



ACT-RX

Technology Corporation



National
Outstanding
SEMs Award



National Invention
and Creation Award



Taiwan Excellence
Award



Taiwan Intellectual
Property Management
System



About ARX

Building **ARX** Brand Name by Creating Value for Our Customers

In 1990, **ARX** was brought forth by a simple idea - *Creating Value for Customers*. Over the years we continued to adhere to this customer oriented approach and built our expertise in the field of thermal management. Today, **ARX** has grown into an international organization of cooling solution research and development, design, manufacture, and marketing conglomerates.

We are also the proud inventor and sole maker of the most reliable fan-*CeraDyna*.

Who we are

ARX is the premier expert in production and distribution of a wide range of

- Cooling fans
- Cooling components
- Thermal management solutions

Our motto

ARX is dedicated to provide our customers with

- Satisfactory products
- Comfortable service
- Mutually perfect trust



Historic Highlight

1990 ARX was founded in 1990, a company dedicated to the development of thermal management and cooling technology.

ARX became the first company in Taiwan to offer cooling solutions for 386 microprocessors.

1991 ARX was the first company to successfully apply Thermo-Electrical Cooling module to CPU cooling.

1993 ARX won the first “Taiwan Small & Medium Enterprises Innovation Research Award” for CPU & Chips Cooler.

1994 ARX was successfully introduced and developed the technology of Micro Heat Pipe in cooling field.

1995 ARX had mass production of ARX patented fans – Taiwan Plant.

1996 ARX became an ISO 9001/9002 TÜV certified manufacturer in Taiwan.

ARX won “Taiwan Excellence Award” for Shsrp Cool.

1997 ARX won “Taiwan Excellence Award” for Smart/Solid Cool and Slim Cool.

1998 ARX became an ISO 14001 BVQi certified manufacturer in Taiwan.

1999 ARX won “Taiwan Excellence Award” for Non-Emi Brushless Dcfan and Slight Cooler.

2000 ARX won the 7th “Taiwan Small & Medium Enterprises Innovation Research Award” for Slim & Multi-vane Cooling Device for VGA chip & Notebook PCs.

2001 ARX expanded its production facility to Dong Guan, China.

ARX unveiled the patented Ceramic Bearing fan – CeraDyna A Series.

2002 ARX’s CeraDyna fans, with its high reliability, low noise, and competitive cost, earned great reputations in the DC fan markets around the world.

2003 ARX expanded its new production site to Su Zhou, China.

2004 ARX started Branch Office in Europe – Rotterdam, Holland.

ARX unveiled the patented Ceramic Bearing fan - CeraDyna C Series.

2006 ARX won the 15th “National Outstanding Small and Medium Enterprises Award” .

2007 ARX became ISO/TS 16949 QMI certified manufacturer in Taiwan.

ARX became Taiwan Intellectual Property Management System certified company in Taiwan.

ARX won “National Invention and Creation Award”

ARX won “Taiwan Excellence Award” for Ceramic Bearing Cooling Fan.

2008 ARX spin off precision ceramic technology to new CIM company-AnOR.

2009 ARX became an ISO 9001: 2008 TÜV certified manufacturer in Taiwan.

ARX won “National Industrial Innovation Achievement Award” and “National Small and Medium Business Innovation Research Industry Upgrade Award” .

About CeraDyna Fan

Retrospection to the history we should be able to realize the amazing impact of new materials in various fields of applications. The discovery of semiconductor brought forth the era of electronic industry and led the change of our life style. The development of heat resistant materials like engineering ceramics broke the power and life limits of traditional engines for jets and autos. Today, through our R&D efforts, ARX proudly announces the successful development of ceramic bearing system for mini cooling fan application, a breakthrough for fan and a new thought for fan industry.

About Ceramic

Why Ceramic Bearing

ARX R&D believes ball bearing is not the only choice for high end cooling fan. Through years of research and development, ARX proudly gives birth of the ceramic bearing solution for cooling fan to –

- Provide alternative to traditional bearing system
- Provide equivalent or better life expectancy
- Provide equivalent or better reliability
- Provide Cost effective solution
- Simplify fan structure
- Reduce noise from bearing system
- Reduce the complexity of fan assembly
- Increase the yield rate of fan production

The Advantages of Zirconia Based Ceramics

Zirconia based ceramics have evolved to the stage where diversified design of microstructures and attributes are within the power of engineer and designers. Varying its control of composition, fabrication route, thermal treatment and final machining, Zirconia has provided hundreds of successful cases in replacing traditional materials as robust and cost effective solutions.

- High hardness
- High wear resistance
- Low thermal expansion
- Low conductivity
- Chemical Inertness
- Good for precision machining

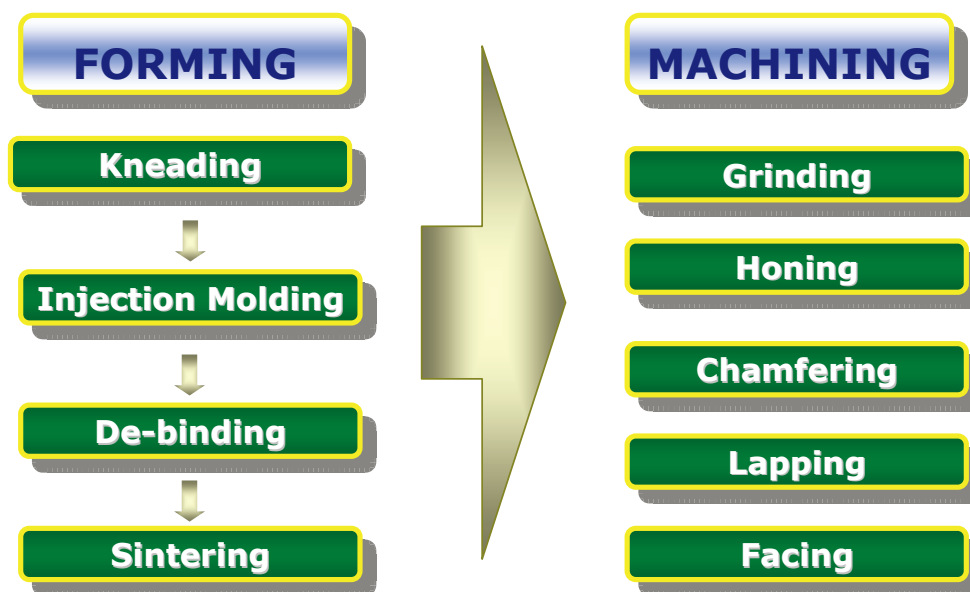
Improved Ceramics

ZrO ₂	Conventional Properties	ARX Properties
Bonding Form	Ionic and Covalent	Ionic and Covalent
Density (g/cm ³)	5.5~5.7	> 6.0
Hardness (Hv)	1000~1100	>1300
Sintering Temp. (°C)	> 1500	< 1400
Thermal Expansion Coefficient (10-6/°C)	8~11	~8
Fracture Toughness KIC (MPa·m ^{1/2})	4~6	> 8
Flexural Strength (MPa)	400~600	~800
Friction Coefficient	>0.2	~0.15

ARX is always seeking for better. The processes developed from raw material, molding, sintering to final machining have gone through experiment after experiment to make the bearing the best.

- Employing the state-of-the-art nanotechnology
- Partially Stabilized Zirconia (PSZ), which well disperses the tetragonal precipitates within cubic morphology
- The transformation toughened Zirconia is characterized by high strength and fracture toughness
- Precision injection molding for forming • Good for creating finely polished surfaces

Ceramics Manufacturing Processes



	Kneading	Injection Molding	De - binding	Sintering	Post Machining
Ingredient	●				
Appearance		●	●	●	●
Dimension		●			●
Weight Ratio		●	●		
Contraction Ratio				●	
Strength				●	
Density				●	
Hardness					●
Roughness					●
Roundness					●

The most important factors and parameters to be examined are listed in the table for your reference.

CeraDyna A Series

Fan Size Range
25x10~127x38mm
Operating Temperature
-20°C~+70° Celsius
Service Life
MTTF at 60°C:40000+ Hours
Bearing
Ceramic Shaft + Alloy Sleeve



About CeraDyna A Series

CeraDyna A fan series has been introduced to the market for more than nine years. Its bearing system features a well machined and polished ceramic shaft along with a fine alloy sleeve. The ceramic shaft possesses adequate hardness that results in very high wear resistance. The surface of the shaft is machined and polished, reflecting a smooth and shiny texture that conventional SUS shaft can't compete. Not only can this hard and fine surface preserve its original quality for an extreme long period of time of operation, it also comes with the run-in polishing effect on the alloy sleeve.

CeraDyna C Series

Fan Size Range
25x10~90x25mm
Operating Temperature
-20°C~+85° Celsius
(Extreme application up to + 150°C)
Service Life
MTTF at 60°C:60000+ Hours
Bearing
Ceramic Shaft + Ceramic Sleeve



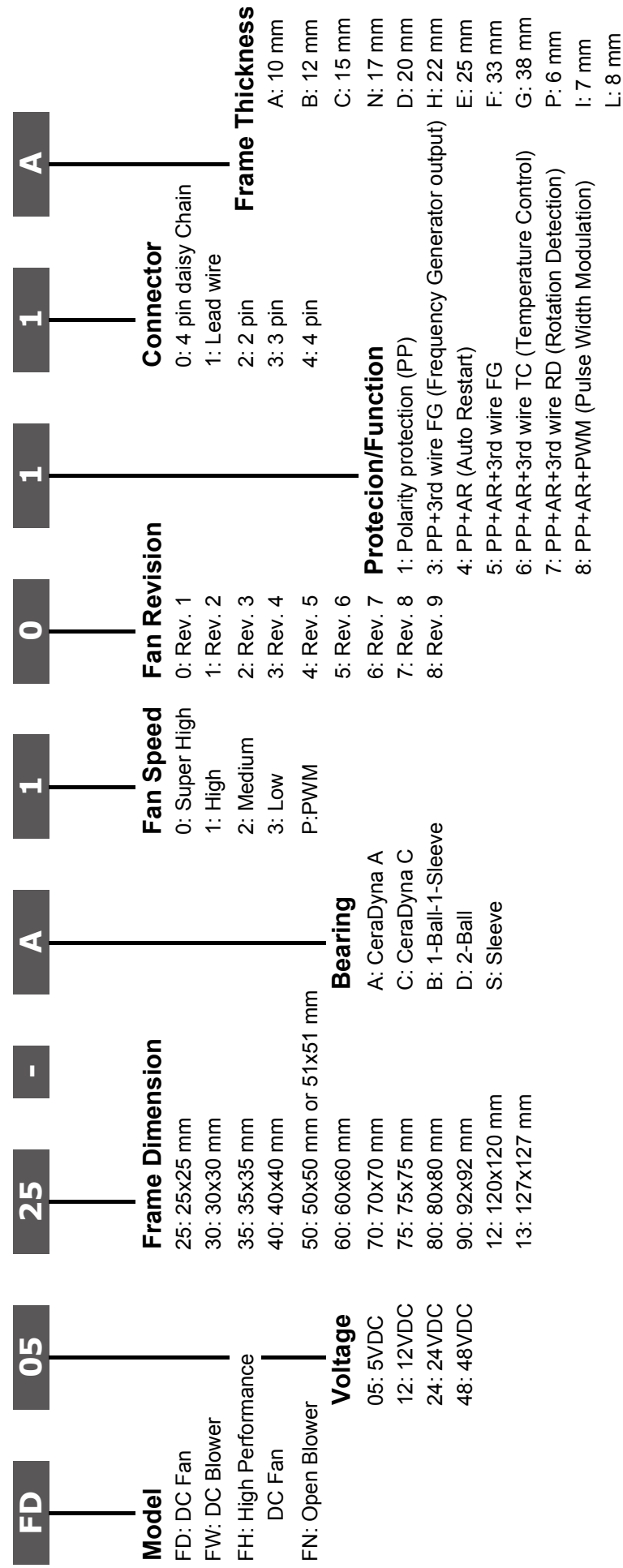
About CeraDyna C Series

ARX is never satisfied with the ceramic bearing of the first generation – CeraDyna A. There has been a need to further advance the capability of the bearing system for applications with more stringent requirement. After years of research and development, ARX launches her CeraDyna C fan series in year 2004, featuring a precisely machined ceramic shaft and ceramic bearing. By best using the advantages of the ceramic material and well defined tolerance and precision, CeraDyna C out performs most of the current existing bearing systems in many aspects such as operation stability, noise, service life, etc.

Comparison table

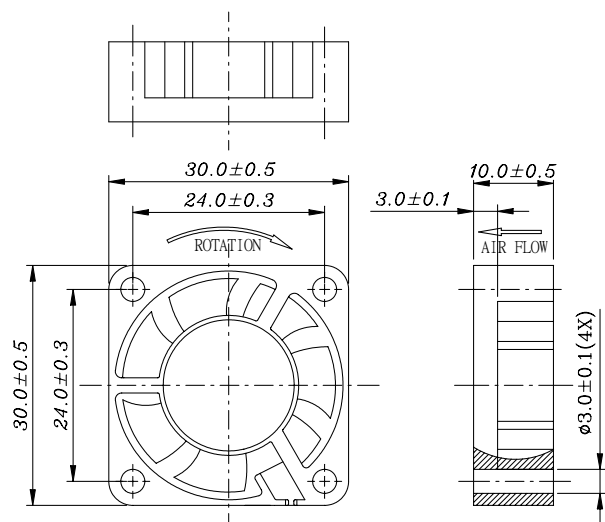
Bearing System	Conventional Fans SUS420 Steel Shaft		CeraDyna Fan ZrO ₂ Ceramic Shaft
	Ball Bearing	Cu Sintered Sleeve	Cu-Fe Alloyed Sleeve
Feature Comparison			
Contact Mode	Multi-Point Contact. Rolling Friction.	Line Contact. Sliding Friction.	Reduced Line Contact with Minimized Sliding Friction.
Noise Level	Steady noise level through life. Generally higher than sleeve bearing.	Lower noise level than ball bearing at early stage but gradually increases over life.	ZrO ₂ shaft is fine polished to a mirror-like surface and thus substantially reduce noise level to lower than both ball and sleeve bearings.
Machining Precision	The characteristics of SUS420 present inherent limitation in machining precision to reach finite dimensional and geometrical tolerance.		Near-net-shape formed shaft needs minimal machining to achieve high level of precision.
Hardness	HRC = 50		HRC = 90
Durability	Good for high-speed operation at normal condition, but sensitive to changes in humidity and temperature.	Prone to be worn out of shape due to lower hardness or lack of fitting precision.	Stable operation throughout life as a result of superior material property that provides resistance to wearing, deformation, oxidation and corrosion.
Precision of Movement	Good level of precision but very fragile under external impact.	Low level of precision. Easily cause clogging or seizing.	High level of precision due to: 1. Machining and fitting 2. Lower thermal expansion coefficient, Secondary polish effect between shaft and sleeve
Life Expectation	2-Ball system: 50,000~65,000 hrs avg. 1-Ball-1-Sleeve: 50,000 hrs avg.	30,000 hrs avg.	300,000 hrs avg. (from MTBF test by CSIST)
Cost	High	Low	Medium

DC Fan part number

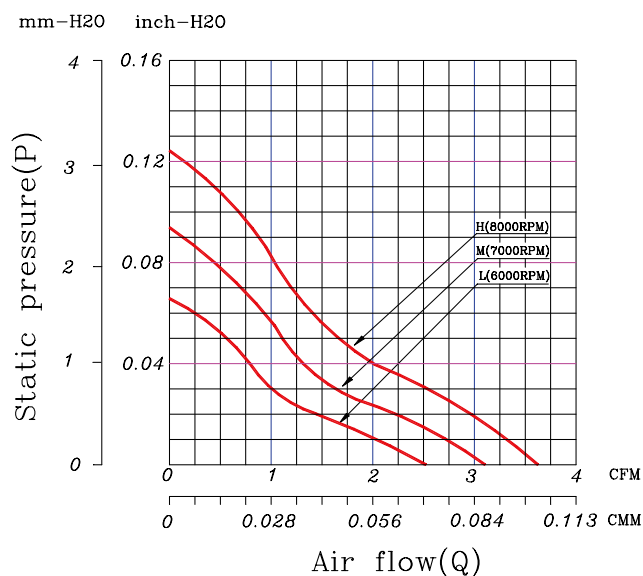


30 x 30 x 10 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor.

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 8 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1095 AWG 28	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
○ Temperature Control	○ Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD0530-A10XXA	5	0.18	0.90	8000	3.68	0.12	24.50
FD0530-A20XXA	5	0.12	0.60	7000	3.11	0.09	23.50
FD0530-A30XXA	5	0.09	0.45	6000	2.55	0.07	22.50
FD1230-A10XXA	12	0.09	1.08	8000	3.68	0.12	24.50
FD1230-A20XXA	12	0.08	0.96	7000	3.11	0.09	23.50
FD1230-A30XXA	12	0.06	0.72	6000	2.55	0.07	22.50

*All readings are typical value at rated voltage.

*Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

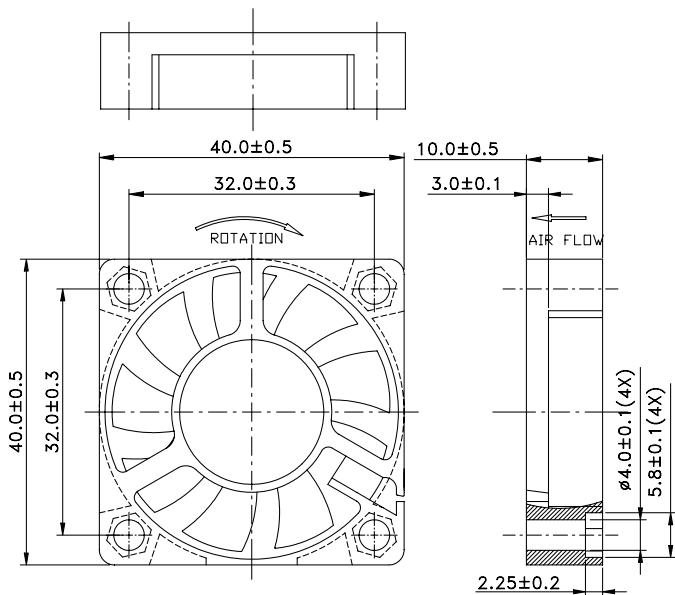
*Specifications are subject to change without prior notice.

*Please specify revision number when ordering.

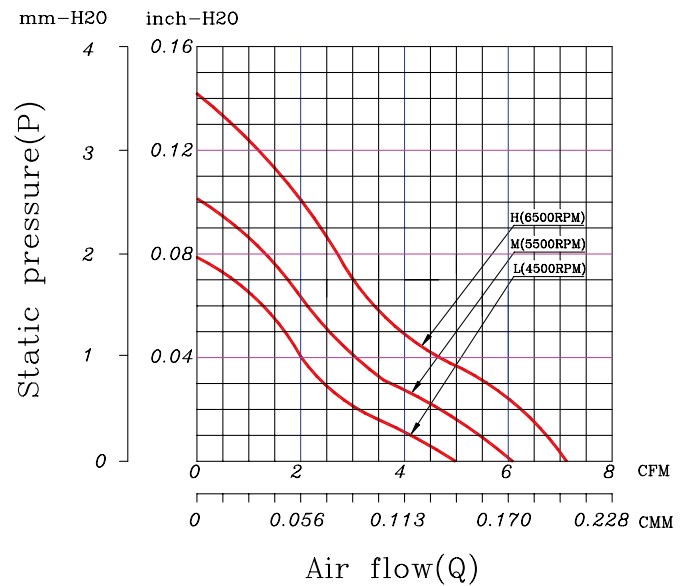
40 x 40 x 10 mm Series

Rev III – 9-Blade

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor.

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 15 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 28	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
○ Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD0540-A12XXA	5	0.24	1.20	6500	7.20	0.14	33.00
FD0540-A22XXA	5	0.18	0.90	5500	6.11	0.10	27.50
FD0540-A32XXA	5	0.16	0.80	4500	4.98	0.07	23.50
FD1240-A12XXA	12	0.12	1.44	6500	7.20	0.14	33.00
FD1240-A22XXA	12	0.09	1.08	5500	6.11	0.10	27.50
FD1240-A32XXA	12	0.08	0.96	4500	4.98	0.07	23.50

* All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

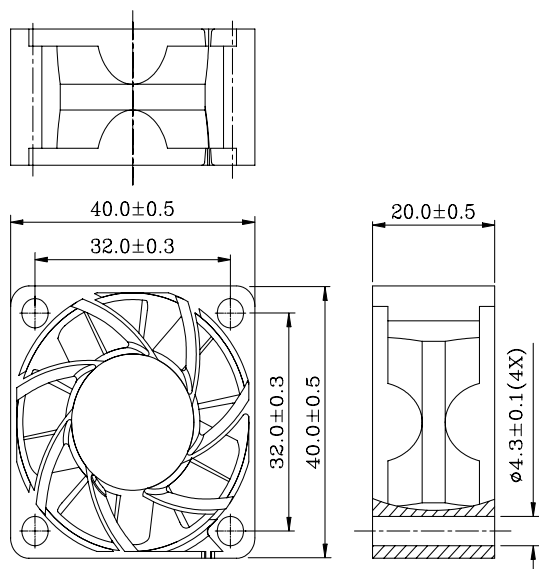
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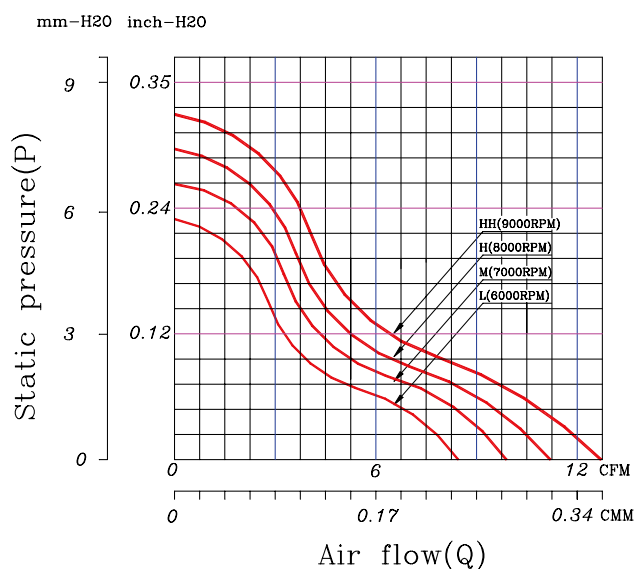
40 x 40 x 20 mm Series

Rev II-12/24VDC

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	○ 2-Ball
Weight: 30 g	○ 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1095 AWG 28	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
○ Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1240-A01XXD	12	0.20	2.40	9000	12.71	0.33	33.00
FD1240-A11XXD	12	0.16	1.92	8000	11.30	0.29	31.00
FD1240-A21XXD	12	0.12	1.44	7000	9.89	0.26	27.00
FD1240-A31XXD	12	0.09	0.98	6000	8.48	0.23	23.00
FD2440-A01XXD	24	0.13	3.12	9000	12.71	0.33	33.00
FD2440-A11XXD	24	0.11	2.64	8000	11.30	0.29	31.00
FD2440-A21XXD	24	0.09	2.16	7000	9.89	0.26	27.00
FD2440-A31XXD	24	0.08	1.92	6000	8.48	0.23	23.00

*All readings are typical value at rated voltage.

*Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

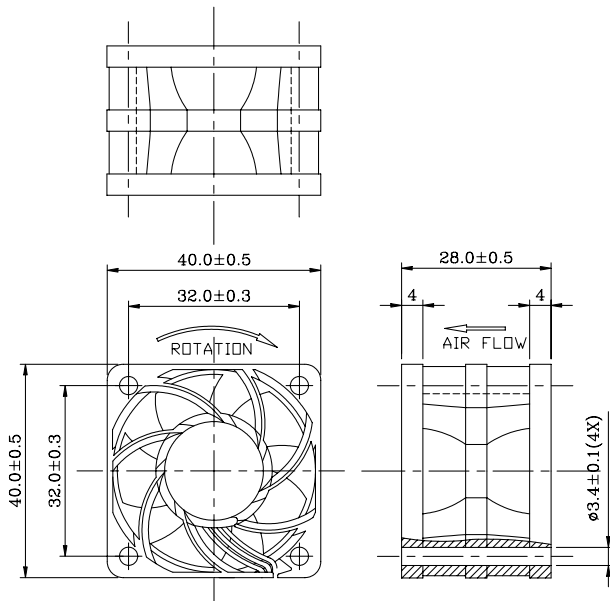
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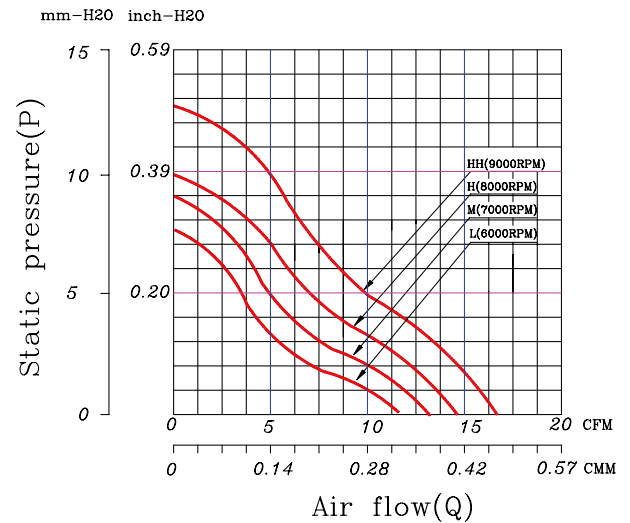
40 x 40 x 28 mm Series

12/24 VDC

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	○ 2-Ball
Weight: 30 g	○ 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1095 AWG 28	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
○ Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1240-A00XXM	12	0.31	3.72	9000	16.65	0.50	41.00
FD1240-A10XXM	12	0.24	2.88	8000	14.80	0.39	36.00
FD1240-A20XXM	12	0.19	2.28	7000	12.95	0.35	33.00
FD1240-A30XXM	12	0.14	1.68	6000	11.10	0.30	29.00
FD2440-A00XXM	24	0.24	5.76	9000	16.65	0.50	41.00
FD2440-A10XXM	24	0.16	3.84	8000	14.80	0.39	36.00
FD2440-A20XXM	24	0.12	2.88	7000	12.95	0.35	33.00
FD2440-A30XXM	24	0.10	2.40	6000	11.10	0.30	29.00

* All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

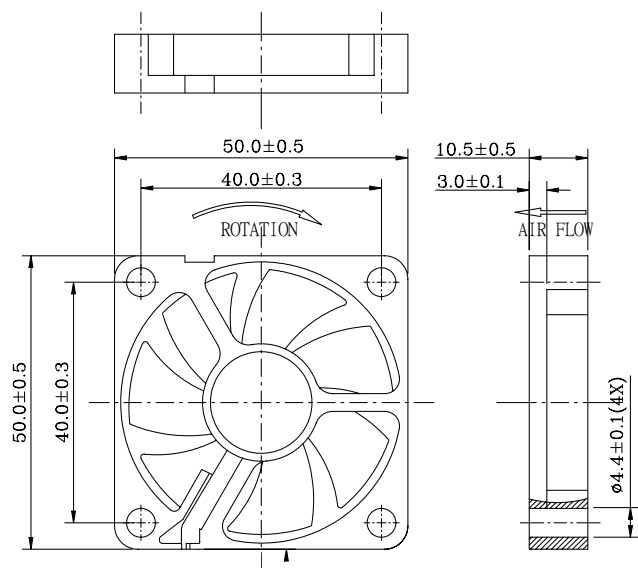
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* Please specify revision number when ordering.

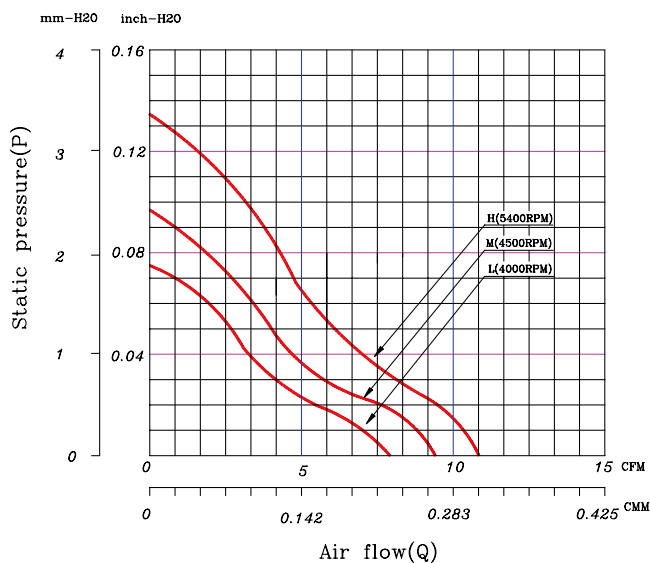
50 x 50 x 10 mm Series

Rev I – 15Ø

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 17 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 26	* Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1250-A10XXA	12	0.11	1.32	5400	10.16	0.13	31.50
FD1250-A20XXA	12	0.09	1.08	4500	8.56	0.09	26.50
FD1250-A30XXA	12	0.07	0.84	4000	7.63	0.07	23.50

* All readings are typical value at rated voltage.

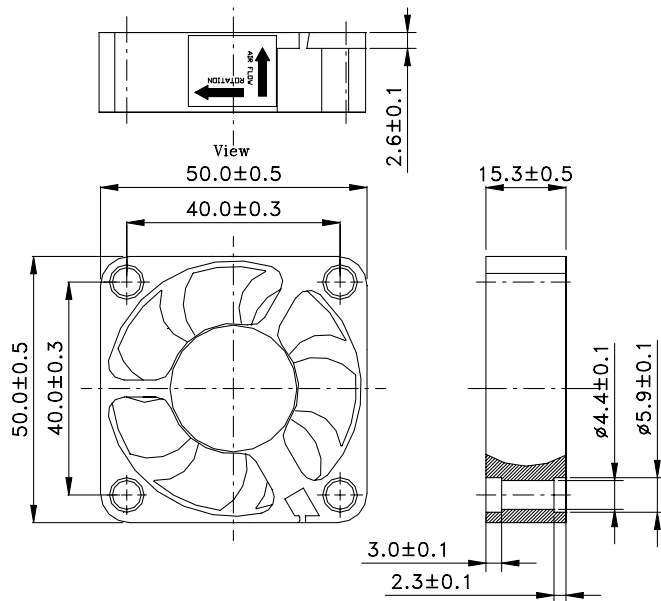
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

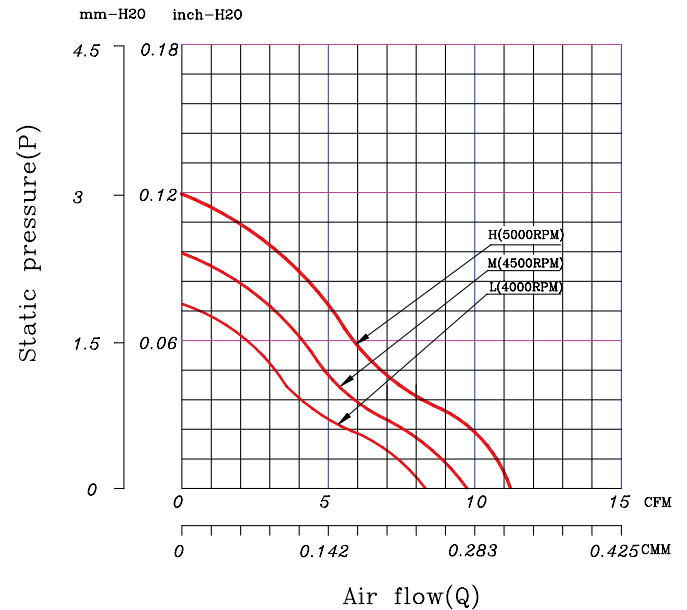
* Please specify revision number when ordering.

50 x 50 x 15 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 30 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 26	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1250-A10XXC	12	0.15	1.80	5000	11.2	0.12	33.10
FD1250-A20XXC	12	0.11	1.32	4500	9.74	0.09	30.10
FD1250-A30XXC	12	0.10	1.20	4000	8.33	0.07	27.50

* All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

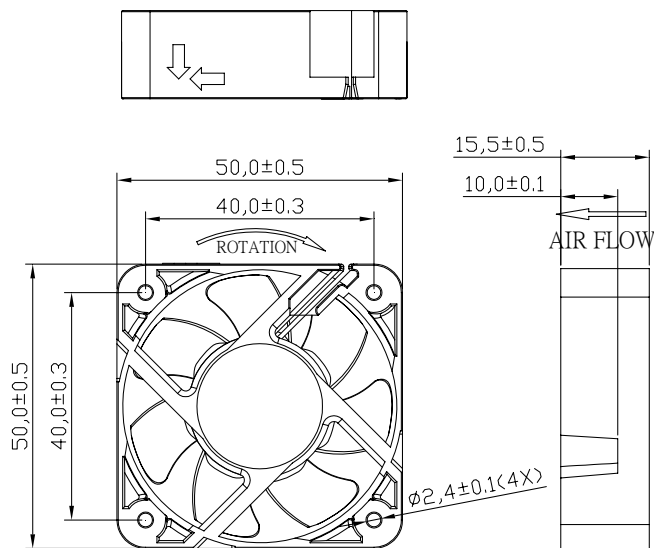
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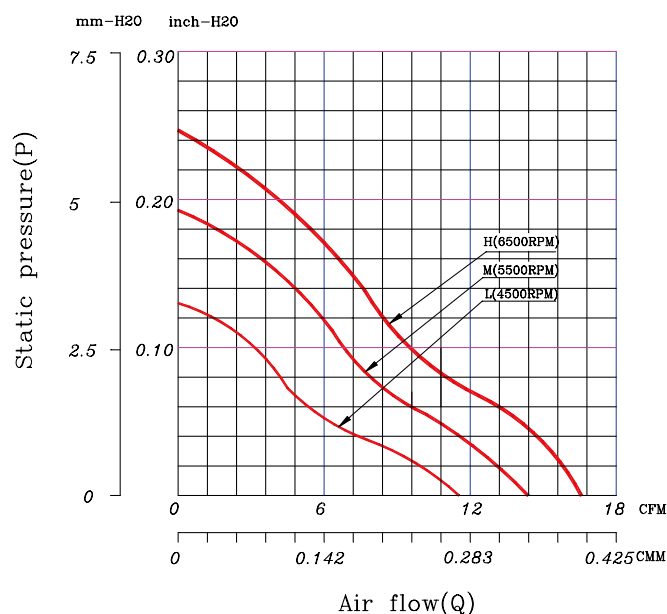
50 x 50 x 15 mm Series

Rev II- 12 VDC

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 22 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 26	* Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1250-A11XXC	12	0.19	2.28	6500	16.57	0.24	39.00
FD1250-A21XXC	12	0.14	1.62	5500	14.38	0.19	34.80
FD1250-A31XXC	12	0.08	0.9	4000	11.54	0.13	28.50

*All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

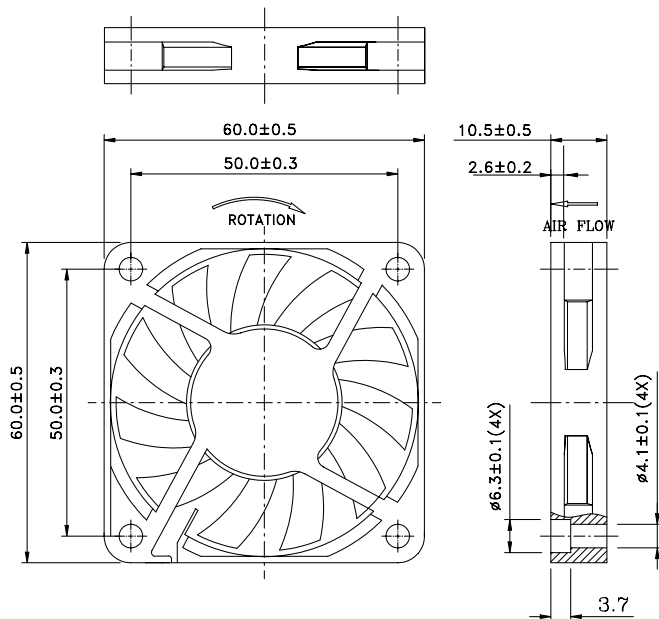
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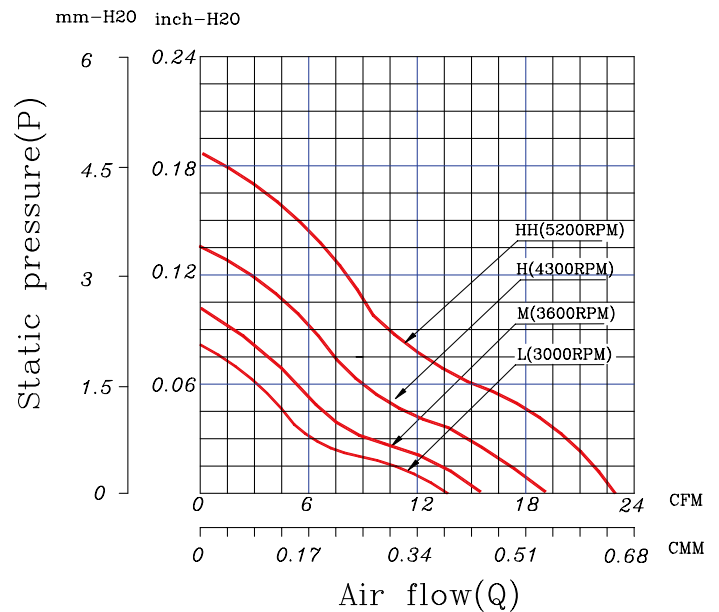
60 x 60 x 10 mm Series

Rev II-22Ø 12/24VDC

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 50 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 26	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD12460-A01XXA	12	0.33	3.96	5200	23.70	0.18	38.00
FD12460-A11XXA	12	0.25	3.00	4300	19.60	0.13	30.00
FD1260-A21XXA	12	0.18	2.16	3600	16.41	0.10	27.00
FD1260-A31XXA	12	0.11	1.32	3000	13.67	0.08	23.00
FD2460-A01XXA	24	0.17	4.08	5200	23.70	0.18	38.00
FD2450-A11XXA	24	0.13	3.12	4300	19.60	0.13	30.00
FD2460-A21XXA	24	0.10	2.40	3600	16.41	0.10	27.00
FD2460-A31XXA	24	0.07	1.68	3000	13.67	0.08	23.00

*All readings are typical value at rated voltage.

*Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

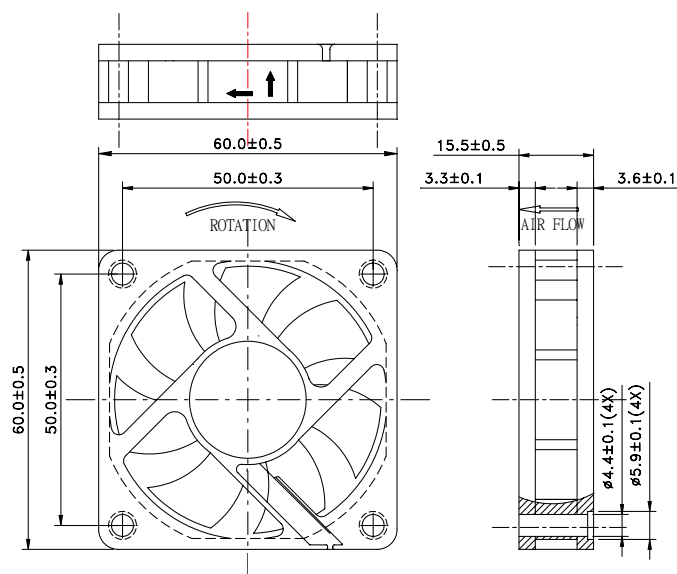
*Specifications are subject to change without prior notice.

*Please specify revision number when ordering.

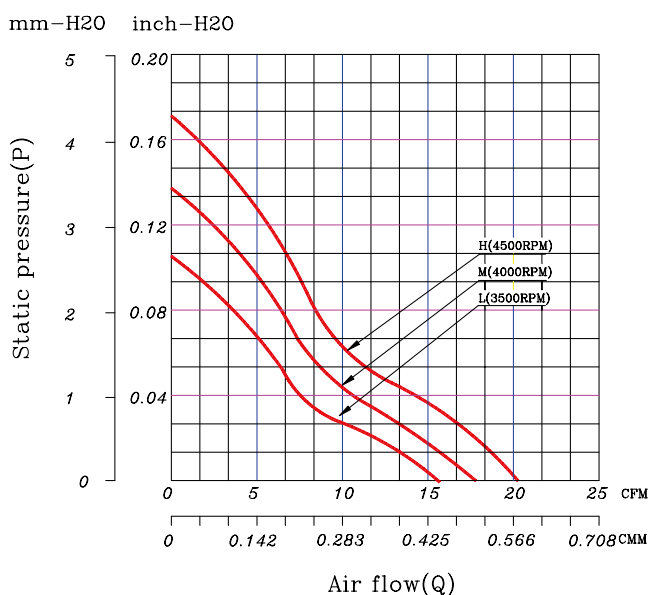
60 x 60 x 15 mm Series

Rev I – 18Ø

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 40 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 26	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1260-A10XXC	12	0.18	2.16	4500	20.02	0.17	36.50
FD1260-A20XXC	12	0.14	1.68	4000	17.80	0.13	33.50
FD1260-A30XXC	12	0.12	1.44	3500	15.57	0.10	30.50
FD2460-A10XXC	24	0.12	2.88	4500	20.02	0.17	36.50
FD2460-A20XXC	24	0.11	2.64	4000	17.80	0.13	33.50
FD2460-A30XXC	24	0.10	2.40	3500	15.57	0.10	30.50

*All readings are typical value at rated voltage.

*Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

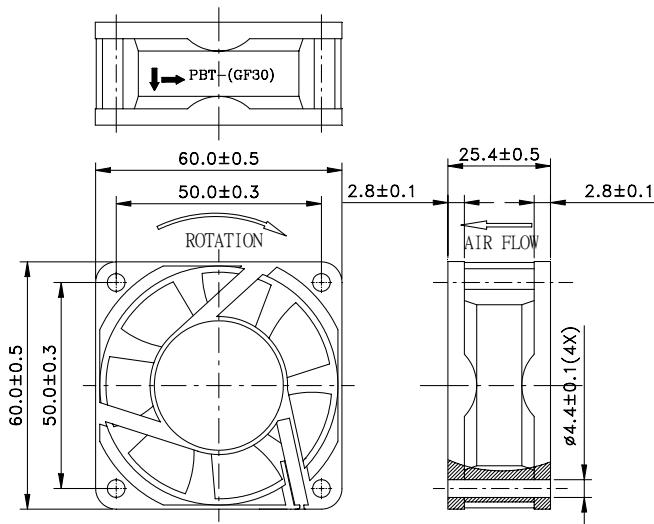
*Specifications are subject to change without prior notice.

*Please specify revision number when ordering.

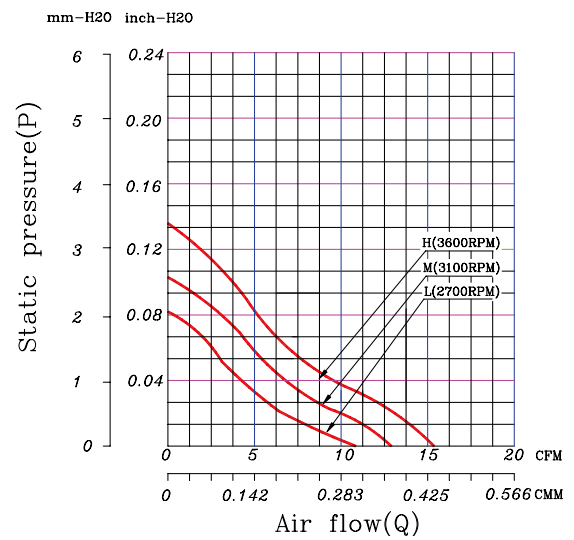
60 x 60 x 25 mm Series

Rev I

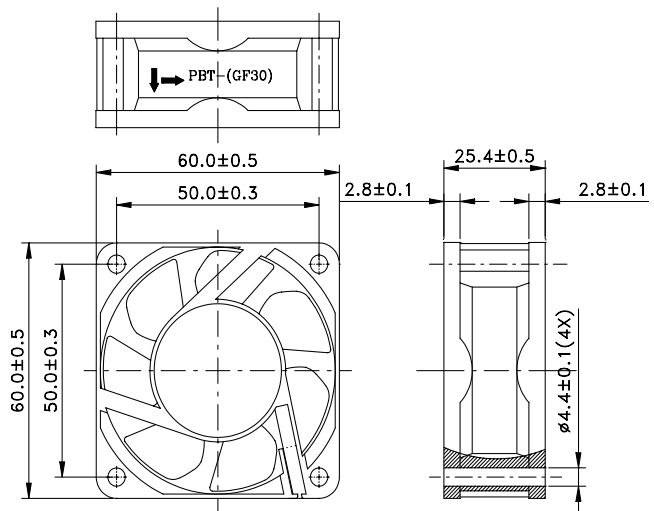
Dimensions



Performance Curves

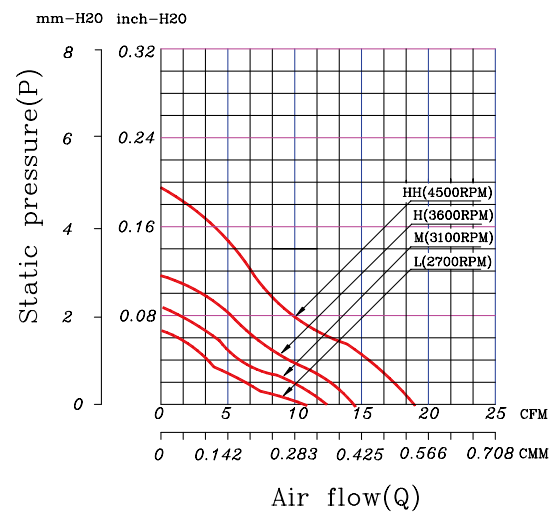


Dimensions



Rev II

Performance Curves

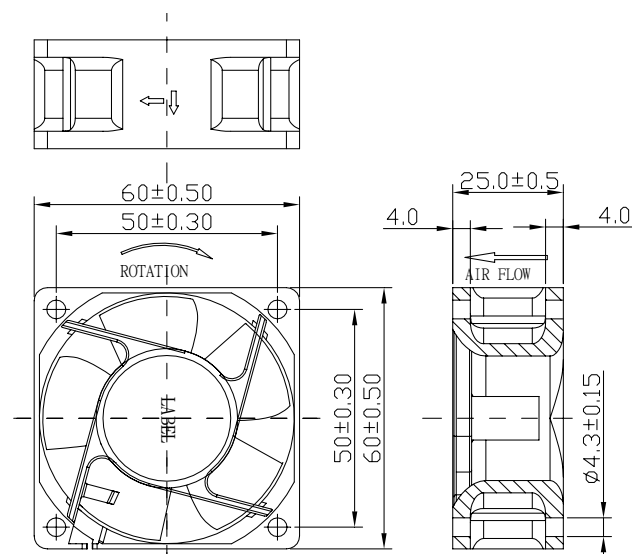


Specifications

Model	TYPE	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1260-A10XXE	I	12	0.15	1.80	3600	15.22	0.14	27.50
FD1260-A20XXE	I	12	0.12	1.44	3100	13.10	0.10	24.50
FD1260-A30XXE	I	12	0.08	0.96	2700	11.41	0.08	23.00
FD1260-A01XXE	II	12	0.23	2.76	4500	19.62	0.19	31.00
FD1260-A11XXE	II	12	0.15	1.80	3600	17.18	0.13	24.00
FD1260-A21XXE	II	12	0.12	1.44	3100	14.42	0.08	23.50
FD1260-A31XXE	II	12	0.08	0.96	2700	12.36	0.06	23.00

60 x 60 x 25 mm FD Series

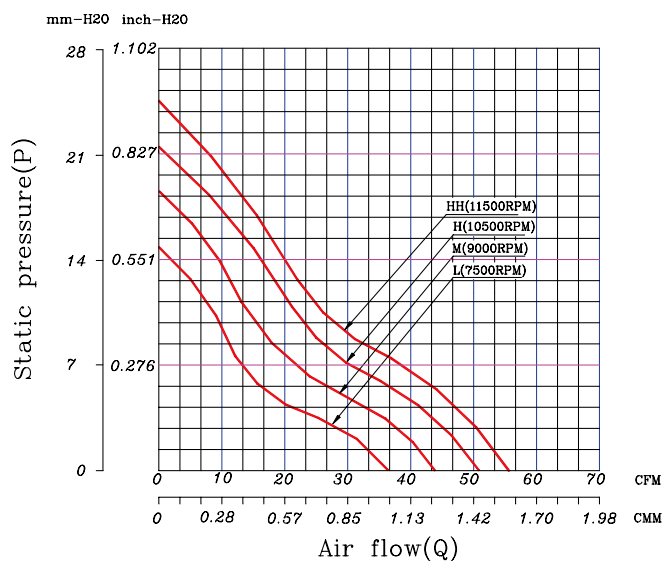
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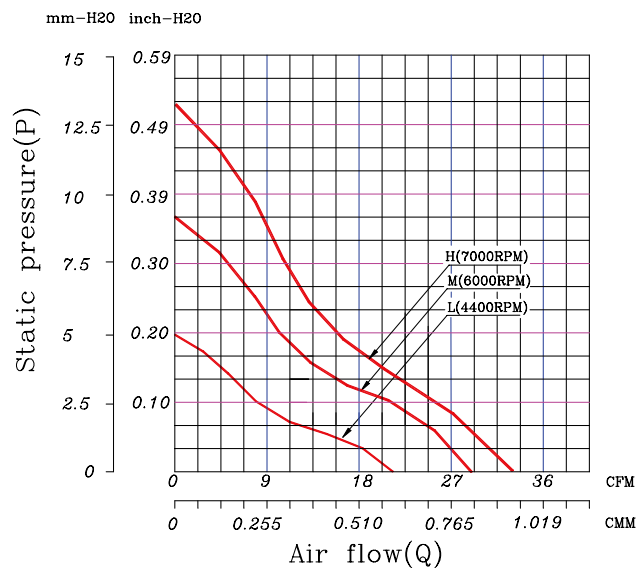
Rev V

Rev VII

Performance Curves



Performance Curves



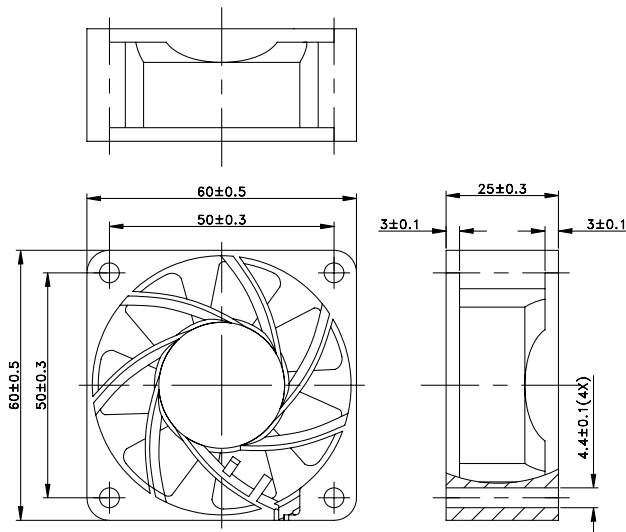
Specifications

Model	TYPE	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H2O)	Noise Level (dBA)
FD2460-A04XXE	V	24	0.46	11.04	11500	55.73	0.96	65.50
FD2460-A14XXE	V	24	0.37	8.88	10500	50.88	0.85	60.20
FD2460-A24XXE	V	24	0.28	6.72	9000	43.61	0.73	56.50
FD2460-A34XXE	V	24	0.17	4.08	7500	36.35	0.58	50.40
FD1260-A16XXE	VII	12	0.33	3.96	7000	32.71	0.52	48.00
FD1260-A26XXE	VII	12	0.22	2.64	6000	29.08	0.36	45.50
FD1260-A36XXE	VII	12	0.11	1.32	4400	21.32	0.18	38.80

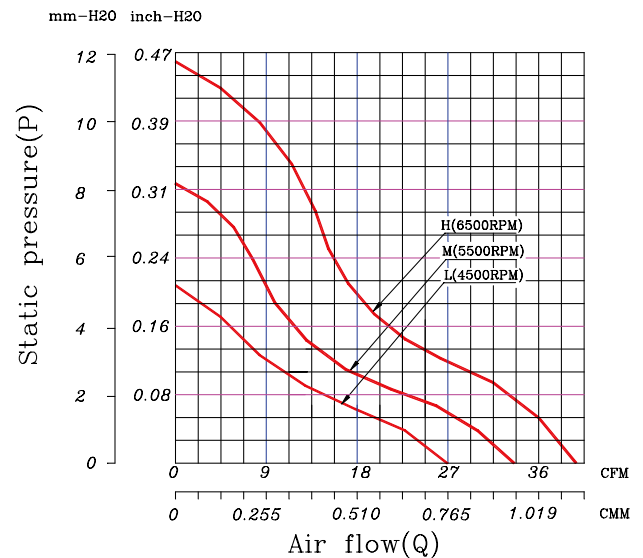
60 x 60 x 25 mm Series

Rev VI

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 60 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1260-AP58XE	12	0.50	6.00	6500	39.42	0.44	53.90
FD1260-A15XXE	12	0.50	6.00	6500	39.42	0.44	53.90
FD1260-A25XXE	12	0.35	4.20	5500	33.42	0.32	43.30
FD1260-A35XXE	12	0.17	2.04	4300	26.99	0.20	43.10

* All readings are typical value at rated voltage.

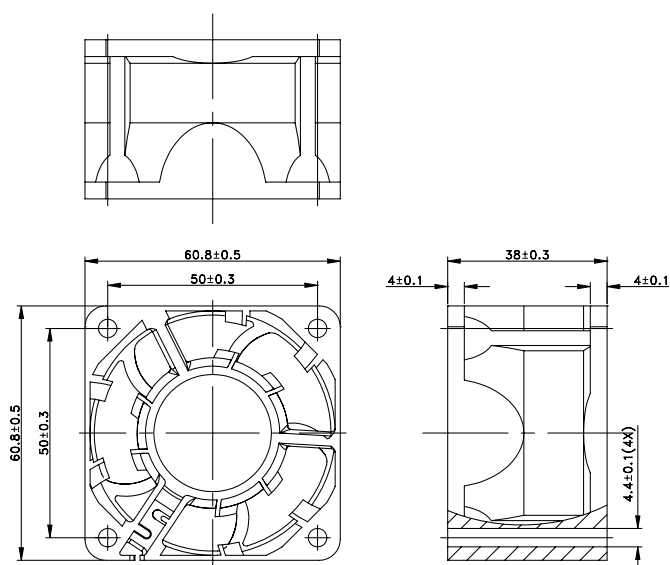
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

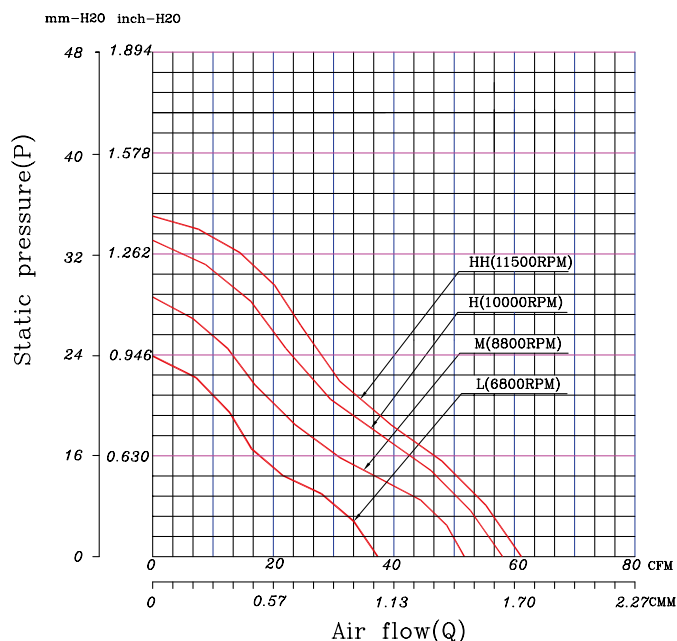
* Please specify revision number when ordering.

60 x 60 x 38 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	○ 2-Ball
Weight: 114.5 g	○ 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1260-A01XXG	12	1.50	18.00	11500	61.18	2.41	62.40
FD1260-A11XXG	12	1.25	15.00	10000	58.05	2.29	59.50
FD1260-A21XXG	12	0.90	10.8	8800	51.70	2.04	55.20
FD1260-A31XXG	12	0.50	6.00	6800	37.34	1.47	44.50
FD1260-A01XXG	24	0.77	18.5	11500	61.18	2.41	62.40
FD1260-A11XXG	24	0.60	14.4	10000	58.05	2.29	59.50
FD1260-A21XXG	24	0.45	10.8	8800	51.70	2.04	55.20
FD1260-A31XXG	24	0.27	6.48	6800	37.34	1.47	44.50

*All readings are typical value at rated voltage.

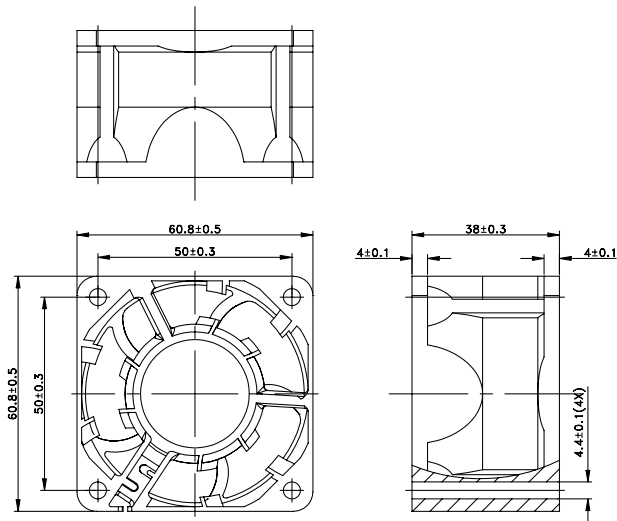
*Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

*Specifications are subject to change without prior notice.

*Please specify revision number when ordering.

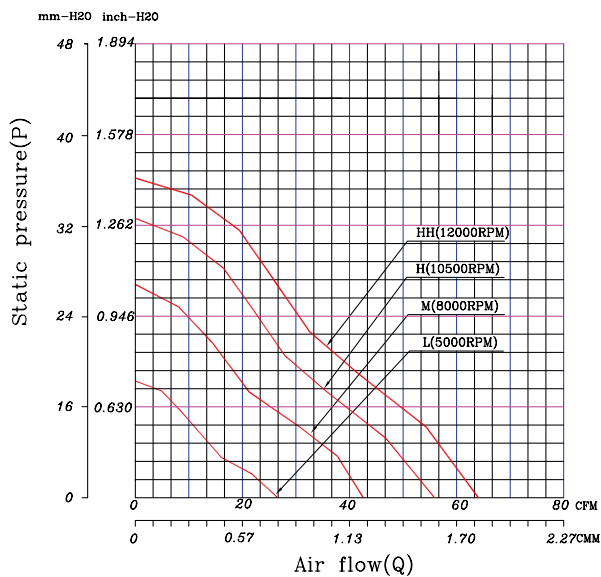
60 x 60 x 38 mm Series

Dimensions



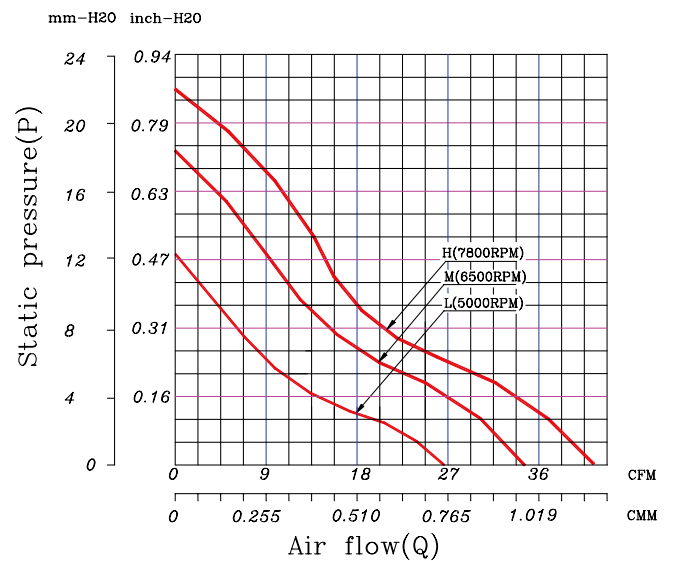
Rev I

Performance Curves



Rev III

Performance Curves

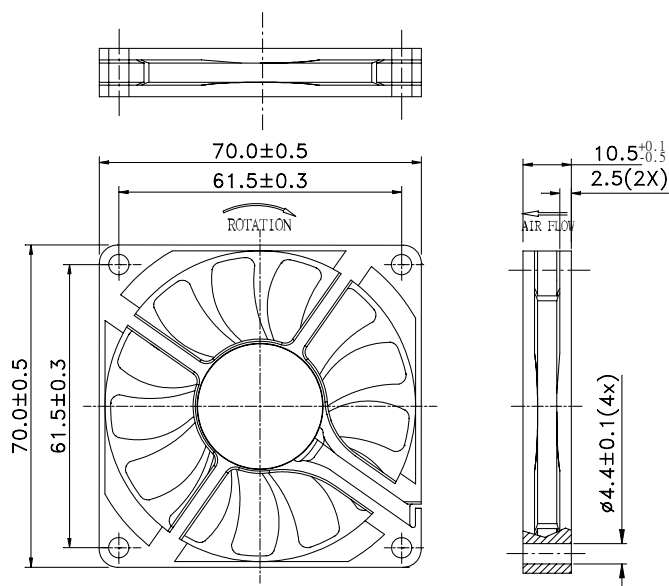


Specifications

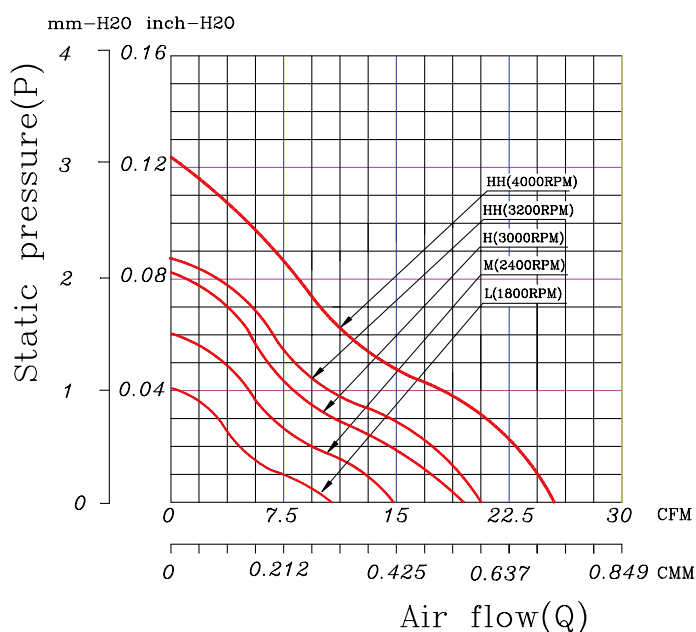
Model	TYPE	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H2O)	Noise Level (dBA)
FD2460-A00XXG	I	48	0.46	22.08	12000	63.84	1.33	65.50
FD2460-A10XXG	I	48	0.35	16.80	10500	55.86	1.16	60.20
FD2460-A20XXG	I	48	0.23	11.04	8000	42.56	0.89	56.50
FD2460-A30XXG	I	48	0.13	6.24	5000	26.60	0.49	50.40
FD1260-AP2XXG	III	12	0.64	7.68	7800	41.49	0.86	48.70
FD1260-A12XXG	III	12	0.64	7.68	7800	41.49	0.86	48.70
FD1260-A22XXG	III	12	0.45	5.40	6500	34.58	0.75	41.50
FD1260-A32XXG	III	12	0.26	3.12	5000	26.60	0.49	38.70

70 x 70 x 10 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	○ 2-Ball
Weight: 27.5 g	○ 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD0570-A00XXA	5	0.32	1.60	3200	20.71	0.09	33.50
FD0570-A10XXA	5	0.22	1.10	3000	19.42	0.08	31.50
FD0570-A20XXA	5	0.15	0.75	2400	14.83	0.06	26.50
FD0570-A30XXA	5	0.10	0.50	1800	10.59	0.04	20.20
FD1270-A00XXA	12	0.32	3.84	4000	25.56	0.12	42.25
FD1270-A10XXA	12	0.18	2.16	3000	19.42	0.08	31.50
FD1270-A20XXA	12	0.10	1.20	2400	14.83	0.06	26.50
FD1270-A30XXA	12	0.09	1.08	1800	10.59	0.04	20.20

*All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

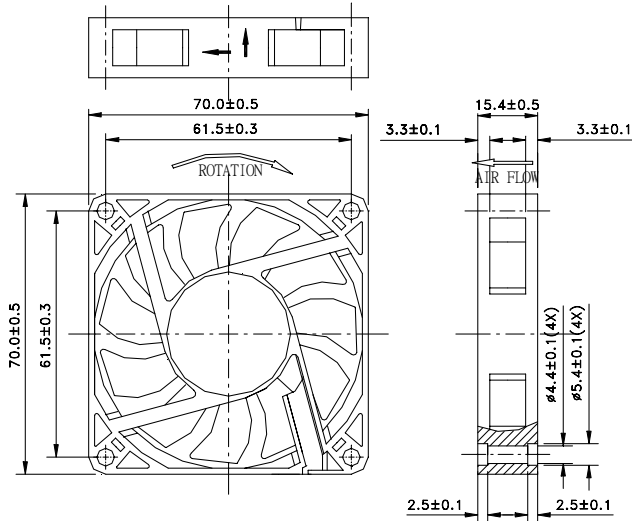
* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

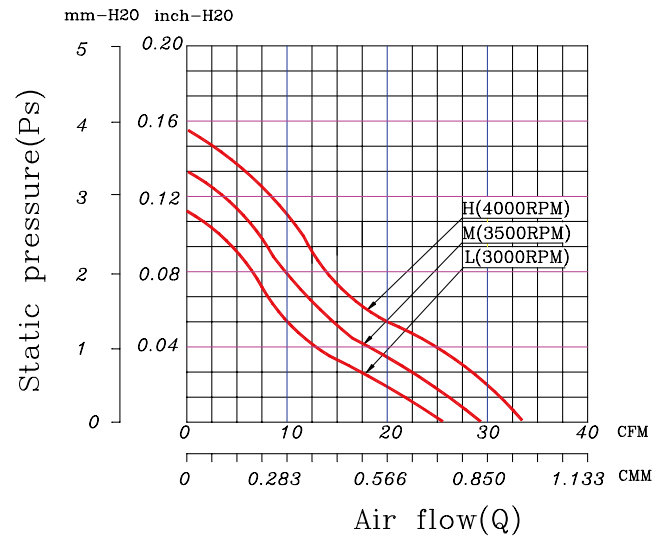
70 x 70 x 15 mm Series

Rev II

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 55 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1270-A11XXC	12	0.23	2.76	4000	33.20	0.15	35.00
FD1270-A21XXC	12	0.16	1.92	3500	29.10	0.13	32.00
FD1270-A31XXC	12	0.11	1.32	3000	25.00	0.11	28.00

* All readings are typical value at rated voltage.

