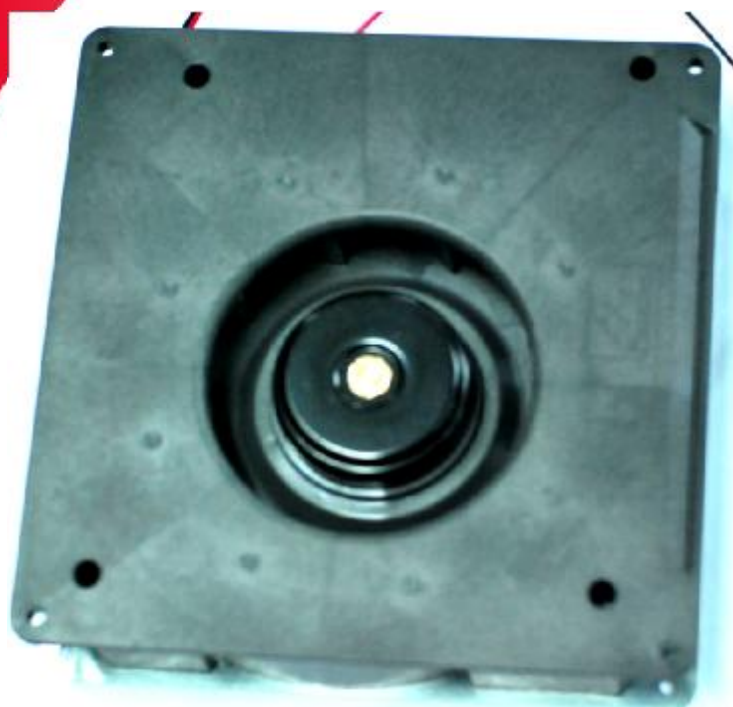
Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MBT1748MB-O69	48	12.941	456.8	72.4	2.85	4,000	2.4	115.2	71.9	920





180x40

MBT18024HB-O40

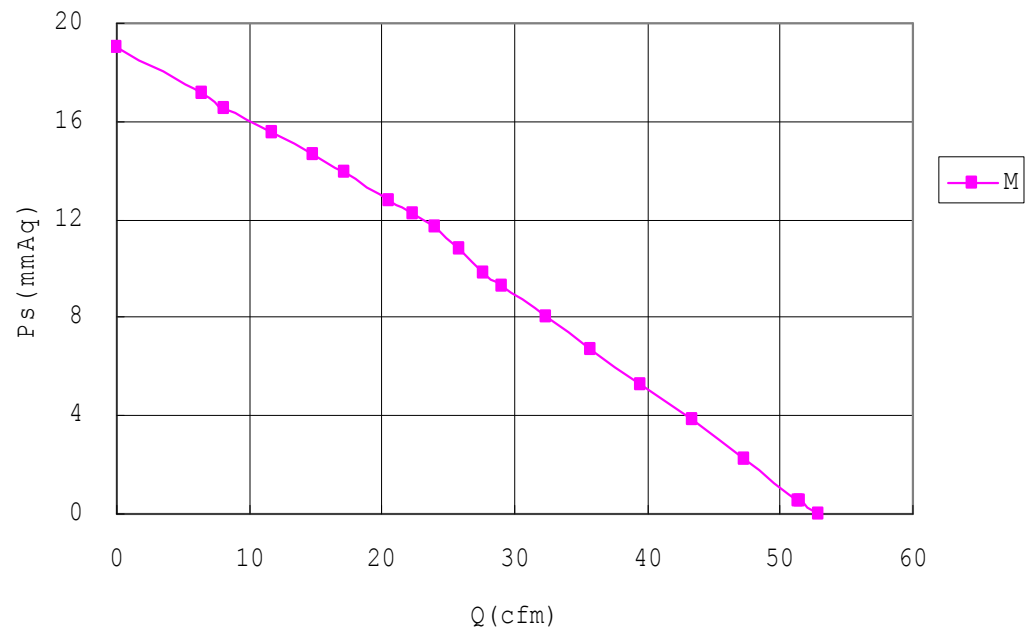


- 180 x 180 mm
- Height : 40 mm
- Ingress protection rating:
IP 68 (IEC60529)
- Weight : 830g



Performance

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MBT18024MB-O40	24	1.5	52.9	19	0.75	2,200	0.2	4.8	52	830





$\Phi 138 \times 37$

MBT13824HB-O37

- $\Phi 138$ mm
- Height : 37 mm
- Ingress protection rating:
IP 68 (IEC60529)
- Weight : 370g





Performance

Item No.	Operating Voltage	Maximum Air Flow		Maximum Air Pressure		Speed	Rated Current	Input Power	Noise	Weight
	(V)	(CMM)	(CFM)	(mmAq)	(inchAq)	(rpm)	(A)	(W)	dB(A)	(g)
MBT13824MB-O37	24	1.5	52.9	19	0.75	2,200	0.2	4.8	52	370

Air flow/Static-Pressure:

