

IP Fan Introduction

Protechnic Electric CO.,LTD

2010/1/18

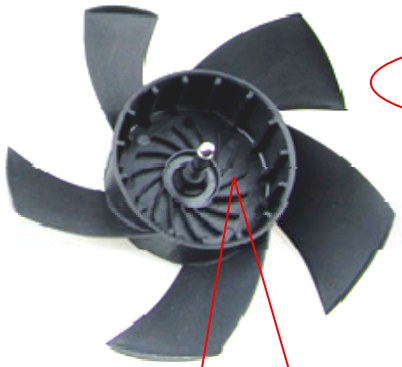
Old type waterproof Fan

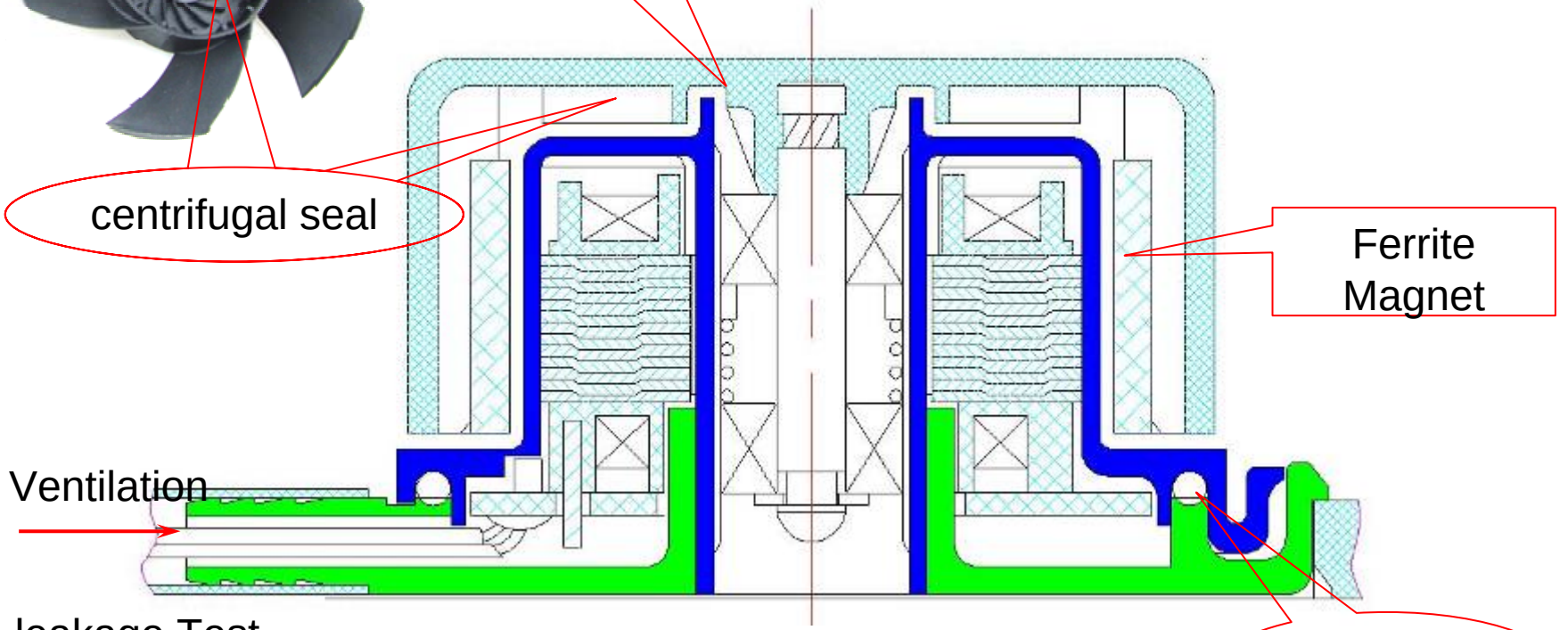
- Coating Process (Vacuum Deposition): stator and PCB coating process are high risky for components, and lower corrosion-resistant