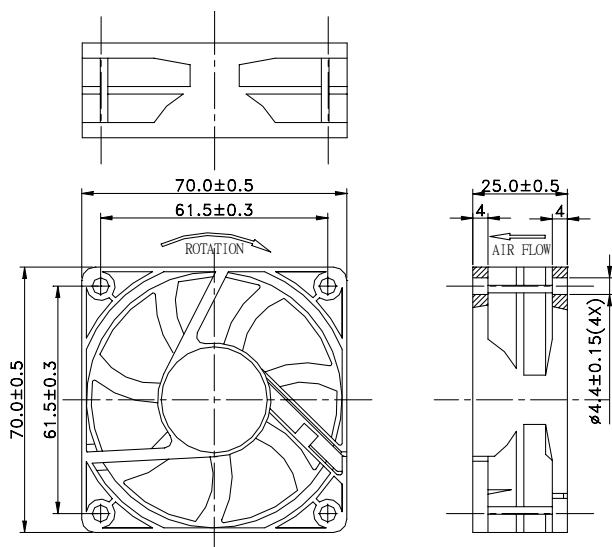
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

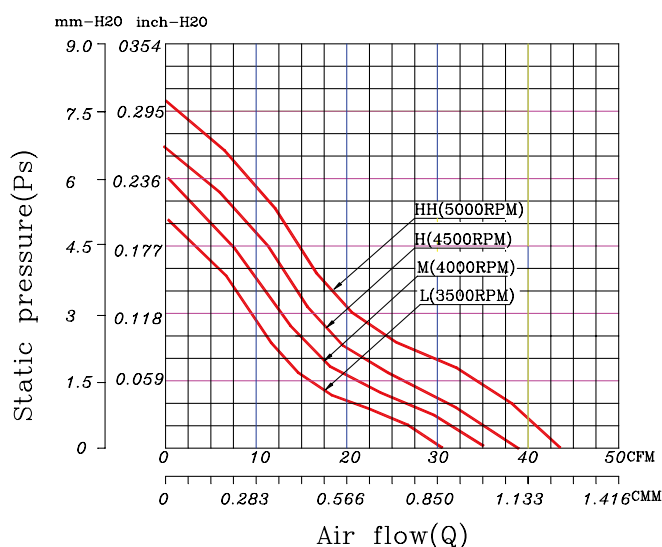
* Please specify revision number when ordering.

70 x 70 x 25 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 65 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1270-A00XXE	12	0.35	4.20	5000	43.78	0.30	41.00
FD1270-A10XXE	12	0.25	3.00	4500	39.40	0.27	39.00
FD1270-A20XXE	12	0.21	2.52	4000	36.00	0.24	36.00
FD1270-A30XXE	12	0.16	1.92	3500	30.60	0.21	33.00

*All readings are typical value at rated voltage.

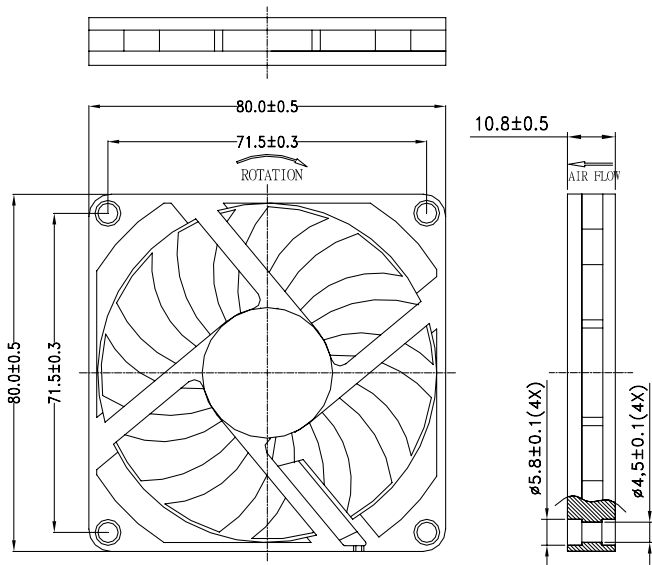
*Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

*Specifications are subject to change without prior notice.

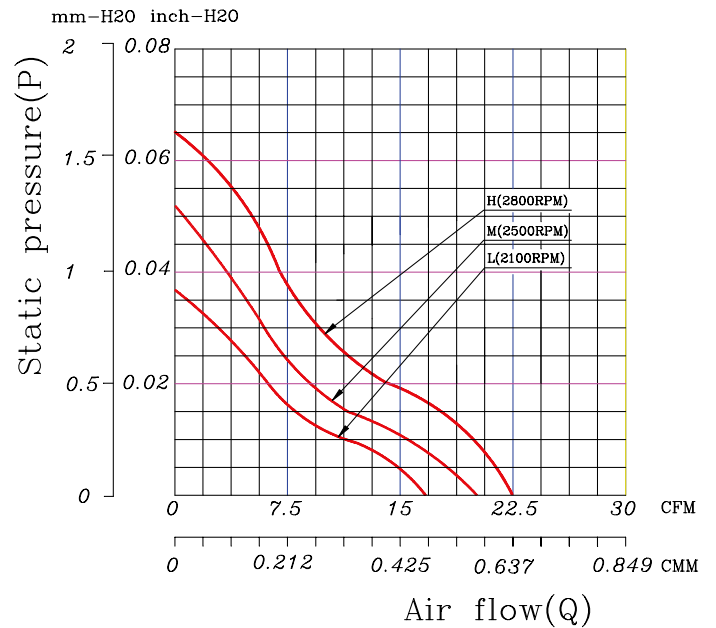
*Please specify revision number when ordering.

80 x 80 x 10 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	○ 2-Ball
Weight: 39 g	○ 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD0580-A10XXA	5	0.32	1.60	2800	22.52	0.06	25.50
FD0580-A20XXA	5	0.22	1.10	2500	20.11	0.05	23.00
FD0580-A30XXA	5	0.15	0.75	2100	16.71	0.04	20.00

* All readings are typical value at rated voltage.

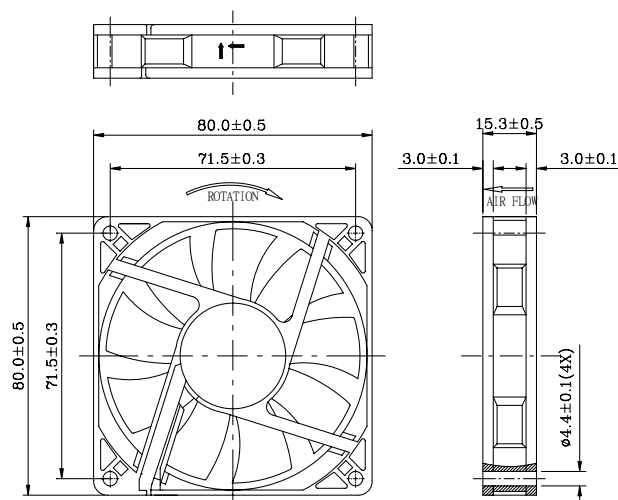
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

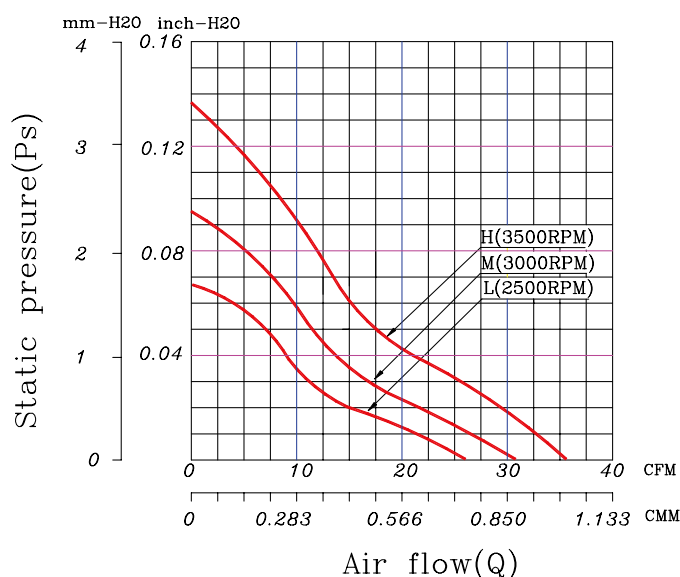
* Please specify revision number when ordering.

80 x 80 x 15 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 60 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	* Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1280-A10XXC	12	0.21	2.76	3500	35.77	0.13	35.50
FD1280-A20XXC	12	0.17	2.04	3000	31.25	0.09	32.00
FD1280-A30XXC	12	0.11	1.32	2500	25.96	0.06	26.50

* All readings are typical value at rated voltage.

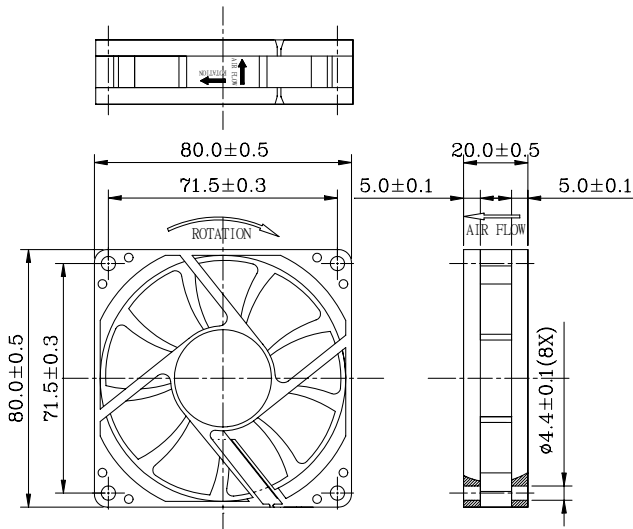
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

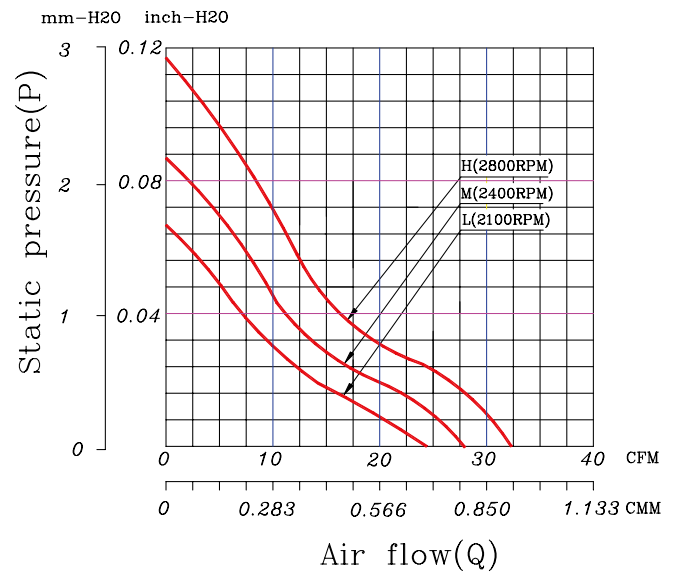
* Please specify revision number when ordering.

80 x 80 x 20 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 70 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1280-A10XXD	12	0.19	2.28	2800	32.21	0.12	29.00
FD1280-A20XXD	12	0.13	1.56	2400	27.62	0.09	26.50
FD1280-A30XXD	12	0.12	1.44	2100	24.16	0.07	23.00

* All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

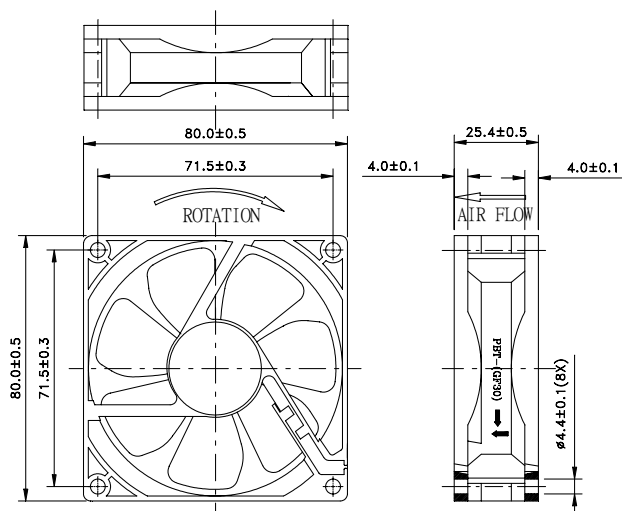
* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

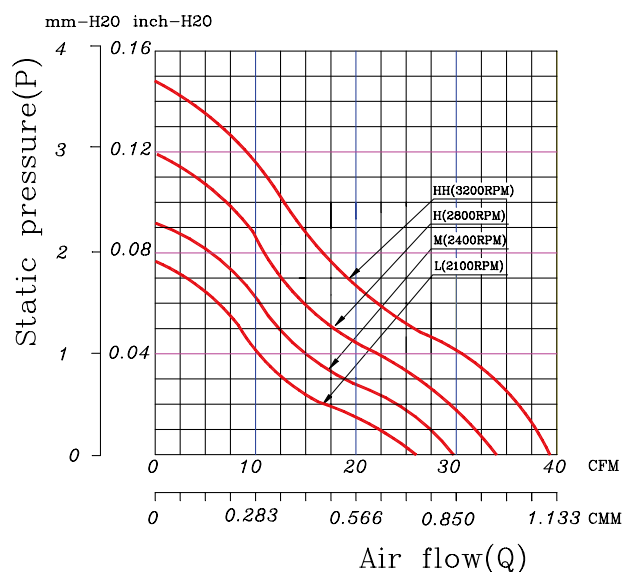
80 x 80 x 25 mm Series

Rev II

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 70 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H2O)	Noise Level (dBA)
FD1280-A01XXE	12	0.24	2.88	3200	40.61	0.14	35.50
FD1280-A11XXE	12	0.17	2.04	2800	35.45	0.11	31.50
FD1280-A21XXE	12	0.13	1.56	2400	30.19	0.09	27.50
FD1280-A31XXE	12	0.09	1.08	2100	26.20	0.06	22.50
FD2480-A01XXE	24	0.16	3.84	3200	40.61	0.14	35.50
FD2480-A11XXE	24	0.13	3.12	2800	35.45	0.11	31.50
FD2480-A21XXE	24	0.11	2.64	2400	30.19	0.09	27.50
FD2480-A31XXE	24	0.09	2.16	2100	26.20	0.06	22.50

*All readings are typical value at rated voltage.

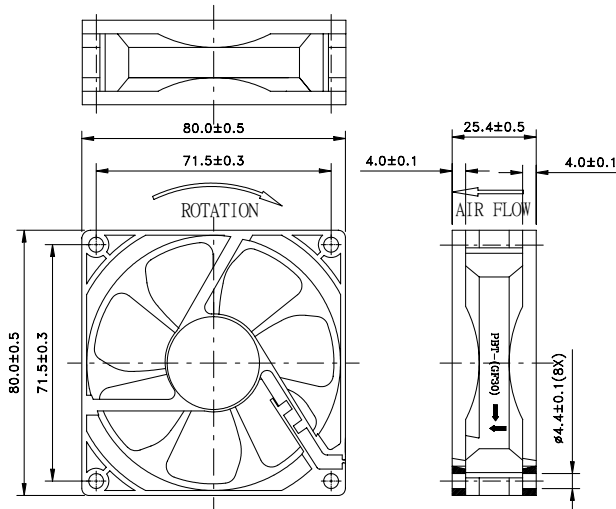
*Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

*Specifications are subject to change without prior notice.

*Please specify revision number when ordering.

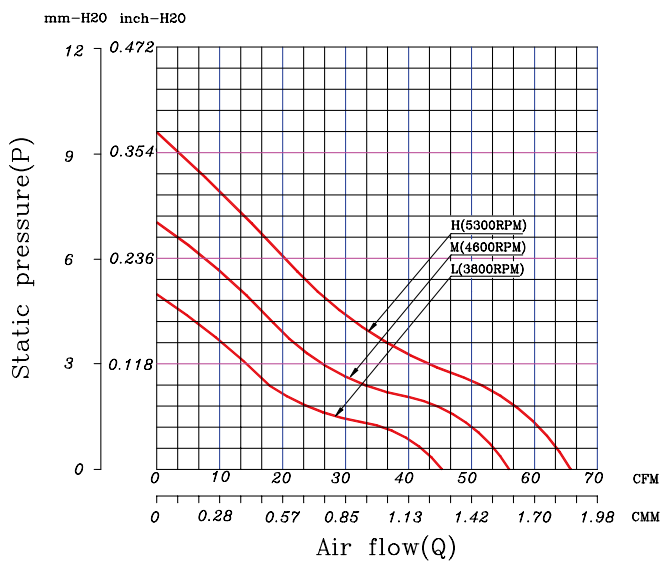
80 x 80 x 25 mm Series

Dimensions



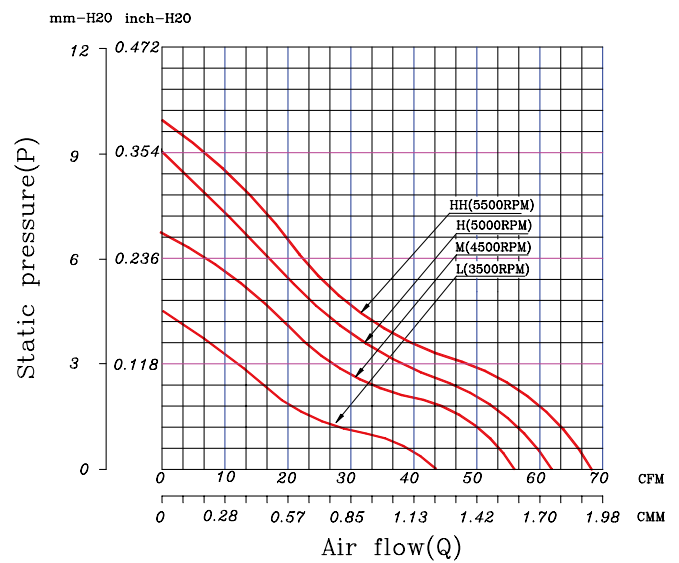
Rev III-12VDC

Performance Curves



Rev III-24VDC

Performance Curves



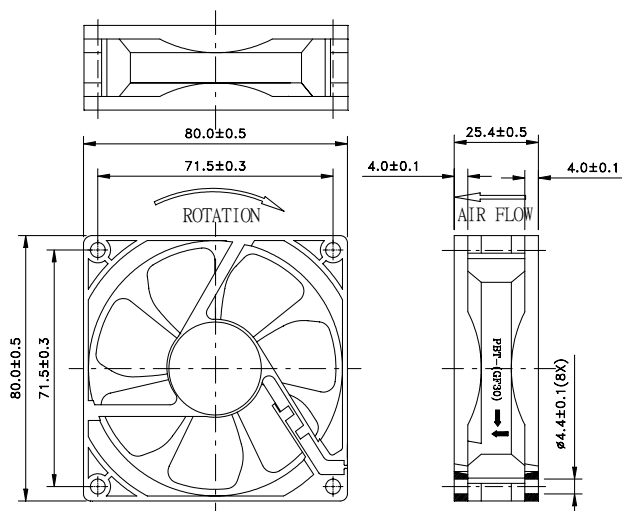
Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1280-AP2XXE	12	0.50	6.00	5300	65.69	0.38	51.50
FD1280-A12XXE	12	0.50	6.00	5300	65.69	0.38	51.50
FD1280-A22XXE	12	0.36	4.32	4600	55.80	0.28	47.50
FD1280-A32XXE	12	0.23	2.76	3800	45.20	0.20	42.50
FD2480-A02XXE	24	0.23	5.52	5500	68.16	0.39	53.30
FD2480-A12XXE	24	0.18	4.32	5000	61.97	0.36	49.30
FD2480-A22XXE	24	0.13	3.12	4500	55.77	0.27	46.20
FD2480-A32XXE	24	0.08	1.92	3500	43.38	0.18	40.10

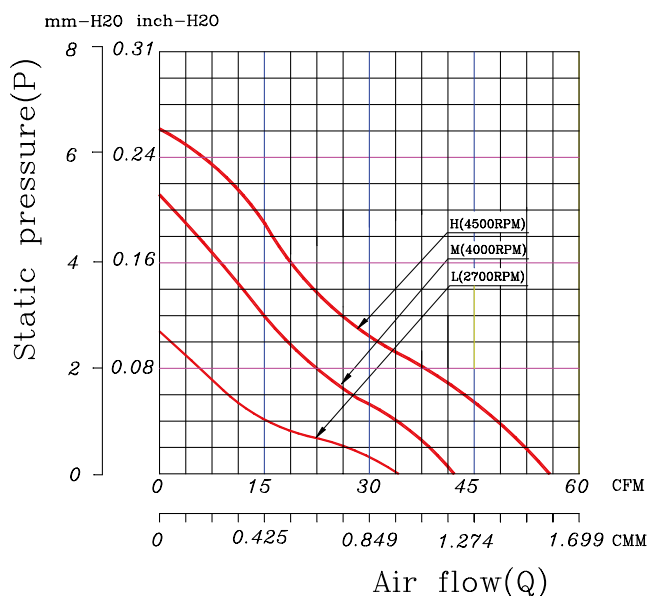
80 x 80 x 25 mm Series

Rev IV

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 70 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	* Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1280-A13XxE	12	0.36	2.88	4500	55.77	0.26	46.50
FD1280-A23XXE	12	0.23	2.04	4000	42.11	0.21	44.00
FD1280-A33XXE	12	0.09	1.56	2700	34.18	0.10	28.20

* All readings are typical value at rated voltage.