- Glues Pouring Process：

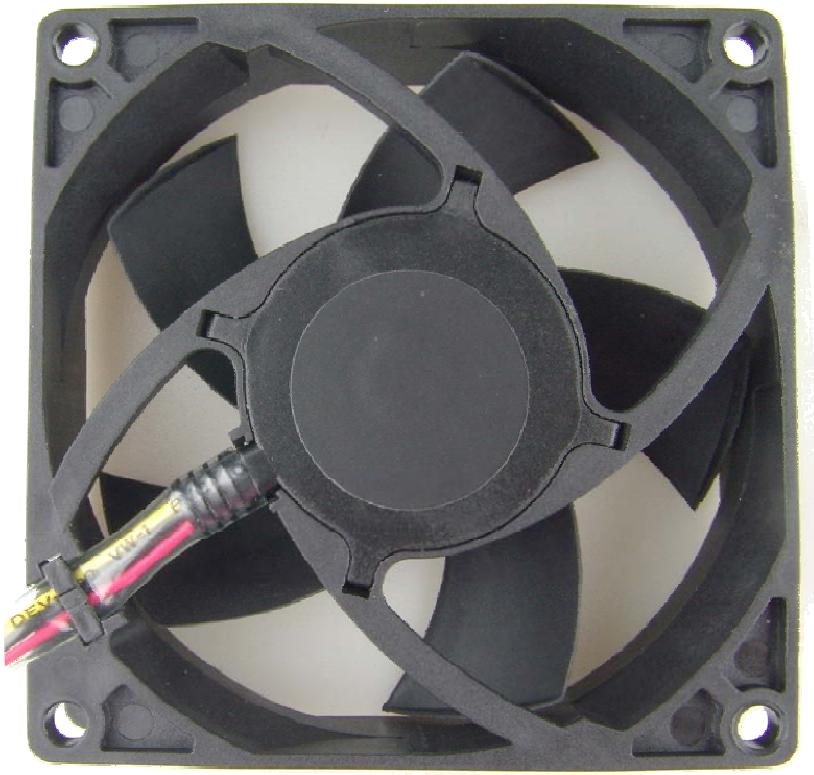
  Fully glues feed in HUB within stator and PCB, this process is complicated and bubble remain in colloid was worse isolation

Structure

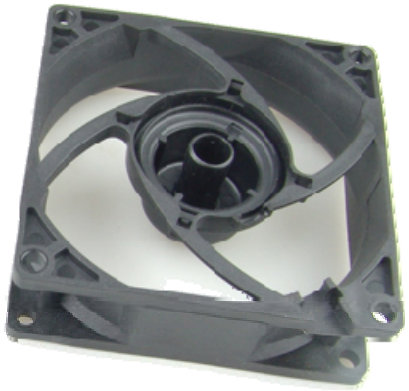



Labyrinth Seal
centrifugal seal
Ferrite
Magnet
Ventilation
Air-leakage Test
O-ring seal

Finished Product & Parts





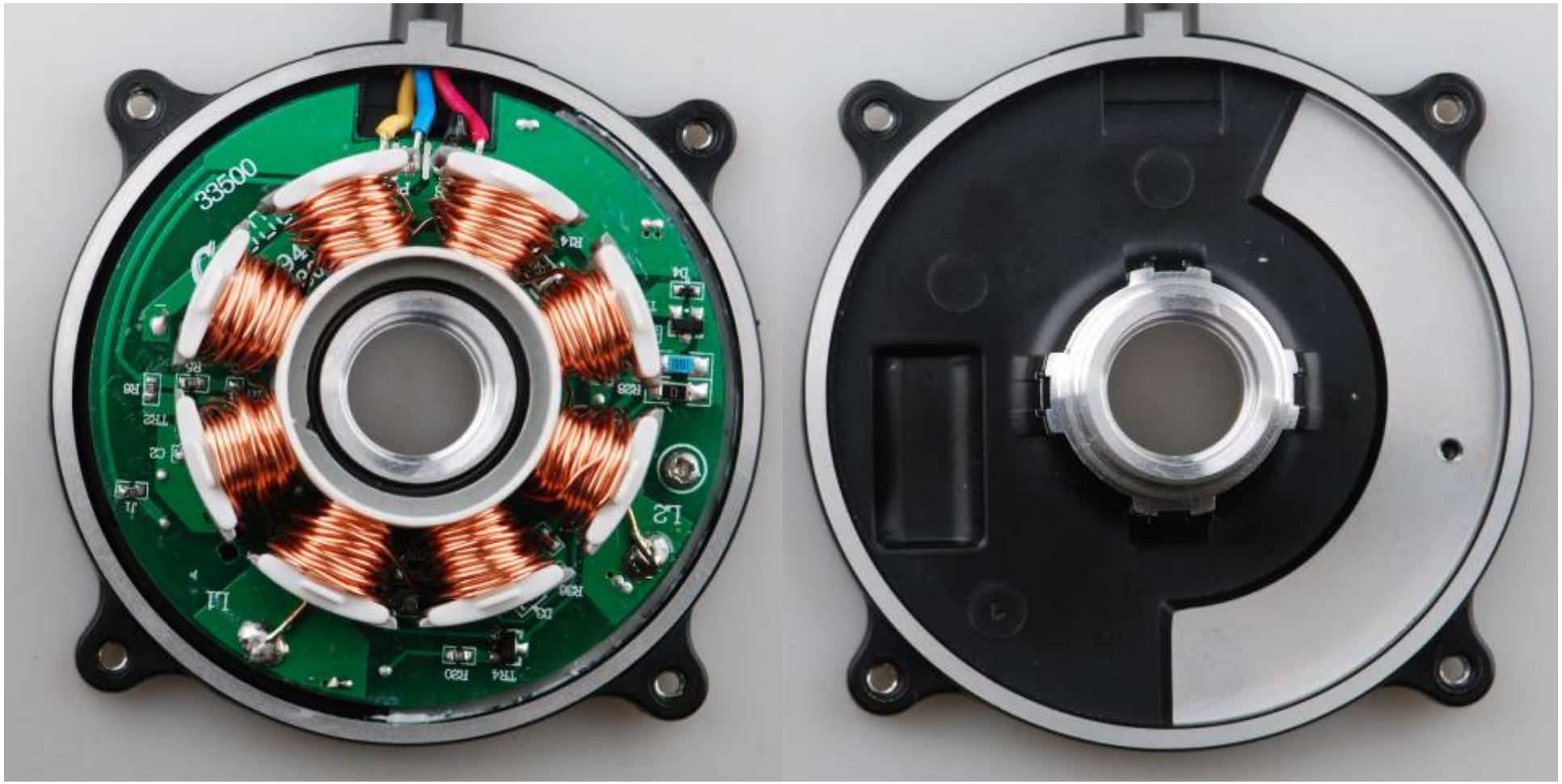




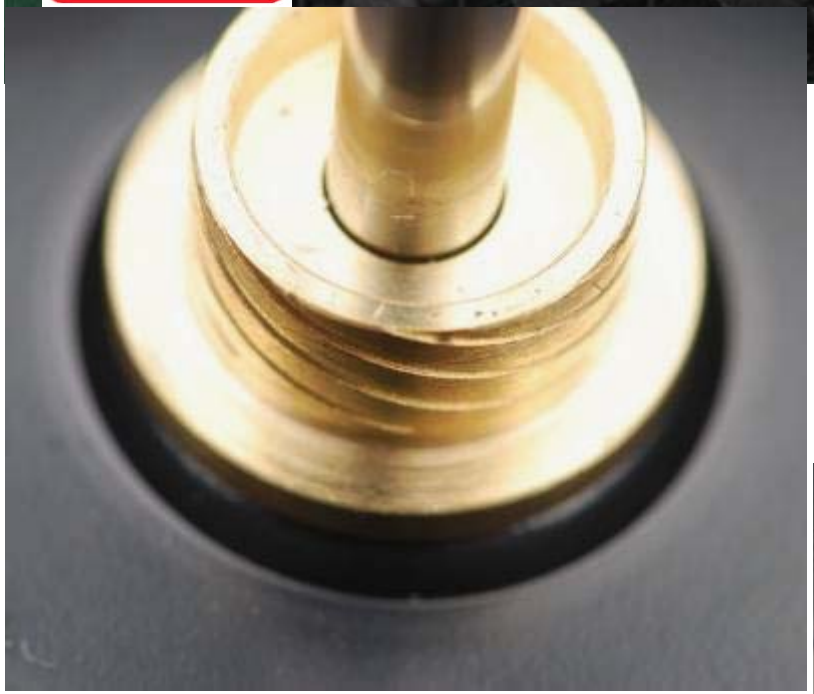




Design



Dynamic sealing

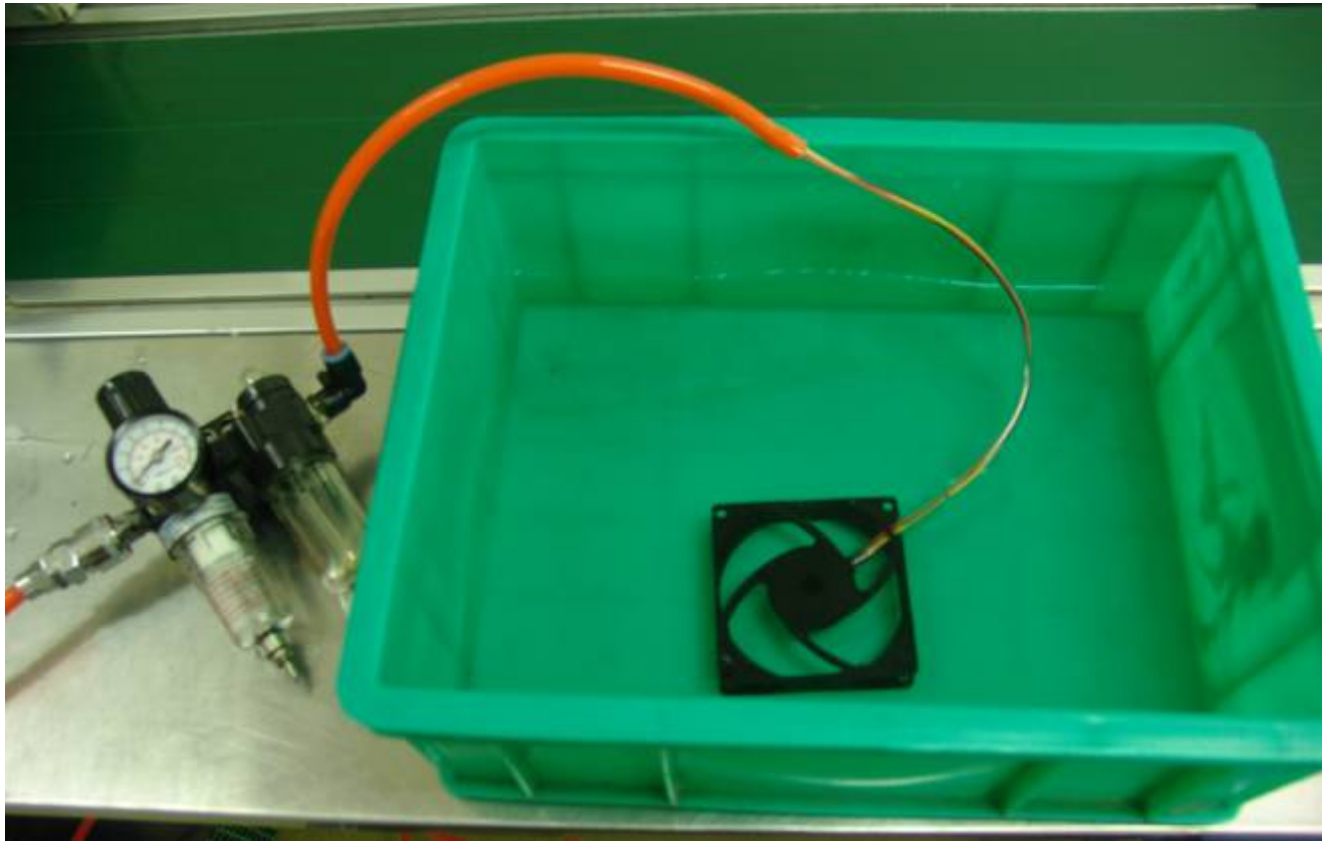




Test Result Verify