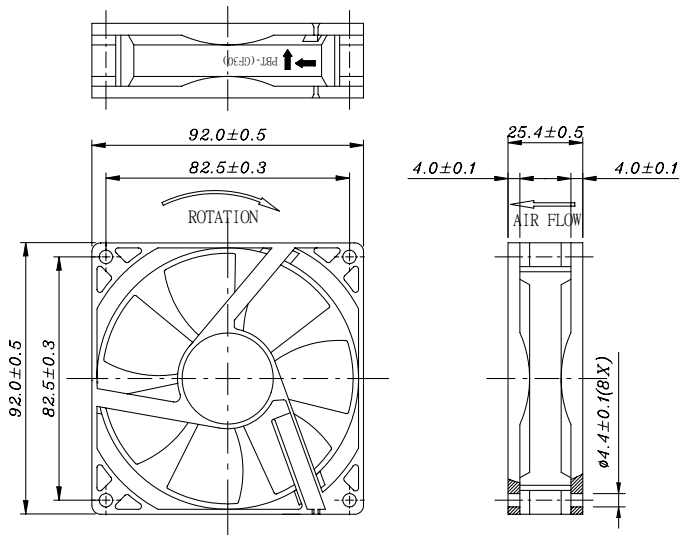
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

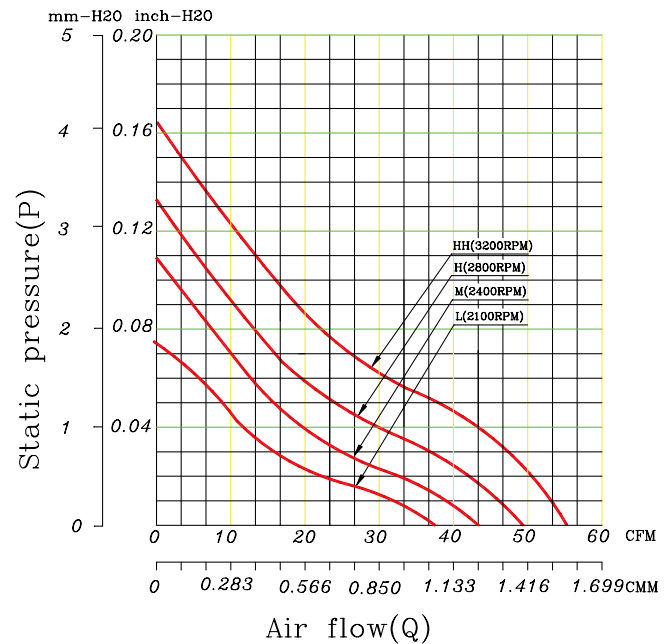
* Please specify revision number when ordering.

92 x 92 x 25 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 90 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1290-A00XXE	12	0.29	3.48	3200	56.61	0.15	37.00
FD1290-A10XXE	12	0.25	3.00	2800	49.97	0.13	34.50
FD1290-A20XXE	12	0.18	2.16	2400	43.33	0.11	31.00
FD1290-A30XXE	12	0.13	1.56	2100	37.47	0.07	28.00
FD2490-A00XXE	24	0.32	7.68	3200	56.61	0.15	37.00
FD2490-A10XXE	24	0.22	5.28	2800	49.97	0.13	34.50
FD2490-A20XXE	24	0.14	3.36	2400	43.33	0.11	31.00
FD2490-A30XXE	24	0.10	2.40	2100	37.47	0.07	28.00

* All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

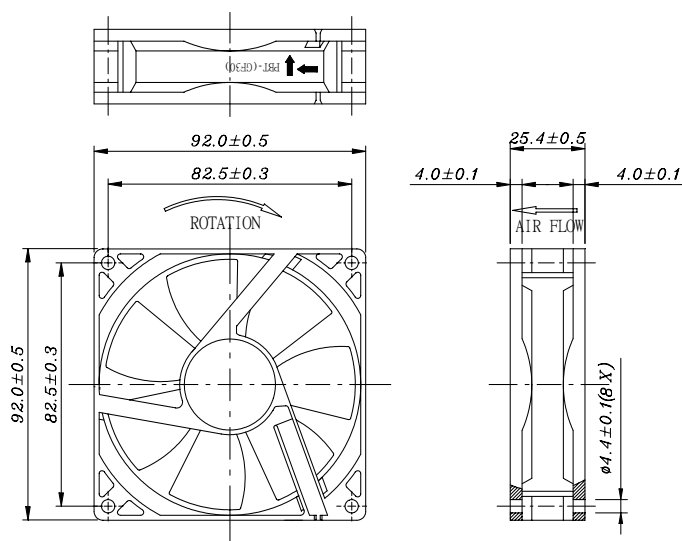
* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

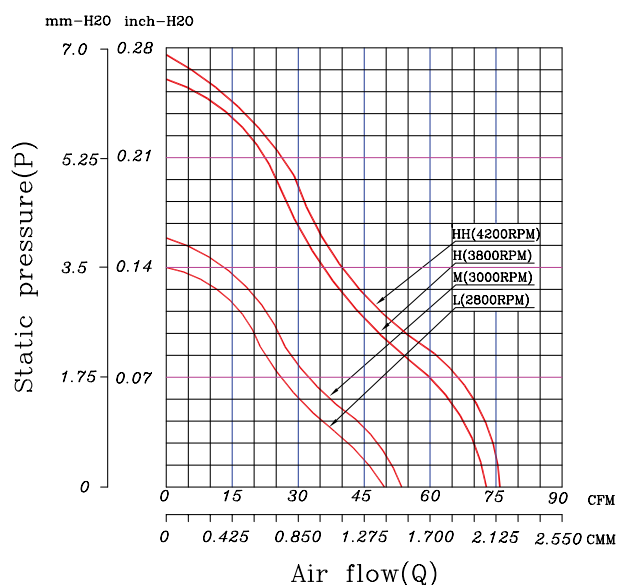
92 x 92 x 25 mm Series

Rev II- 12 VDC

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 90 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	* Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1290-AP1XXE	12	0.50	6.00	4200	75.88	0.27	50.40
FD1290-A01XXE	12	0.50	6.00	4200	75.88	0.27	50.40
FD1290-A11XXE	12	0.37	4.44	3800	72.79	0.26	47.30
FD1290-A21XXE	12	0.21	2.52	3000	53.68	0.16	40.40
FD1290-A31XXE	12	0.18	2.16	2800	49.74	0.14	38.50

* All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

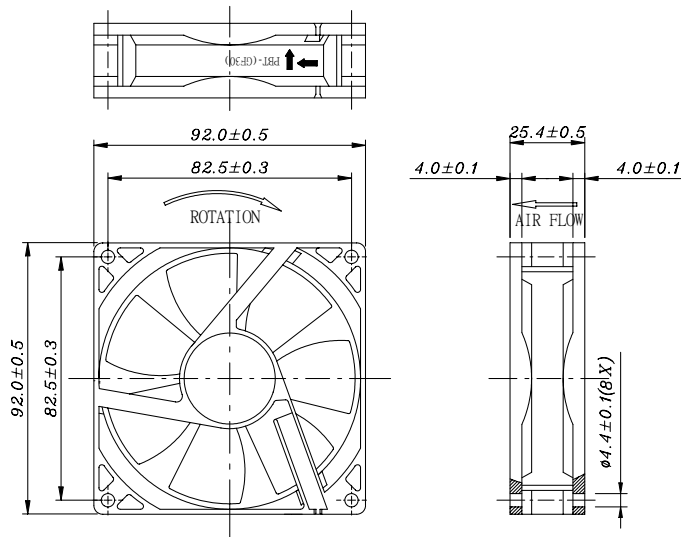
* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

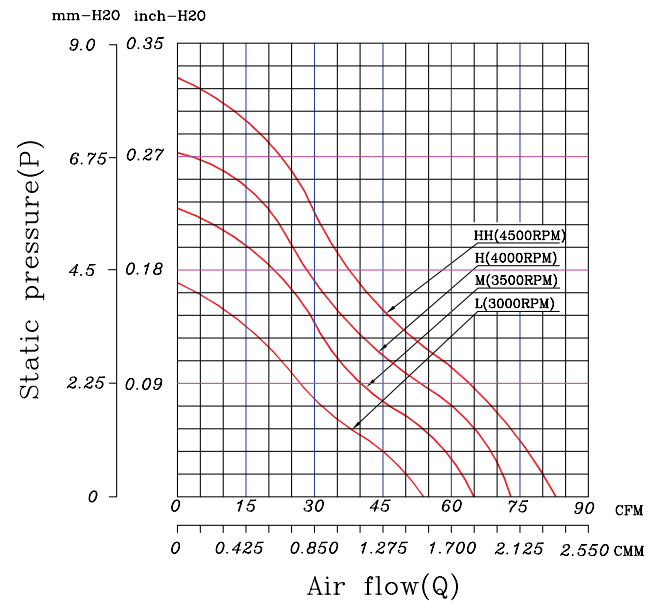
92 x 92 x 25 mm Series

Rev V- 24 VDC

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 90 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H2O)	Noise Level (dBA)
FD1290-A04XXE	24	0.23	5.52	4500	82.88	0.33	50.90
FD1290-A14XXE	24	0.17	4.08	4000	73.00	0.27	47.70
FD1290-A24XXE	24	0.13	3.12	3500	64.94	0.23	43.80
FD1290-A34XXE	24	0.09	2.16	3000	53.68	0.16	40.40

* All readings are typical value at rated voltage.

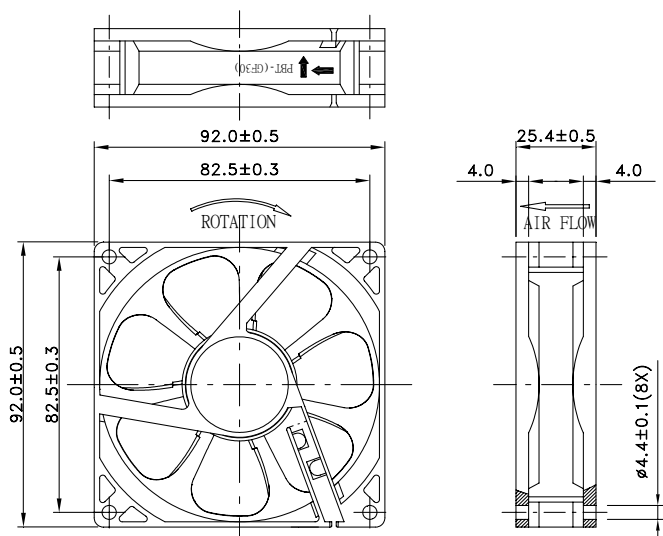
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

92 x 92 x 25 mm Series

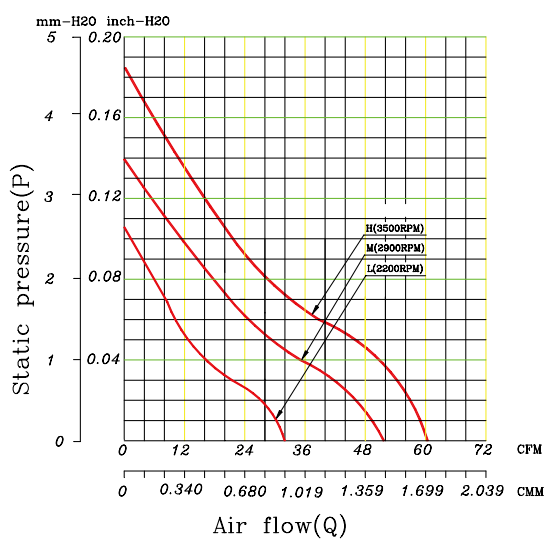
Dimensions



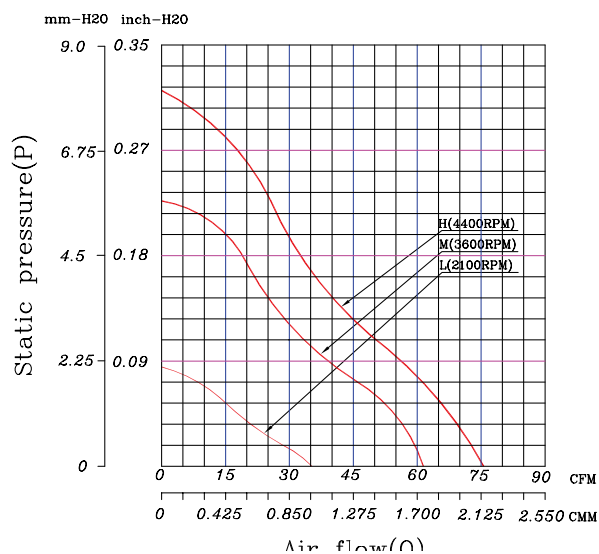
Rev VI

Rev VII

Performance Curves



Performance Curves



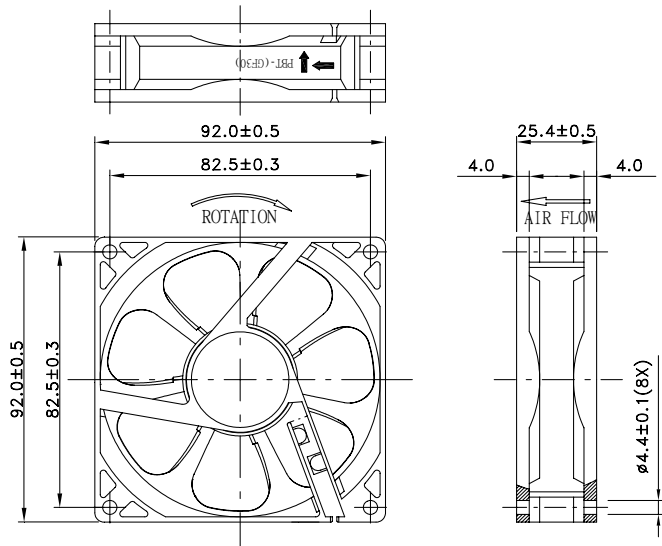
Specifications

Model	TYPE	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H2O)	Noise Level (dBA)
FD1290-A15XXE	VI	12	0.31	3.72	3500	60.48	0.18	40.90
FD1290-A25XXE	VI	12	0.20	2.40	2900	51.69	0.14	38.50
FD1290-A35XXE	VI	12	0.09	1.08	2200	39.04	0.08	30.70
FD1290-AP6XXE	VII	12	0.47	5.64	4400	75.59	0.32	49.70
FD1290-A16XXE	VII	12	0.47	5.64	4400	75.59	0.32	49.70
FD1260-A26XXE	VII	12	0.27	3.24	3600	61.45	0.22	44.00
FD1260-A36XXE	VII	12	0.09	1.08	2100	35.32	0.08	27.60

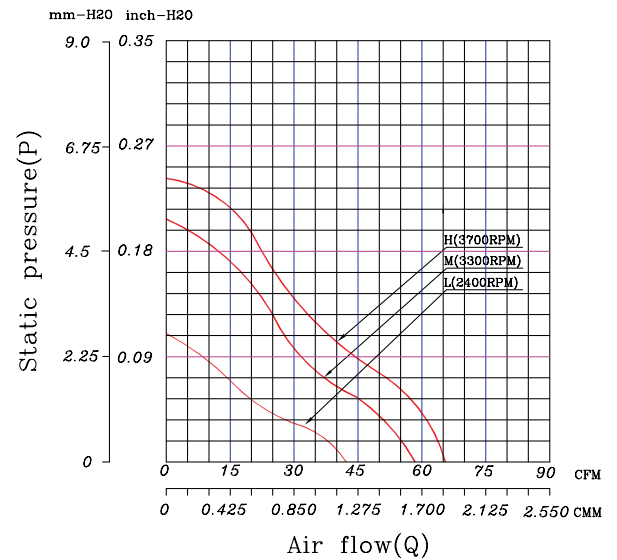
92 x 92 x 25 mm Series

Rev VIII- 12 VDC

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 90 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H2O)	Noise Level (dBA)
FD1290-A17XXE	12	0.37	4.44	3700	65.52	0.24	45.70
FD1290-A27XXE	12	0.23	2.76	3300	59.71	0.20	43.80
FD1290-A37XXE	12	0.09	1.08	2400	42.27	0.11	32.40

* All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

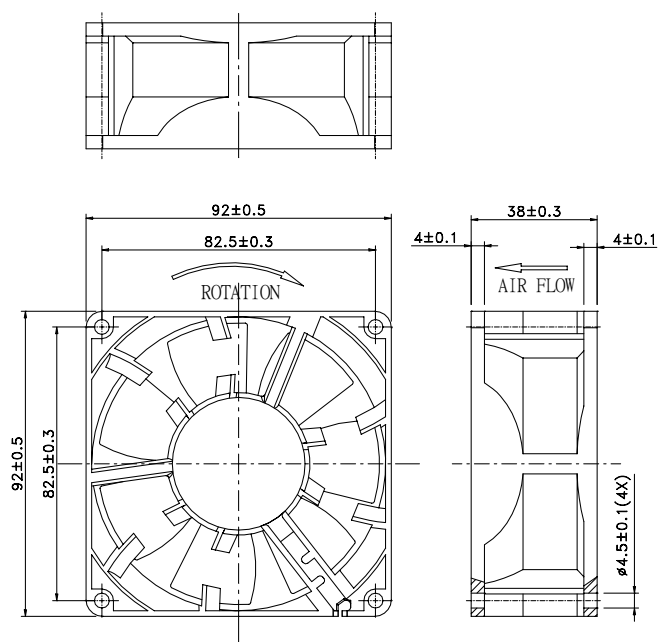
* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

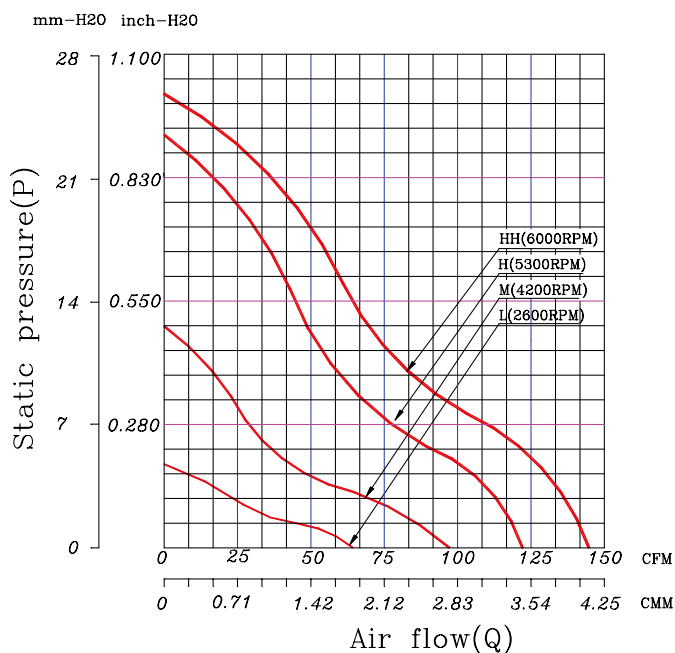
92 x 92 x 38 mm Series

48 VDC

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type	Function options
Housing: PBT 94V0	● CeraDyna A	● Frequency Generator
Impeller: PBT 94V0	○ 2-Ball	● Auto Restart
Weight: 150 g	○ 1-Ball-1-Sleeve	● Temperature Control
Impedance protected	● Sleeve	● Rotation Detection
Lead wire UL 1007 AWG 24	* Please contact us for CeraDyna-C availability.	* Please contact us for PWM function availability.
		* Safety Approval: CE, UL, TUV

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD4890-A00XXG	48	1.95	23.40	6000	145.39	1.02	60.60
FD4890-A10XXG	48	1.45	17.40	5000	122.18	0.92	56.80
FD4890-A20XXG	48	0.85	10.20	4000	97.14	0.49	48.30
FD4890-A30XXG	48	0.70	8.40	3500	64.05	0.19	34.00

*All readings are typical value at rated voltage.