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

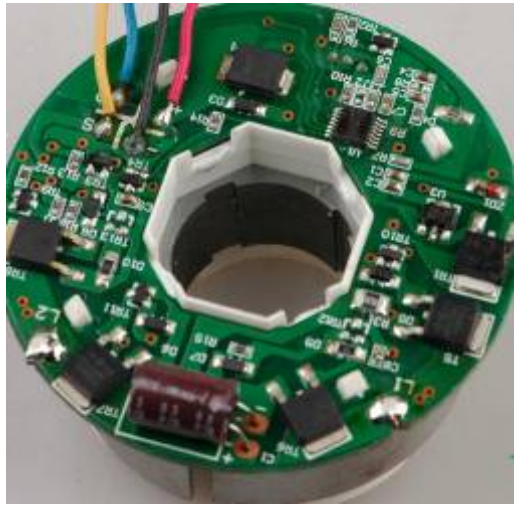




Test Result

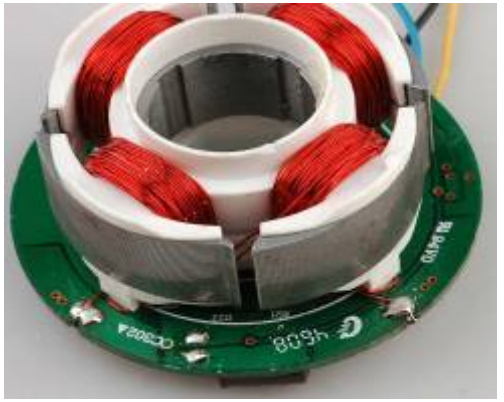










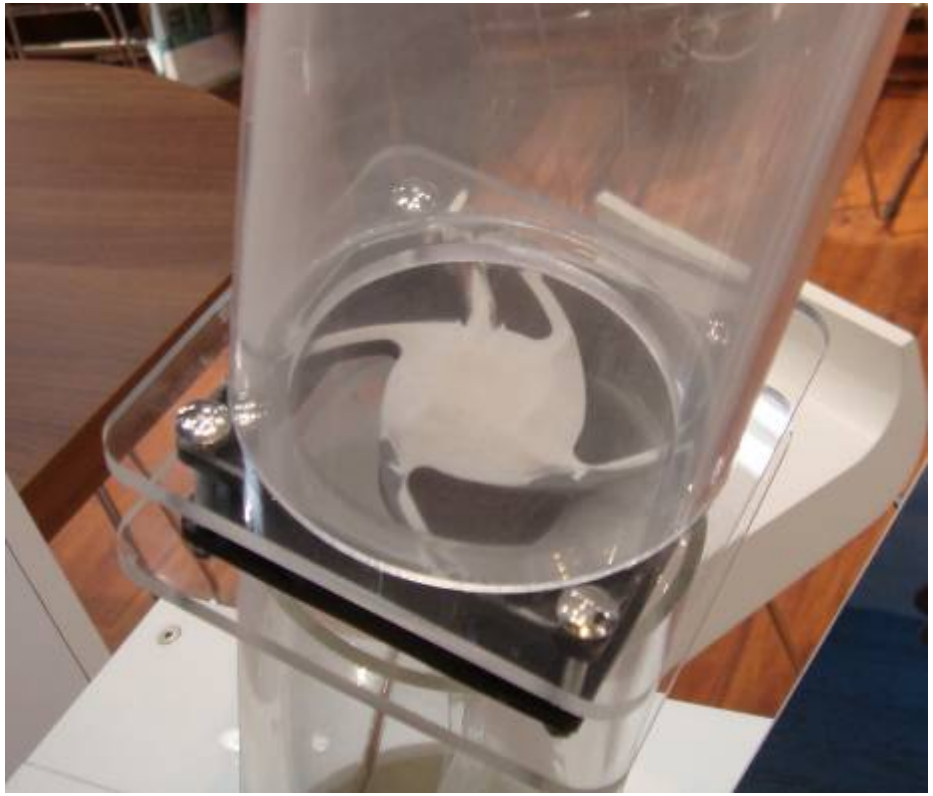


Test Result Verify

Dust test

Test duration: 3 months

Passed



Test Result Verify

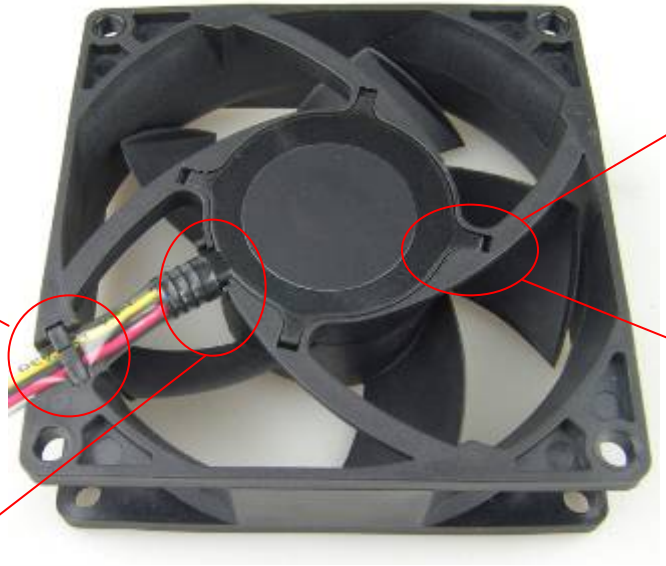
Bearing was no corrosion to happen in 3 month/5% salt spray test.