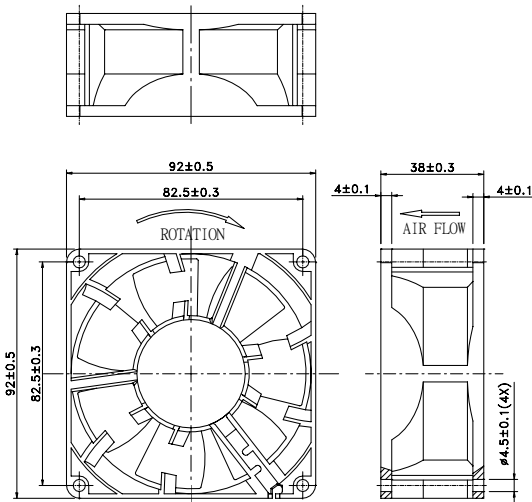
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

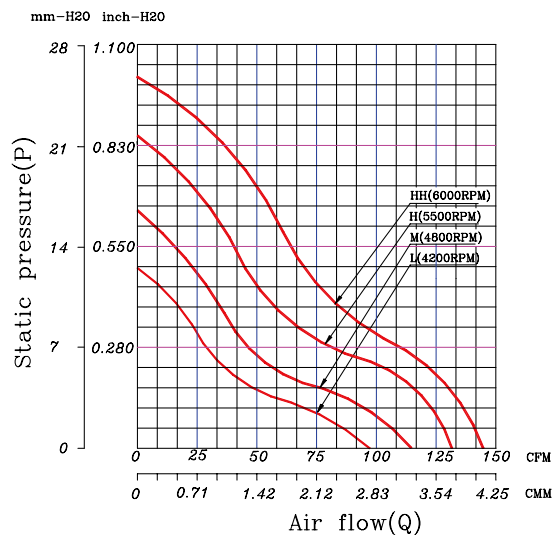
92 x 92 x 38 mm FD Series

Dimensions



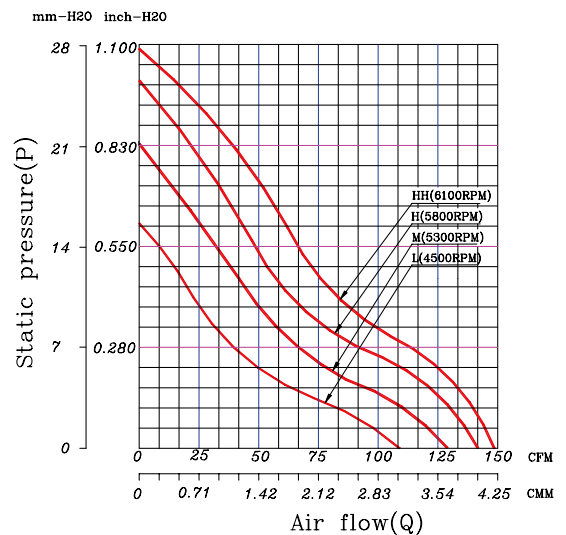
12 VDC

Performance Curves



24 VDC

Performance Curves



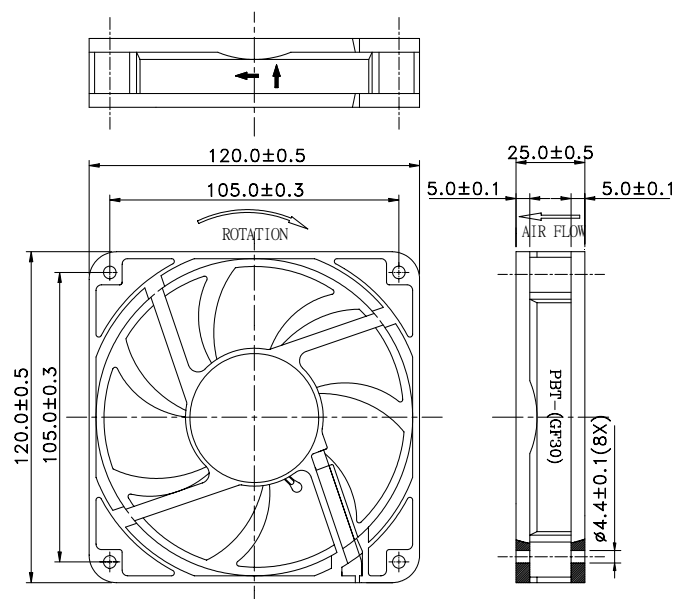
Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H2O)	Noise Level (dBA)
FD1290-AP1XXG	12	2.45	29.40	6000	145.39	1.02	60.60
FD1290-A01XXG	12	2.45	29.40	6000	145.39	1.02	60.60
FD1290-A11XXG	12	1.75	21.00	5500	131.58	0.85	57.60
FD1290-A21XXG	12	1.25	15.00	4800	114.74	0.65	54.90
FD1290-A31XXG	12	0.75	9.00	4200	97.14	0.49	48.30
FD2490-AP1XXG	24	0.96	23.04	6100	148.90	1.09	60.90
FD2490-A01XXG	24	0.95	22.80	6100	148.90	1.09	60.90
FD2490-A11XXG	24	0.86	20.64	5800	141.75	1.00	59.80
FD2490-A21XXG	24	0.68	16.32	5300	128.33	0.83	56.80
FD2490-A31XXG	24	0.42	10.08	4500	109.16	0.61	49.80

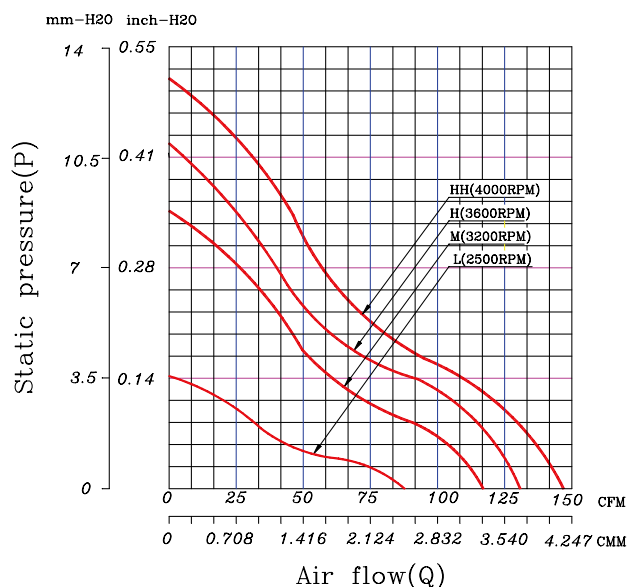
120 x 120 x 25 mm Series

Rev III

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 200 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	* Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
○ Temperature Control	○ Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1212-AP2XXE	12	0.85	10.2	4000	146.97	0.51	52.20
FD1212-A02XXE	12	0.85	10.2	4000	146.97	0.51	52.20
FD1212-A12XXE	12	0.67	8.04	3600	131.03	0.43	49.90
FD1212-A22XXE	12	0.45	5.40	3200	117.05	0.35	48.30
FD1212-A32XXE	12	0.29	3.48	2500	87.80	0.14	42.00
FD2412-AP2XXE	24	0.47	11.28	4000	146.97	0.51	52.20
FD2412-A02XXE	24	0.47	11.28	4000	146.97	0.51	52.20
FD2412-A12XXE	24	0.33	7.92	3600	131.03	0.43	49.90
FD2412-A22XXE	24	0.27	6.48	3200	117.05	0.35	48.30
FD2412-A32XXE	24	0.17	4.08	2500	87.80	0.14	42.00

*All readings are typical value at rated voltage.

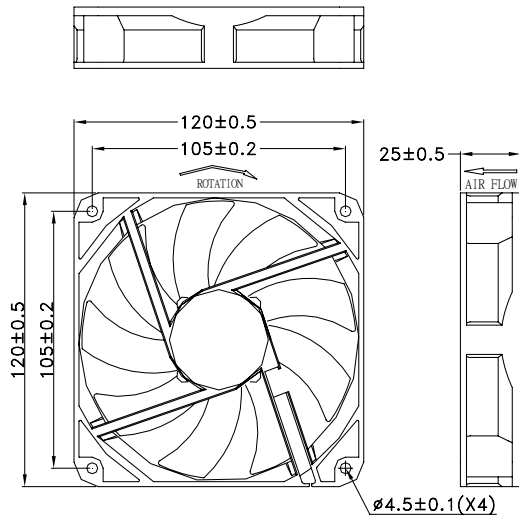
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

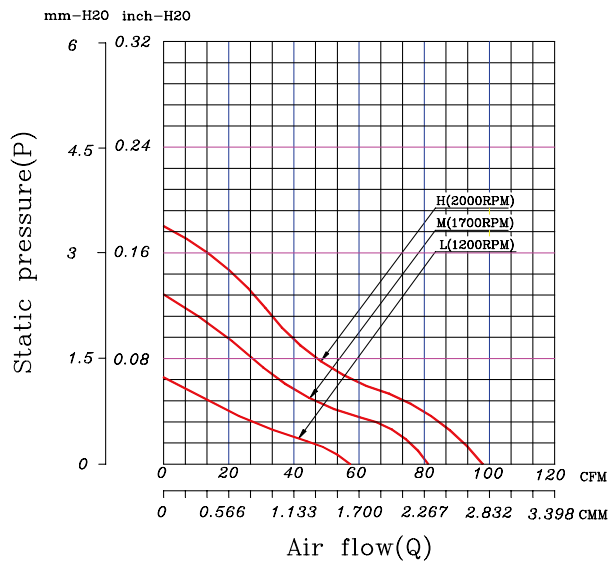
120 x 120 x 25 mm Series

Dimensions



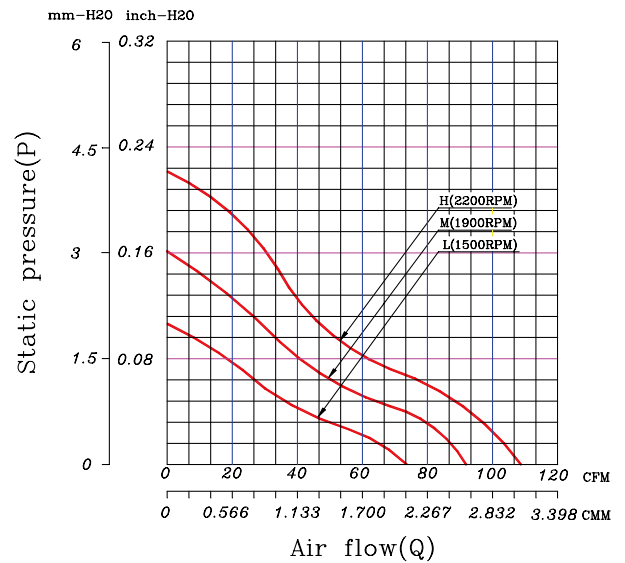
Rev V

Performance Curves



Rev VI

Performance Curves

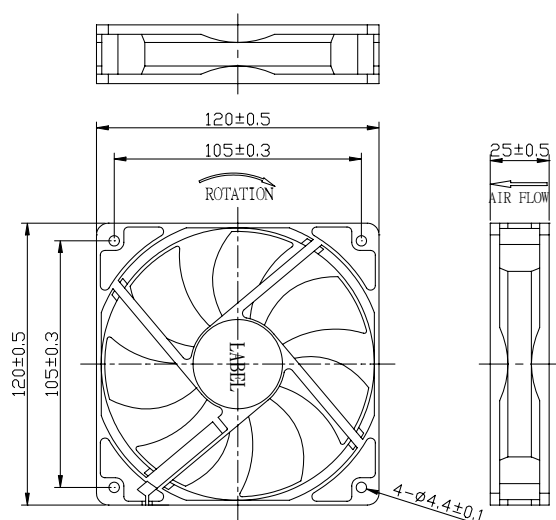


Specifications

Model	TYPE	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1212-AL4XXE	V	12	0.41	4.92	2000	97.29	0.13	40.00
FD1212-A14XXE	V	12	0.37	4.44	2000	97.29	0.13	40.00
FD1212-A24XXE	V	12	0.23	2.76	1700	81.27	0.09	35.40
FD1212-A34XXE	V	12	0.09	1.08	1200	57.53	0.05	23.50
FD1212-AP5XXE	VI	12	0.46	5.52	2200	108.78	0.16	42.80
FD1212-A15XXE	VI	12	0.46	5.52	2200	108.78	0.16	42.80
FD1212-A25XXE	VI	12	0.31	3.72	1900	92.01	0.12	38.40
FD1212-A35XXE	VI	12	0.18	2.16	1500	73.44	0.08	30.50

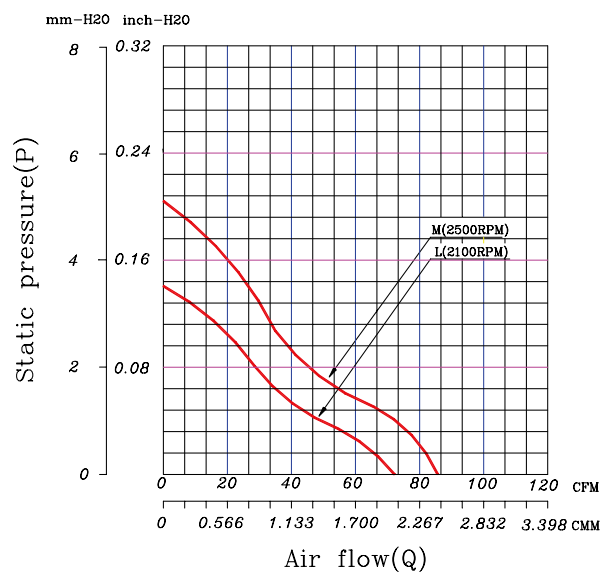
120 x 120 x 25 mm Series

Dimensions



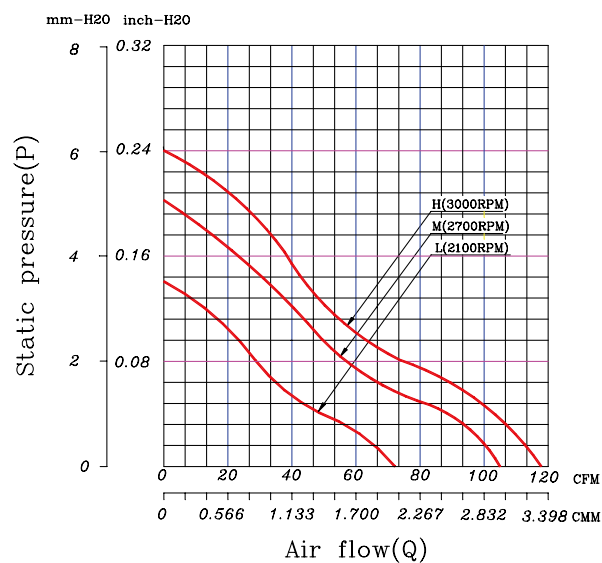
Rev II

Performance Curves



Rev IV

Performance Curves

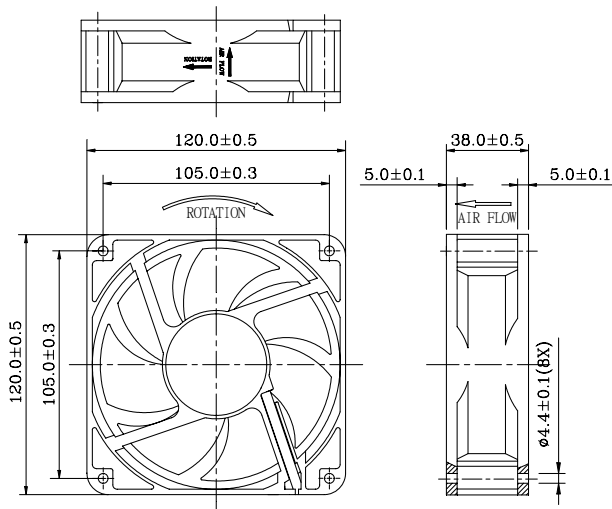


Specifications

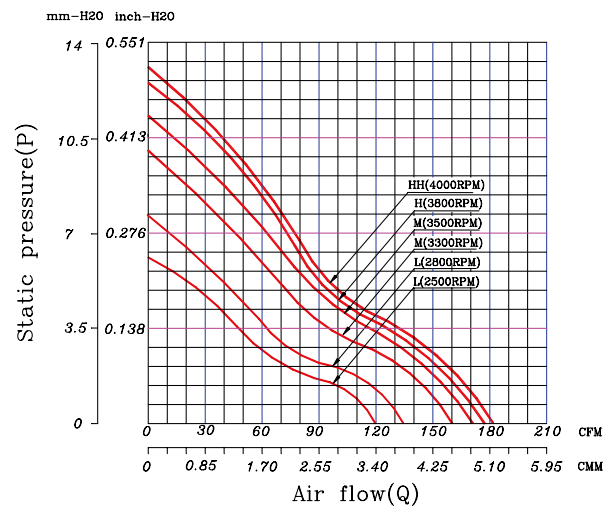
Model	TYPE	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1212-A21XXE	II	12	0.34	4.08	2500	87.80	0.14	42.00
FD1212-A31XXE	II	12	0.32	3.84	2100	73.70	0.12	38.00
FD1212-AP3XXE	IV	12	0.50	6.00	3000	117.08	0.24	49.30
FD1212-A13XXE	IV	12	0.50	6.00	3000	117.08	0.24	49.30
FD1212-A23XXE	IV	12	0.35	4.20	2700	104.60	0.20	44.50
FD1212-A33XXE	IV	12	0.18	2.16	2100	73.70	0.12	38.00

120 x 120 x 38 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	○ CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 270 g	○ 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

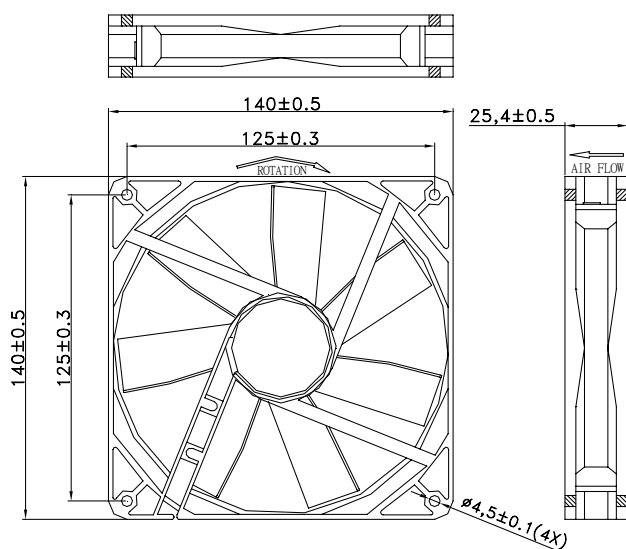
*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

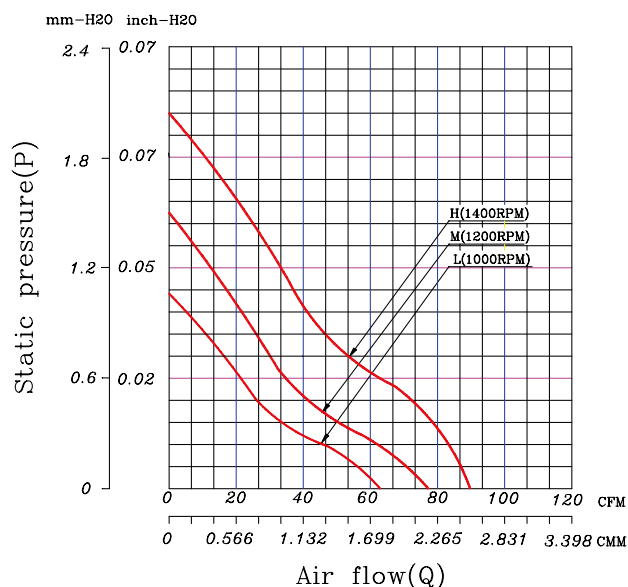
Model	TYPE	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1212-DP2XXG	III	12	1.5	18.0	4000	181.89	0.52	62.40
FD1212-D02XXG	III	12	1.5	18.0	4000	181.89	0.52	62.40
FD1212-D12XXG	III	12	1.2	14.4	3800	177.51	0.49	61.70
FD1212-D22XXG	III	12	0.90	10.8	3500	170.78	0.45	60.90
FD1212-D32XXG	III	12	0.41	4.90	2500	119.61	0.24	51.50
FD2412-DP2XXG	III	24	0.87	20.8	4000	181.89	0.52	59.40
FD2412-D02XXG	III	24	0.87	20.8	4000	181.89	0.52	59.40
FD2412-D12XXG	III	24	0.64	15.4	3800	177.51	0.49	57.60
FD2412-D22XXG	III	24	0.50	12.0	3300	161.02	0.40	54.90
FD2412-D32XXG	III	24	0.30	7.20	2800	133.96	0.30	47.70
FD4812-DP1XXG	II	48	0.40	19.2	4000	181.89	0.52	59.40
FD4812-D01XXG	II	48	0.40	19.2	4000	181.89	0.52	59.40
FD4812-D11XXG	II	48	0.31	14.8	3800	177.51	0.49	57.60
FD4812-D21XXG	II	48	0.22	10.5	3300	161.02	0.40	54.90
FD4812-D31XXG	II	48	0.13	6.24	2500	119.61	0.24	51.50

140 x 140 x 25 mm Series

Dimensions



Performance Curves



Air exhaust over struts. Rotational direction CCW looking at rotor

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 150 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	* Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
○ Temperature Control	○ Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FD1214-A10XXE	12	0.32	3.84	1400	88.55	0.08	34.80
FD1214-A20XXE	12	0.20	2.40	1200	75.90	0.06	31.50
FD1214-A30XXE	12	0.12	1.44	1000	62.09	0.04	27.50

* All readings are typical value at rated voltage.