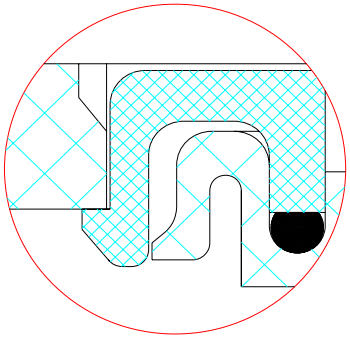
Reliable Design

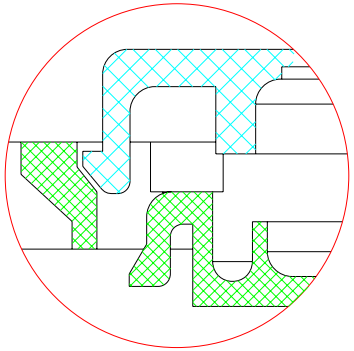
Lead wire tube & wire buckle



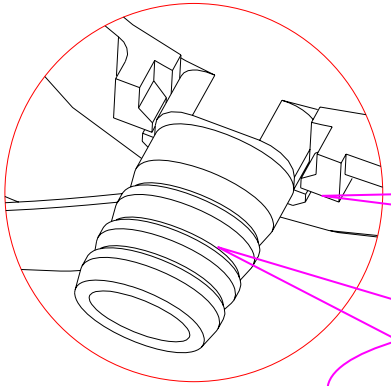


Structure of joint buckle





pressed
easy



Side wire
edged clip

retaining ring

IP 68 Certification

Certificated by TUVRheinland on June 12th, 2008

Reliability test

- Electric Derating
- Mechanical strength
- 9 reliability test
- L10 test



IP fan

80mm X 80mm X25mm

2010/1/18

Include

- Feature
- Outline
- Performance
- Circuit test
- Mechanical test
- Reliability test report
- Life experiment report

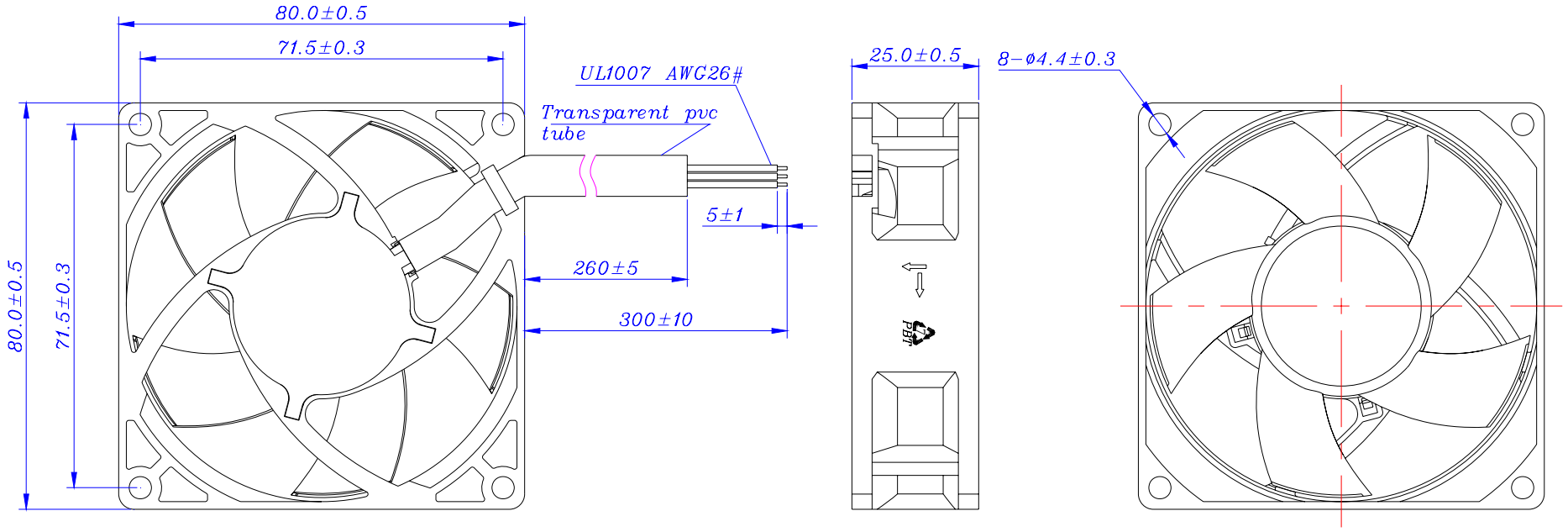
Feature

MGT8012XB-O25 series D



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

Outline



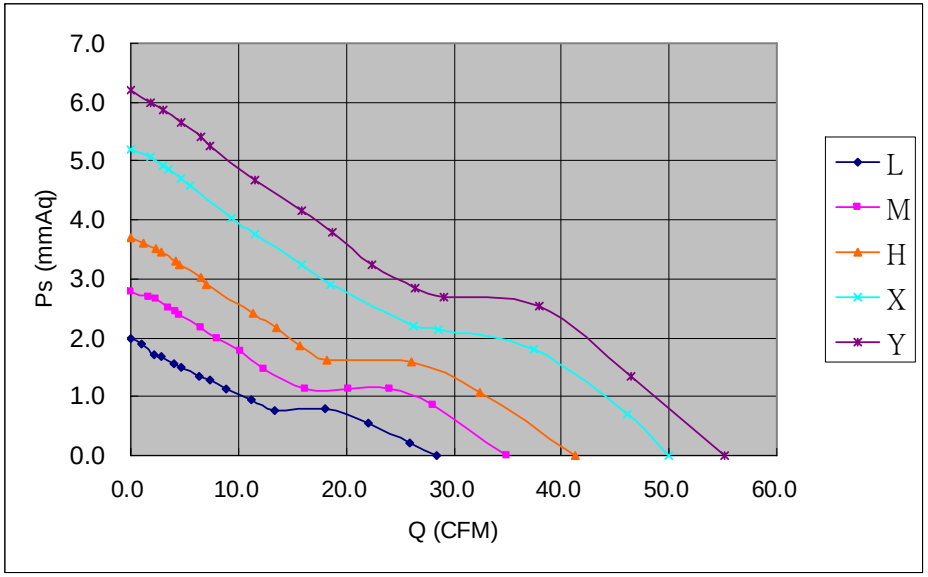
Unit: mm

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)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

Remarks:
(1) - Electric Characteristics： A - Standard 2-Pin; T - Frequency Generation 3-Pin
(2) - Function：(Blank); A - None Automatic Restart; O - Automatic Restart & Locked Current Protection; R - Rotate Detection, Automatic Restart & Locked Current Protection;

Air flow/Static-Pressure:





IP fan

92mm X 92mm X32mm

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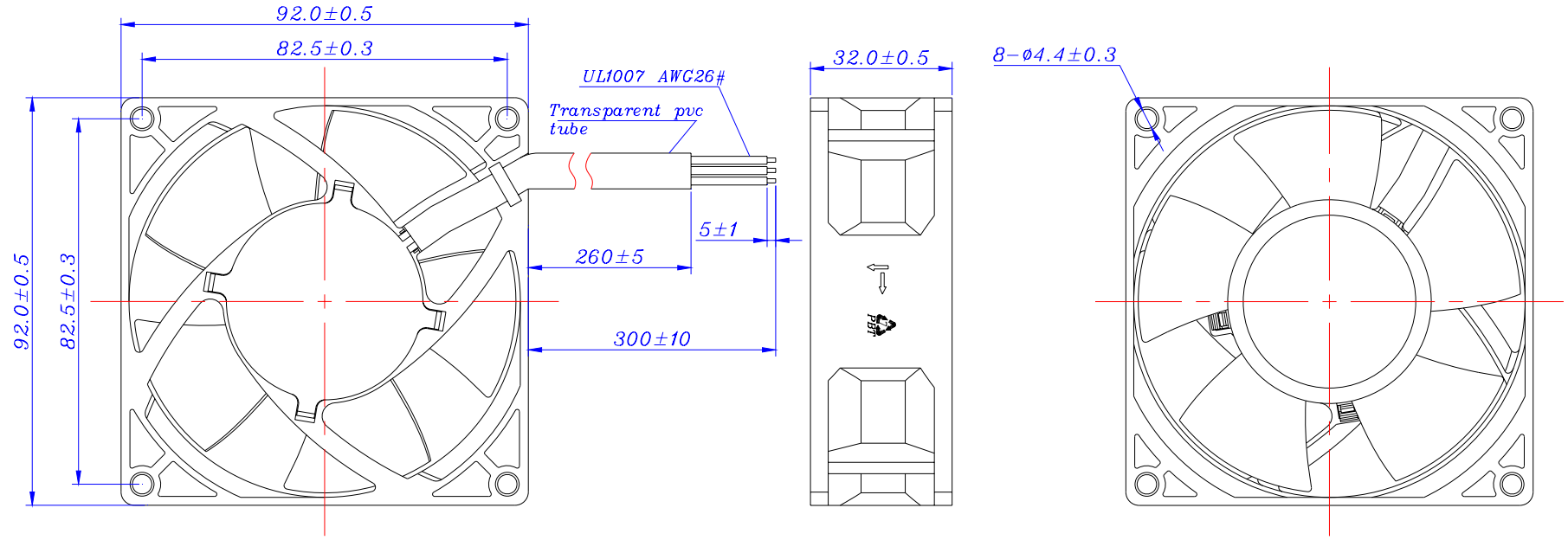
Feature