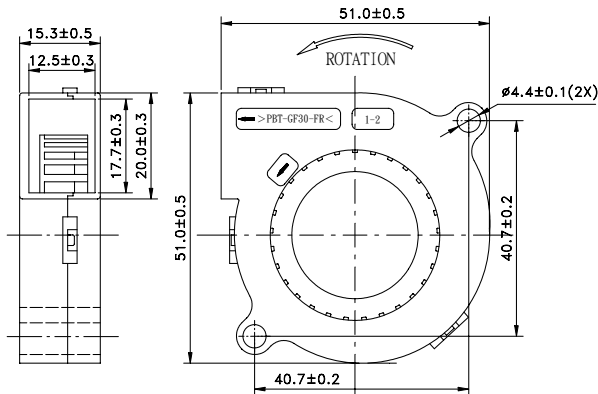
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

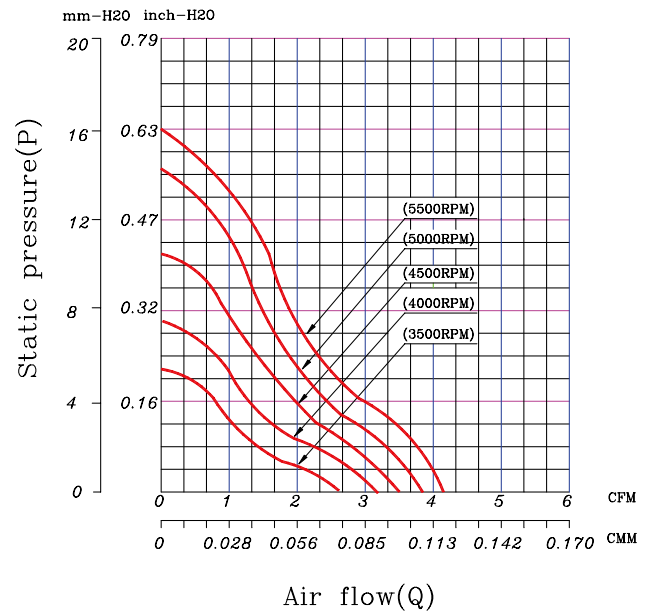
* Please specify revision number when ordering.

51 x 51 x 15 mm Blowers

Dimensions



Performance Curves



Air exhaust radial, through housing port. Rotational direction CW looking at rotor.

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 25 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 26	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FW0551-A10XXC	5	0.22	1.10	4500	3.50	0.41	30.00
FW0551-A20XXC	5	0.16	0.80	4000	3.20	0.22	27.00
FW0551-A30XXC	5	0.10	0.50	3500	2.80	0.21	23.00
FW1251-A10XXC	12	0.27	3.24	5500	4.10	0.63	37.00
FW1251-A20XXC	12	0.22	2.64	5000	3.80	0.52	34.00
FW1251-A30XXC	12	0.17	2.04	4500	3.50	0.41	31.00

* All readings are typical value at rated voltage.

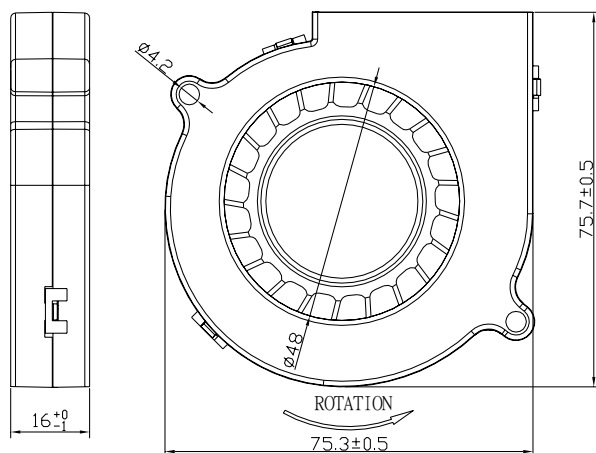
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

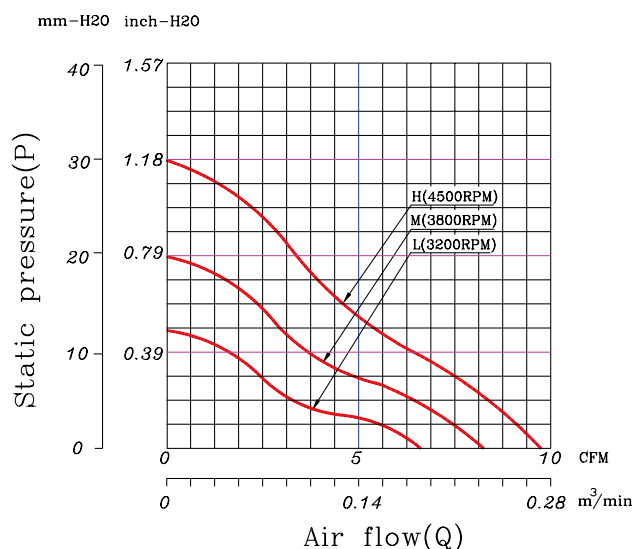
* Please specify revision number when ordering.

75 x 75 x 15 mm Blowers

Dimensions



Performance Curves



Air exhaust radial, through housing port. Rotational direction CW looking at rotor.

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	○ 2-Ball
Weight: 55 g	○ 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FW1275-AP0XXC	12	0.46	5.52	4500	9.74	1.18	53.00
FW1275-A10XXC	12	0.46	5.52	4500	9.74	1.18	53.00
FW1275-A20XXC	12	0.31	3.72	3800	8.25	0.78	47.70
FW1275-A30XXC	12	0.18	2.16	3200	6.61	0.48	43.10

*All readings are typical value at rated voltage.

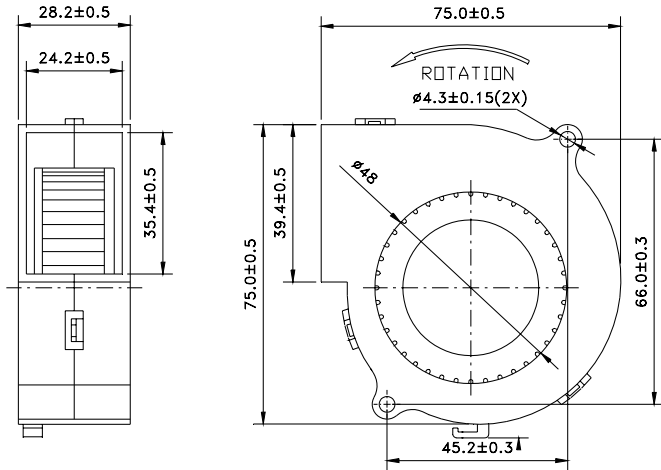
*Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

*Specifications are subject to change without prior notice.

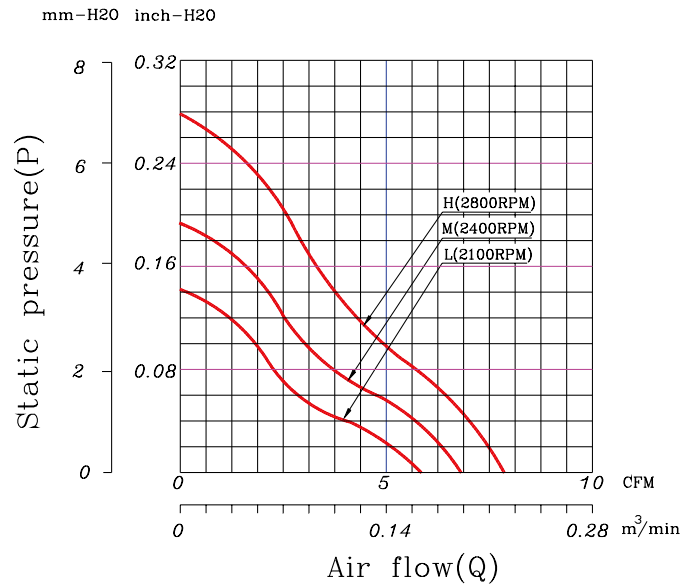
*Please specify revision number when ordering.

75 x 75 x 28 mm Blowers

Dimensions



Performance Curves



Air exhaust radial, through housing port. Rotational direction CW looking at rotor.

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	● 2-Ball
Weight: 80 g	● 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	*Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

* All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FW1275-A10XXE	12	0.20	2.40	2800	7.86	0.27	36.00
FW1275-A20XXE	12	0.12	1.44	2400	6.76	0.19	31.00
FW1275-A30XXE	12	0.11	1.32	2100	5.98	0.14	26.50

* All readings are typical value at rated voltage.

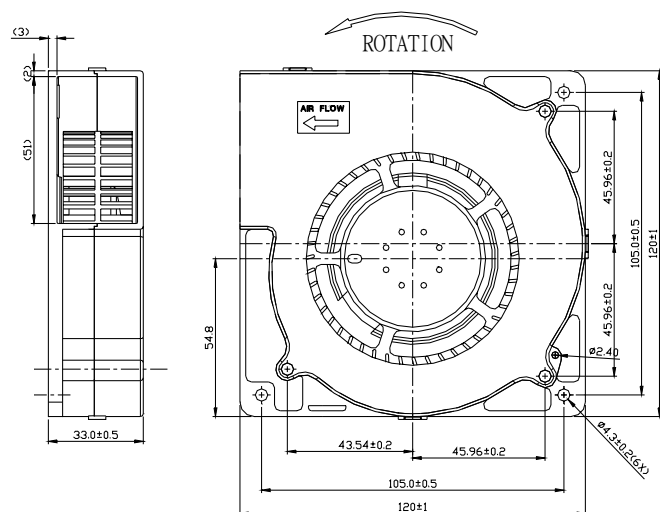
* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

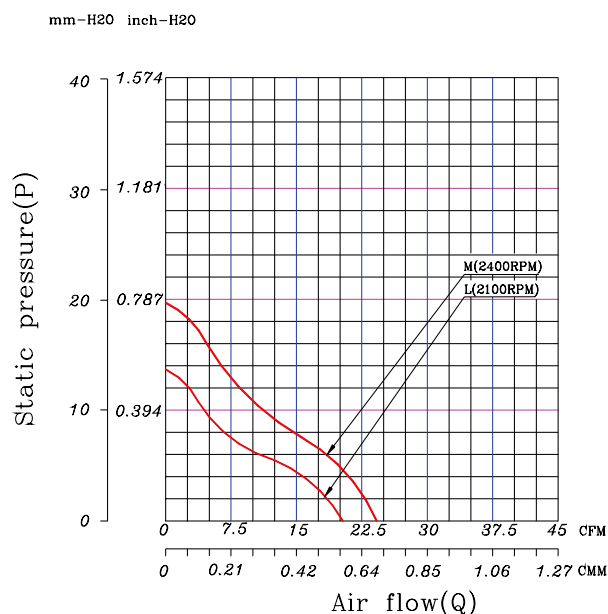
* Please specify revision number when ordering.

120 x 120 x 33 mm Blowers

Dimensions



Performance Curves



Air exhaust radial, through housing port. Rotational direction CW looking at rotor.

Brushless DC Motor	Bearing Type
Housing: PBT 94V0	● CeraDyna A
Impeller: PBT 94V0	○ 2-Ball
Weight: 250 g	○ 1-Ball-1-Sleeve
Impedance protected	● Sleeve
Lead wire UL 1007 AWG 24	* Please contact us for CeraDyna-C availability.

Function options	
● Frequency Generator	● Auto Restart
● Temperature Control	● Rotation Detection

* Please contact us for PWM function availability.

* **Safety Approval: CE, UL, TUV**

*All fans are with electronic protection against reverse polarity. The fan only operates when the polarity is correct.

Specifications

Model	Rated Voltage (VDC)	Rated Current (Amp)	Input Power (Watts)	Nominal Speed (RPM)	Airflow (CFM)	Static Pressure (inch-H ₂ O)	Noise Level (dBA)
FW1212-A20XXF	12	0.60	7.20	2400	24.40	0.77	47.53
FW1212-A30XXF	12	0.45	5.40	2000	20.33	0.54	43.40

*All readings are typical value at rated voltage.

* Please refer to **PART NUMBER SYSTEM** for bearing type and part number "XX" designation.

* Specifications are subject to change without prior notice.

* Please specify revision number when ordering.

Model Name		Revision	Voltage	Dimention		RPM	Current (mA)	Air Flow (CFM)	Pressure (mm-H2O)	Noise (dBA)
				Width	Thickness					
3010	FD0530-A10XXA	I	5	30	10	8000	0.18	3.68	3.14	24.50
3010	FD0530-A20XXA	I	5	30	10	7000	0.12	3.11	2.37	23.50
3010	FD0530-A30XXA	I	5	30	10	6000	0.09	2.55	1.67	22.50
3010	FD1230-A10XXA	I	12	30	10	8000	0.09	3.68	3.14	24.50
3010	FD1230-A20XXA	I	12	30	10	7000	0.08	3.11	2.37	23.50
3010	FD1230-A30XXA	I	12	30	10	6000	0.06	2.55	1.67	22.50
4010	FD1240-A12XXA	III	12	40	10	6500	0.13	7.20	3.52	33.00
4010	FD1240-A22XXA	III	12	40	10	5500	0.11	6.11	2.51	27.50
4010	FD1240-A32XXA	III	12	40	10	4500	0.09	4.98	1.97	23.50
4020	FD1240-A01XXD	II	12	40	20	9000	0.24	12.71	8.26	33.00
4020	FD1240-A11XXD	II	12	40	20	8000	0.20	11.30	7.46	31.00
4020	FD1240-A21XXD	II	12	40	20	7000	0.16	9.89	6.65	27.00
4020	FD1240-A31XXD	II	12	40	20	6000	0.12	8.48	5.84	23.00
4028	FD1240-A00XXM	I	12	40	28	9000	0.35	16.65	12.80	41.00
4028	FD1240-A10XXM	I	12	40	28	8000	0.28	14.80	9.80	36.00
4028	FD1240-A20XXM	I	12	40	28	7000	0.22	12.95	9.00	33.00
4028	FD1240-A30XXM	I	12	40	28	6000	0.18	11.10	7.70	29.00
5010	FD1250-A10XXA	I	12	50	10	5400	0.13	10.16	3.34	31.50
5010	FD1250-A20XXA	I	12	50	10	4500	0.10	8.55	2.32	26.50
5010	FD1250-A30XXA	I	12	50	10	4000	0.08	7.63	1.84	23.50
5015	FD1250-A10XXC	I	12	50	15	5000	0.17	11.20	3.03	33.10
5015	FD1250-A20XXC	I	12	50	15	4500	0.14	9.74	2.41	30.10
5015	FD1250-A30XXC	I	12	50	15	4000	0.12	8.33	1.89	27.50
5015	FD1250-A11XXC	II	12	50	15	6500	0.22	16.57	6.17	39.00
5015	FD1250-A21XXC	II	12	50	15	5500	0.16	14.38	4.82	34.80
5015	FD1250-A31XXC	II	12	50	15	4500	0.10	11.54	3.25	28.50
6010	FD1260-A01XXA	II	12	60	10	5200	0.37	23.70	4.60	38.00
6010	FD1260-A11XXA	II	12	60	10	4300	0.29	19.60	3.40	30.00
6010	FD1260-A21XXA	II	12	60	10	3600	0.22	16.41	2.48	27.00
6010	FD1260-A31XXA	II	12	60	10	3000	0.14	13.67	2.07	23.00
6015	FD1260-A10XXC	I	12	60	15	4500	0.19	20.02	4.25	36.50
6015	FD1260-A20XXC	I	12	60	15	4000	0.16	17.80	3.36	33.50
6015	FD1260-A30XXC	I	12	60	15	3500	0.13	15.57	2.57	30.50
6025	FD1260-A10XXE	I	12	60	25	3600	0.25	15.22	3.47	27.50
6025	FD1260-A20XXE	I	12	60	25	3100	0.16	13.10	2.57	24.50
6025	FD1260-A30XXE	I	12	60	25	2700	0.13	11.41	2.01	23.00
6025	FD1260-A01XXE	II	12	60	25	4500	0.42	19.62	4.95	31.00
6025	FD1260-A11XXE	II	12	60	25	3600	0.25	17.18	3.41	24.00
6025	FD1260-A21XXE	II	12	60	25	3100	0.16	14.42	2.16	23.50
6025	FD1260-A31XXE	II	12	60	25	2700	0.13	12.36	1.56	23.00
6025	FD2460-A04XXE	V	24	60	25	11500	0.50	55.73	24.50	65.50
6025	FD2460-A14XXE	V	24	60	25	10500	0.40	50.88	21.50	60.20
6025	FD2460-A24XXE	V	24	60	25	9000	0.30	43.61	18.54	56.50
6025	FD2460-A34XXE	V	24	60	25	7500	0.20	36.35	14.85	50.40
6025	FD1260-A15XXE	VI	12	60	25	6500	0.55	39.42	11.24	53.90
6025	FD1260-A25XXE	VI	12	60	25	5500	0.40	33.42	8.15	44.30
6025	FD1260-A35XXE	VI	12	60	25	4500	0.20	26.99	5.21	43.10
6025	FD1260-A16XXE	VII	12	60	25	7000	0.36	32.71	13.20	48.00
6025	FD1260-A26XXE	VII	12	60	25	6000	0.24	29.08	9.18	45.50
6025	FD1260-A36XXE	VII	12	60	25	4400	0.12	21.32	4.93	38.80
6038	FD4860-A00XXG	I	48	60	38	12000	0.50	63.84	33.80	65.10
6038	FD4860-A10XXG	I	48	60	38	10500	0.38	55.86	29.58	60.80
6038	FD4860-A20XXG	I	48	60	38	8000	0.26	42.56	22.56	40.80
6038	FD4860-A30XXG	I	48	60	38	5000	0.14	26.60	12.34	38.70
6038	FD2460-A01XXG	II	24	60	38	11500	0.90	61.18	32.40	62.40
6038	FD2460-A11XXG	II	24	60	38	10000	0.70	58.05	30.10	59.50
6038	FD2460-A21XXG	II	24	60	38	8800	0.50	51.70	24.70	55.20
6038	FD2460-A31XXG	II	24	60	38	6800	0.30	37.34	19.09	44.50
6038	FD1260-A01XXG	II	12	60	38	11500	1.80	61.18	32.40	62.40
6038	FD1260-A11XXG	II	12	60	38	10000	1.40	58.05	30.10	59.50
6038	FD1260-A21XXG	II	12	60	38	8800	1.00	51.70	24.70	55.20

Model Name		Revision	Voltage	Dimention		RPM	Current (mA)	Air Flow (CFM)	Pressure (mm-H2O)	Noise (dBA)
				Width	Thickness					
6038	FD1260-A31XXG	II	12	60	38	6800	0.60	37.34	19.09	44.50
6038	FD1260-A12XXG	III	12	60	38	7800	0.70	41.49	21.97	48.70
6038	FD1260-A22XXG	III	12	60	38	6500	0.50	34.58	18.31	41.50
6038	FD1260-A32XXG	III	12	60	38	5000	0.30	26.60	12.34	38.70
7010	FD1270-A00XXA	I	12	70	10	4000	0.34	25.56	3.10	42.25
7010	FD1270-A10XXA	I	12	70	10	3000	0.20	19.42	2.06	31.40
7010	FD1270-A20XXA	I	12	70	10	2400	0.13	14.83	1.51	26.50
7010	FD1270-A30XXA	I	12	70	10	1800	0.10	10.59	1.01	20.20
7010	FD0570-A00XXA	I	5	70	10	3200	0.32	20.71	2.20	33.50
7010	FD0570-A10XXA	I	5	70	10	3000	0.22	19.42	2.06	31.50
7010	FD0570-A20XXA	I	5	70	10	2400	0.15	14.83	1.51	26.50
7010	FD0570-A30XXA	I	5	70	10	1800	0.10	10.59	1.01	20.20
7015	FD1270-A11XXC	II	12	70	15	4000	0.33	33.20	3.80	35.00
7015	FD1270-A21XXC	II	12	70	15	3500	0.22	29.10	3.32	32.00
7015	FD1270-A31XXC	II	12	70	15	3000	0.15	25.00	2.85	28.00
7025	FD1270-A00XXE	I	12	70	25	5000	0.38	43.78	7.61	41.00
7025	FD1270-A10XXE	I	12	70	25	4500	0.28	39.40	6.80	39.00
7025	FD1270-A20XXE	I	12	70	25	4000	0.24	36.00	6.04	36.00
7025	FD1270-A30XXE	I	12	70	25	3500	0.19	30.60	5.28	33.00
8010	FD0580-A10XXA	I	5	80	10	2800	0.35	22.52	1.63	25.50
8010	FD0580-A20XXA	I	5	80	10	2500	0.25	20.11	1.30	23.00
8010	FD0580-A30XXA	I	5	80	10	2100	0.15	16.71	0.92	20.00
8015	FD1280-A10XXC	I	12	80	15	3500	0.28	35.77	3.21	35.50
8015	FD1280-A20XXC	I	12	80	15	3000	0.22	31.25	2.36	32.00
8015	FD1280-A30XXC	I	12	80	15	2500	0.16	25.96	1.64	26.50
8020	FD1280-A10XXD	I	12	80	20	2800	0.22	32.21	2.94	29.00
8020	FD1280-A20XXD	I	12	80	20	2400	0.18	27.62	2.16	26.50
8020	FD1280-A30XXD	I	12	80	20	2100	0.16	24.16	1.68	23.00
8025	FD1280-A01XXE	II	12	80	25	3200	0.28	40.61	3.60	35.50
8025	FD1280-A11XXE	II	12	80	25	2800	0.23	35.45	2.91	31.50
8025	FD1280-A21XXE	II	12	80	25	2400	0.18	30.19	2.34	27.50
8025	FD1280-A31XXE	II	12	80	25	2100	0.11	26.20	1.65	22.50
8025	FD2480-A01XXE	II	24	80	25	3200	0.20	40.61	3.60	35.50
8025	FD2480-A11XXE	II	24	80	25	2800	0.17	35.45	2.91	31.50
8025	FD2480-A21XXE	II	24	80	25	2400	0.13	30.19	2.34	27.50
8025	FD2480-A31XXE	II	24	80	25	2100	0.10	26.20	1.65	22.50
8025	FD1280-A12XXE	III	12	80	25	5300	0.55	65.69	9.58	51.50
8025	FD1280-A22XXE	III	12	80	25	4600	0.40	55.80	7.01	47.50
8025	FD1280-A32XXE	III	12	80	25	3800	0.25	45.20	4.98	42.00
8025	FD2480-A02XXE	III	24	80	25	5500	0.25	68.16	9.94	53.30
8025	FD2480-A12XXE	III	24	80	25	5000	0.20	61.97	9.03	49.30
8025	FD2480-A22XXE	III	24	80	25	4500	0.15	55.77	6.78	46.20
8025	FD2480-A32XXE	III	24	80	25	3500	0.10	43.38	4.53	40.10
8025	FD1280-A13XXE	IV	12	80	25	4500	0.40	55.77	6.54	46.50
8025	FD1280-A23XXE	IV	12	80	25	4000	0.25	42.11	5.29	44.00
8025	FD1280-A33XXE	IV	12	80	25	2700	0.10	34.18	2.70	28.20
9225	FD1290-A00XXE	I	12	92	25	3200	0.38	56.61	3.83	37.00
9225	FD1290-A10XXE	I	12	92	25	2800	0.30	49.97	3.27	34.50
9225	FD1290-A20XXE	I	12	92	25	2400	0.25	43.33	2.71	31.00
9225	FD1290-A30XXE	I	12	92	25	2100	0.18	37.47	1.84	28.00
9225	FD2490-A00XXE	I	24	92	25	3200	0.35	56.61	3.83	37.00
9225	FD2490-A10XXE	I	24	92	25	2800	0.25	49.97	3.27	34.50
9225	FD2490-A20XXE	I	24	92	25	2400	0.16	43.33	2.71	31.00
9225	FD2490-A30XXE	I	24	92	25	2100	0.12	37.47	1.84	28.00
9225	FD1290-A01XXE	II	12	92	25	4200	0.55	75.88	6.89	50.40
9225	FD1290-A11XXE	II	12	92	25	3800	0.40	72.79	6.50	47.30
9225	FD1290-A21XXE	II	12	92	25	3000	0.26	53.68	3.97	40.40
9225	FD1290-A31XXE	II	12	92	25	2800	0.23	49.74	3.50	38.50
9225	FD2490-A04XXE	V	24	92	25	4500	0.28	82.88	8.32	50.90
9225	FD2490-A14XXE	V	24	92	25	4000	0.20	73.00	6.83	47.70

Model Name		Revision	Voltage	Dimention		RPM	Current (mA)	Air Flow (CFM)	Pressure (mm-H2O)	Noise (dBA)
				Width	Thickness					
9225	FD2490-A24XXE	V	24	92	25	3500	0.15	64.94	5.72	43.80
9225	FD2490-A34XXE	V	24	92	25	3000	0.10	53.68	3.97	40.40
9225	FD1290-A15XXE	VI	12	92	25	3500	0.36	60.48	4.59	40.90
9225	FD1290-A25XXE	VI	12	92	25	2900	0.24	51.69	3.48	38.50
9225	FD1290-A35XXE	VI	12	92	25	2200	0.12	39.04	2.15	30.70
9225	FD1290-A16XXE	VII	12	92	25	4400	0.50	75.59	8.03	49.70
9225	FD1290-A26XXE	VII	12	92	25	3600	0.30	61.45	5.67	44.00
9225	FD1290-A36XXE	VII	12	92	25	2100	0.10	35.32	2.12	27.60
9225	FD1290-A17XXE	VIII	12	92	25	3700	0.40	65.52	6.06	45.70
9225	FD1290-A27XXE	VIII	12	92	25	3300	0.25	59.71	5.19	43.80
9225	FD1290-A37XXE	VIII	12	92	25	2400	0.10	42.27	2.75	32.40
9238	FD1290-A01XXG	II	12	92	38	6000	2.60	145.39	25.80	60.60
9238	FD1290-A11XXG	II	12	92	38	5500	2.00	131.58	21.70	57.60
9238	FD1290-A21XXG	II	12	92	38	4800	1.40	114.74	16.50	54.90
9238	FD1290-A31XXG	II	12	92	38	4200	0.80	97.14	12.57	48.30
9238	FD2490-A01XXG	II	24	92	38	6100	1.20	148.90	27.70	60.60
9238	FD2490-A11XXG	II	24	92	38	5800	1.00	141.75	25.50	59.80
9238	FD2490-A21XXG	II	24	92	38	5300	0.80	128.33	21.10	56.80
9238	FD2490-A31XXG	II	24	92	38	4500	0.60	109.16	15.60	49.80
9238	FD4890-A00XXG	I	48	92	38	6000	0.60	145.39	25.80	60.60
9238	FD4890-A10XXG	I	48	92	38	5300	0.45	122.18	23.37	56.80
9238	FD4890-A20XXG	I	48	92	38	4200	0.30	97.14	12.57	48.30
9238	FD4890-A30XXG	I	48	92	38	2600	0.15	64.05	4.75	34.00
12025	FD1212-A21XXE	II	12	120	25	2500	0.36	87.80	3.57	42.00
12025	FD1212-A31XXE	II	12	120	25	2100	0.32	73.70	3.00	38.00
12025	FD1212-A02XXE	III	12	120	25	4000	0.85	146.97	13.00	52.20
12025	FD1212-A12XXE	III	12	120	25	3600	0.67	131.03	10.94	49.90
12025	FD1212-A22XXE	III	12	120	25	3200	0.45	117.05	8.80	48.30
12025	FD1212-A32XXE	III	12	120	25	2500	0.29	87.80	3.57	42.00
12025	FD2412-A02XXE	III	24	120	25	4000	0.47	146.97	13.00	52.20
12025	FD2412-A12XXE	III	24	120	25	3600	0.33	131.03	10.94	49.90
12025	FD2412-A22XXE	III	24	120	25	3200	0.27	117.05	8.80	48.30
12025	FD2412-A32XXE	III	24	120	25	2500	0.17	87.80	3.57	42.00
12025	FD1212-AP3XXE	IV	12	120	25	3000	0.55	117.08	5.99	49.30
12025	FD1212-A13XXE	IV	12	120	25	3000	0.55	117.08	5.99	49.30
12025	FD1212-A23XXE	IV	12	120	25	2700	0.40	104.60	5.06	44.50
12025	FD1212-A33XXE	IV	12	120	25	2100	0.20	73.70	3.00	38.00
12025	FD1212-AP4XXE	V	12	120	25	2000	0.45	97.29	3.38	40.00
12025	FD1212-A14XXE	V	12	120	25	2000	0.40	97.29	3.38	40.00
12025	FD1212-A24XXE	V	12	120	25	1700	0.25	81.27	2.41	35.40
12025	FD1212-A34XXE	V	12	120	25	1200	0.10	57.53	1.24	23.50
12025	FD1212-AP5XXE	VI	12	120	25	2200	0.50	108.78	4.16	42.80
12025	FD1212-A15XXE	VI	12	120	25	2200	0.50	108.78	4.16	42.80
12025	FD1212-A25XXE	VI	12	120	25	1900	0.35	92.01	3.03	38.40
12025	FD1212-A35XXE	VI	12	120	25	1500	0.20	73.44	2.00	30.50
12038	FD1212-D02XXG	III	12	120	38	4000	1.80	181.89	13.10	62.40
12038	FD1212-D12XXG	III	12	120	38	3800	1.40	177.51	12.51	61.70
12038	FD1212-D22XXG	III	12	120	38	3500	1.00	170.78	11.31	60.90
12038	FD1212-D32XXG	III	12	120	38	2500	0.60	119.61	6.12	51.50
12038	FD2412-D02XXG	III	24	120	38	4000	1.00	181.89	13.10	59.40
12038	FD2412-D12XXG	III	24	120	38	3800	0.80	177.51	12.51	57.60
12038	FD2412-D22XXG	III	24	120	38	3300	0.60	161.02	10.05	54.90
12038	FD2412-D32XXG	III	24	120	38	2800	0.40	133.96	7.67	47.70
12038	FD4812-D01XXG	II	48	120	38	4000	0.45	181.89	13.10	59.40
12038	FD4812-D11XXG	II	48	120	38	3800	0.35	177.51	12.51	57.60
12038	FD4812-D21XXG	II	48	120	38	3300	0.25	161.02	10.05	54.90
12038	FD4812-D31XXG	II	48	120	38	2500	0.15	119.61	6.12	51.50
14025	FD1214-A10XXE	I	12	140	25	1400	0.35	88.55	2.04	34.80
14025	FD1214-A20XXE	I	12	140	25	1200	0.25	75.90	1.50	31.50
14025	FD1214-A30XXE	I	12	140	25	1000	0.15	62.09	1.06	27.50

VGA FAN - SPECIFICATIONS

Model	Fan Number	Picture	Revision	Housing Size (LxWxH)	Voltage	Current (Amp) Max	(B) Speed		Air Flow (CFM)	Pressure (mm-H ₂ O)	Noise (dBA)
3210	FS1232-(A)(B)0(X)A		I	Ø32*9.6	12V	0.13	H	6500	3.66	1.71	23.60
						0.11	M	5500	3.10	1.23	20.00
						0.09	L	4500	2.53	0.82	20.00
4009	FE0540-(A)(B)0(X)J FS0540-(A)(B)0(X)J CE0545-(A)(B)0(X)A		I	Ø37*10	5V	0.14	H	5500	5.76	2.20	28.00
	0.13					M	4500	4.71	1.47	23.60	
	0.12					L	3500	3.67	0.89	20.00	
	FE1240-(A)(B)0(X)J FS1240-(A)(B)0(X)J CE1245-(A)(B)0(X)A				12V	0.09	H	5500	5.76	2.20	28.00
						0.08	M	4500	4.71	1.47	23.60
						0.07	L	3500	3.67	0.89	20.00
4010	FS1240-(A)(B)0(X)A		I	Ø37*9.5	12V	0.13	H	6500	7.20	3.52	33.00
						0.11	M	5500	6.11	2.51	27.50
						0.09	L	4500	4.98	1.97	23.50
	FS1240-(A)(B)1(X)A		II	Ø37*9.5	12V	0.13	H	6500	5.80	3.10	28.50
						0.11	M	5500	5.20	2.46	24.50
						0.09	L	4500	4.60	1.90	23.00
4010 VE1267	FS1240-(A)(B)2(X)A FE1240-(A)(B)1(X)A		III	Ø50*11.5	12V	0.09	H	5000	5.76	2.20	32.00
						0.08	M	4000	4.61	1.41	27.20
						0.07	L	3000	3.46	0.79	20.10
4512	FS1245-(A)(B)0(X)B		I	Ø45*9.8	12V	0.22	H	6200	3.55	8.67	30.10
						0.15	M	4500	2.58	4.57	23.10
						0.10	L	3800	2.18	3.26	20.00
						0.22	p	1500~6200	3.55	8.67	30.10
5010	FS0550-(A)(B)0(X)A		I	Ø46*9.8	5V	0.33	H	5500	10.35	3.46	31.90
						0.30	M	5000	9.40	2.86	29.80
						0.21	L	4500	8.55	2.32	26.50
	FS1250-(A)(B)0(X)A				12V	0.19	H	5500	10.35	3.46	31.90
						0.17	M	5000	9.40	2.86	29.80
						0.16	L	4500	8.55	2.32	26.50

VGA FAN - SPECIFICATIONS

Model	Fan Number	Picture	Revision	Housing Size (LxWxH)	Voltage	Current (Amp) Max	(B) Speed		Air Flow (CFM)	Pressure (mm-H ₂ O)	Noise (dBA)
5110 Foot	FS1251-(A)(B)0(X)A		I	Ø51*10.6	12V	0.20	H	3800	6.37	15.33	37.50
						0.15	M	3500	5.87	13.00	35.70
						0.10	L	3000	5.03	9.55	32.30
						0.22	p	3800	6.37	15.33	37.50
5110 Single PCBA	FS1251--(A)(B)0(X)A		I	Ø51*10.6	12V	0.20	H	3800	6.37	15.33	37.50
						0.15	M	3500	5.87	13.00	35.70
						0.10	L	3000	5.03	9.55	32.30
5310	FW1253-(A)(B)0(X)A		I	Ø51*10.6	12V	0.25	P	3400	9.80	18.85	42.30
						0.25	H	3400	9.80	18.85	42.30
						0.16	M	2400	6.92	9.39	34.80
						0.10	L	2000	5.77	6.52	30.80
6010	FS1260-(A)(B)0(X)A		I	Ø55*9.8	12V	0.29	H	3800	13.56	1.87	32.70
						0.25	M	3500	12.49	1.59	30.90
						0.21	L	3000	10.71	1.17	27.50
6512 R570	FS1265-(A)(B)0(X)B		I	Ø65*11.2	12V	0.23	H	2500	7.10	5.13	23.70
						0.15	M	2000	5.69	3.28	20.00
						0.10	L	1700	4.80	2.37	20.00
7010	FS1265-(A)(B)0(X)A		I	Ø65*9.8	12V	0.40	H	5000	31.95	4.84	47.10
						0.25	M	4200	26.84	3.42	43.30
						0.10	L	2700	17.48	1.67	29.10
						0.40	P	2900~5000	31.95	4.84	47.10
	FS1270-(A)(B)0(X)A		I	Ø65*9.8	12V	0.34	H	4200	26.84	3.42	43.30
						0.28	M	3600	23.00	2.51	40.00
						0.20	L	3000	19.42	2.06	31.40

VGA FAN - SPECIFICATIONS

Model	Fan Number	Picture	Revision	Housing Size (LxWxH)	Voltage	Current (Amp) Max	(B) Speed		Air Flow (CFM)	Pressure (mm-H ₂ O)	Noise (dBA)
7025 R670 ICQ3	FW1270-(A)(B)0(X)E		I	Ø70*25	12V	0.40	P	900~3800	19.20	21.69	48.50
						0.40	H	3800	19.20	21.69	48.50
						0.25	M	3200	16.17	15.38	44.80
						0.10	L	2100	10.61	6.62	35.60
7211	FW1272-(A)(B)0(X)A		I	Ø72*10	12V	0.30	P	1000~2100	7.64	8.68	29.20
						0.30	H	2100	7.64	8.68	29.20
						0.18	M	1500	5.40	4.40	21.90
						0.12	L	1300	4.70	3.30	20.00
7522	FS1275-(A)(B)0(X)D		I	Ø74.5*22.5	12V	0.25	P	400~2500	14.60	6.68	45.00
7525 R680	FW1275-(A)(B)1(X)E		II	Ø75*25	12V	1.50	P	700~5400	38.88	60.07	62.90
						1.50	HH	5400	38.88	60.07	62.90
						1.10	H	5000	36.00	51.50	61.20
						0.70	M	4200	30.24	36.34	57.40
						0.30	L	2800	20.16	16.15	48.60
8015	FS1280-(A)(B)0(X)C		I	Ø74*13	12V	0.30	H	4000	40.88	4.19	38.40
						0.20	M	3500	35.77	3.21	35.50
						0.10	L	2300	23.68	1.55	24.50
						0.35	LED	4000	40.88	4.19	38.40
	FS1280-(A)(B)1(X)C		II	Ø74*13	12V	0.45	H	4800	49.05	6.04	42.40
						0.30	M	4200	42.92	4.62	39.50
						0.15	L	3000	31.25	2.36	32.00
						0.45	P	1900~4800	49.05	6.04	42.40
						0.40	T	4500	45.99	5.31	41.00
	FS1280-(A)(B)2(X)C		III	Ø74*13	12V	0.24	H	3000	31.25	2.36	32.00
						0.16	M	2600	27.00	1.77	27.40
						0.10	L	2200	22.65	1.48	24.50

VGA FAN - SPECIFICATIONS

Model	Fan Number	Picture	Revi- sion	Housing Size (LxWxH)	Volt- age	Current (Amp) Max	(B) Speed		Air Flow (CFM)	Pressure (mm- H2O)	Noise (dBA)		
	FS1280-(A)(B)3(X)C FS1280-(A)P3(X)C		IV	Ø74*13	12V	0.45	H	4700	48.03	5.79	41.90		
						0.30	M	4000	40.88	4.19	38.40		
						0.15	L	3200	33.30	2.68	33.40		
						0.45	P	500~4700	48.03	5.79	41.90		
8015	FS1280-(A)(B)4(X)C		V	Ø74*13	12V	0.30	H	3500	35.36	3.63	35.00		
						0.20	M	3000	28.54	2.54	30.20		
						0.10	L	2300	21.63	1.57	22.70		
	FS1280-(A)16(X)C		VII	Ø74*13	12V	0.28	H	4000	41.08	5.00	38.00		
						0.18	M	3400	33.40	3.57	32.90		
						0.08	L	2400	23.23	1.91	22.10		
	FS1280-(A)(B)7(X)C		VIII	Ø74*13	12V	0.35	P	4200	44.17	5.42	38.90		
						0.35	H	4200	44.17	5.42	38.90		
						0.25	M	3600	36.71	3.93	36.40		
						0.15	L	2800	27.93	2.45	28.50		
	8015		FS1280-(A)P5(X)C		VI	Ø75*14.2	12V	0.34	P	4000	44.95	4.24	39.40
								0.34	H	4000	44.95	4.24	39.40
0.24		M						3400	36.60	2.94	37.00		
0.14		L						2400	28.00	1.83	30.00		
9015	FS1290-(A)(B)0(X)C		I	Ø83*14	12V	0.27	P	2800	47.99	2.27	36.00		
						0.27	H	2800	47.99	2.27	36.00		
						0.18	M	2400	42.00	1.86	32.00		
						0.09	L	1800	30.65	1.09	20.00		
	FS1290-(A)(B)1(X)C		II	Ø83*14	12V	0.27	H	2300	40.93	1.69	28.70		
						0.18	M	2000	35.28	1.32	24.90		
						0.09	L	1500	25.79	0.74	20.00		

NB FAN - SPECIFICATIONS													
Model	Fan Number	Picture	Revision	Housing Size (LxWxH)	(A)	Voltage	Current (Amp)		(B)		Air Flow (CFM)	Pressure (mm-H ₂ O)	Noise (dBA)
					System		Rated	Max	Speed				
FW0550 NB(D9)	FN0540-(A)(B)0(X)A		I	64x49x11	S	5V	0.35		M	4500	2.60	7.93	33.60
4006	FN0540-(S)(B)5(X)A		I	41x38x6.1	S	5V	>0.3		H	6500	1.13	5.10	31.50
4509	FN0545-(A)(B)4(X)J		I	45x45x09	A	5V	>0.3		H	6000	6.90	1.93	42.00
3507	FN0535-(A)(B)0(X)I		I	35x37x7	A	5V	>0.3		H	6000	0.94	2.60	30.00
4735	FN0547-(A)(B)(X)I		I	47x35x07	A	5V	0.12		H	6200	1.08	3.08	31.40
4508	FN0545-(S)(B)5(X)A		I	112x61x8	S	5	>0.3		H	6500	1.52	5.10	34.80
4509	FN0540-(A)(B)0(X)A		I	45x45x09	A D	5V	>0.3		H	3500	3.50	10.33	30.00
4909	FN0550-(A)(B)0(X)B		I	49x49x12	A	5V	>0.40		H	3200	2.40	6.00	32.00
6008	FN0560-(S)(B)0(X)L		I	61x53x8	S	5V	>0.40		H	4200	3.50	8.10	32.00
5111	FN0550-(A)(B)2(X)B		I	51x51x11	A	5V	>0.30		H	3500	2.60	8.50	35.50
5009	FN0550-(D)(B)3(X)J		I	49x58x9	D	5V	>0.30		H	4000	1.98	6.00	35.00

NB FAN - SPECIFICATIONS

Model	Fan Number	Picture	Revision	Housing Size (LxWxH)	(A)	Voltage	Current (Amp)		(B)		Air Flow (CFM)	Pressure (mm-H2O)	Noise (dBA)	
					System		Rated	Max	Speed					
4507	FN0545-(A)(B)0(X)I		I	45x45x07	A S	5V	>0.3		H	5500	1.93	8.50	37.00	
4909	FN0540-(A)(B)0(X)A		I	49x49x09	A C	5V	>0.35		H	4500	5.00	6.40	32.00	
4912	FN0550-(A)(B)0(X)B		I	49x49x12	A C	5V	>0.40		H	4000	5.90	9.80	31.40	
5512	FN0550-(A)(B)0(X)B		I	55x55x12	A C	5V	>0.40		H	4000	5.90	9.90	32.00	
8015	FN0560-(A)(B)0(X)C		I	80x60x15	A C	5V	>0.42		0.50	H	4300	7.50	15.00	34.00
							>0.25		0.30	M	3700	6.50	11.10	30.70
							>0.17	0.20	L	2700	4.70	5.90	23.90	
9015	FN0590-(A)(B)0(X)C		I	90x75x15	A C	5V	>0.42	0.50	H	2800	9.30	13.07	32.80	
							>0.32	0.35	M	2500	8.30	10.40	30.30	
							>0.17	0.20	L	2100	7.00	7.35	26.55	
8513	FN0570-(A)(B)0(X)B		I	85x77x13	A C	5V	>0.40		H	3500	9.50	17.00	37.00	
6514	FN0560-(A)(B)0(X)C		I	65x60x14	A C	5V	>0.35		H	4500	7.00	14.00	36.00	
8015	FN0580-(A)(B)0(X)C		I	77x74x20	A C	5V	0.47		H	3200	9.40	14.10	40.00	
8020	FN0580-(A)(B)0(X)D		I	77x73x20	A C	5V	0.48		H	3600	11.20	18.40	46.50	

NB FAN - SPECIFICATIONS

Model	Fan Number	Picture	Revision	Housing Size (LxWxH)	(A)	Voltage	Current (Amp)		(B)		Air Flow (CFM)	Pressure (mm-H2O)	Noise (dBA)
					System		Rated	Max	Speed				
6008	FN0560-(A)(B)0(X)L		I	60x60x08	S	5V	0.35		M	4000	4.11	8.41	30.20
5508	FN0555-(S)(B)5(X)L		I	59x50.9x9	S	5V	>0.3		H	5000	2.58	11.00	31.80



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