MGT9212LB-O32



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

Outline



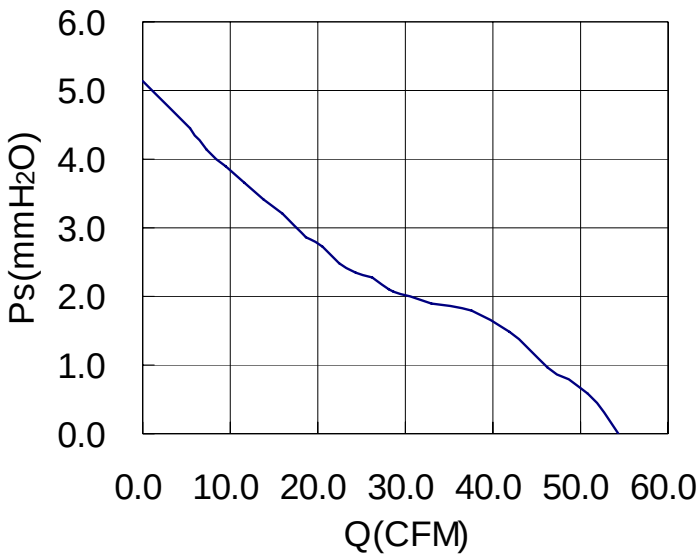
Unit: mm

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

Remarks:
(1) - Electric Characteristics： A - Standard 2-Pin; T - Frequency Generation 3-Pin
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Air flow/Static-Pressure:





IP fan

60mm X 60mm X25mm

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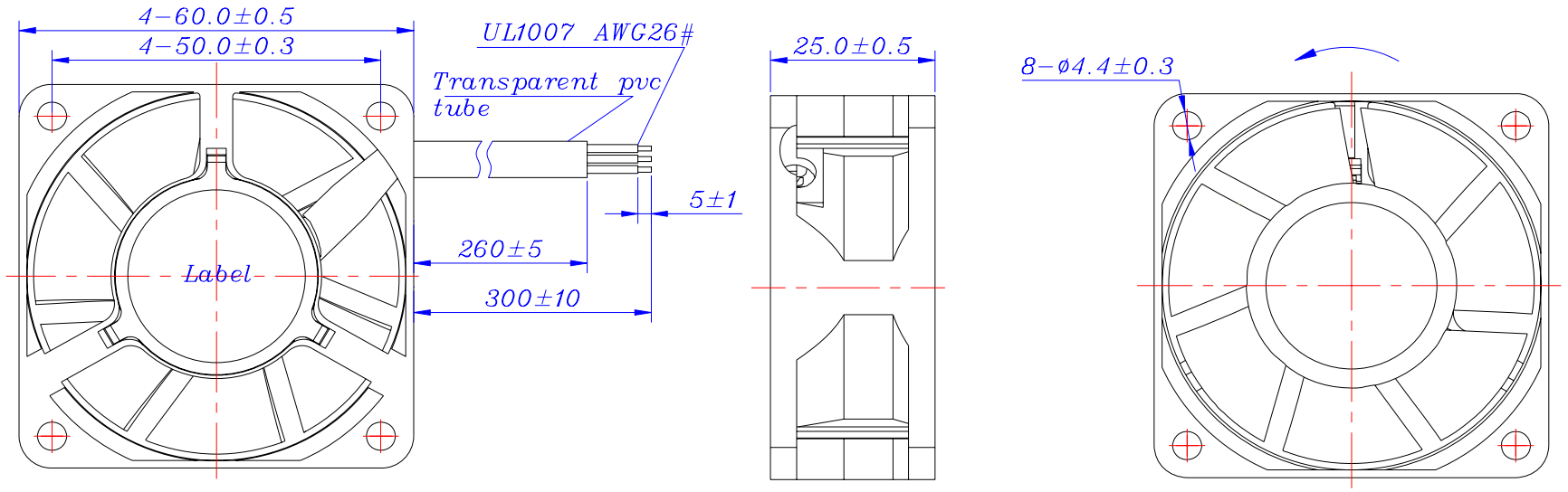
Feature

MGT6012HB-O25 series B



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

Outline



Unit:mm

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

Remarks:
(1) - Electric Characteristics： A - Standard 2-Pin; T - Frequency Generation 3-Pin
(2) - Function：(Blank); A - None Automatic Restart; O - Automatic Restart & Locked Current Protection; R - Rotate Detection, Automatic Restart & Locked Current Protection;

Air flow/Static-Pressure:

