Y.S. TECH

YEN SUN TECHNOLOGY CORPORATION

2016-2017 PRODUCTS GUIDE

COOLING FAN ENGINEERING HANDBOOK

YOUR BEST PARTNER FOR THERMAL SOLUTIONS

DC AXIAL FAN / XTREME SERIES / DC BLOWER / AC AXIAL FAN

Y.S. TECH
元山科技工業股份有限公司
YEN SUN TECHNOLOGY CORPORATION

PRODUCTS GUIDE COOLING FAN ENGINEERING HANDBOOK

COMPANY MISSION
Environmental Concern
Customer Satisfaction

PHILOSOPHIES
Innovation Quality Efficiency

Established: 1987
C.E.O.: Mr. C. J. Chen
TS 16949 / ISO 9001 / ISO 14001
OHSAS18001 Certified
Capital: US$10.85 Million
Employees: 1,000
Headquarters Location: Kaohsiung,Taiwan
Business Units:
Electronics Cooling Division
Home Appliance Division

Yen Sun Technology Corporation was established in 1987, conformity with the business philosophies of **INNOVATION, QUALITY** and **EFFICIENCY.**

With over 1000 employees, Yen Sun is a publicly-traded company in Taiwan comprised of two major divisions, including the Electronics Cooling Division and the Home Appliances Division. The manufacturing plants are located in Taiwan and, Dongguan, Shanghai with the worldwide service facilities throughout Asia, America, Australia and the greater part of Europe.

In the past decade, the Electronic Cooling Division has accumulated hundreds of patents all over the world and successfully established a reputation of consistent quality and unique capabilities with its well-known brand name Y.S. TECH.

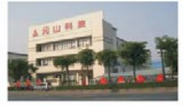
Devoted to innovative technologies and new products, Y.S. TECH continuously improves its R&D and core technologies. The core technologies consist of Advanced Motor Control, Electromechanical simulation, CFD Thermal and Fluid Dynamic Simulation, Psycho-Acoustic Analysis, and Electro-Thermal Analysis. Y.S. TECH has integrated its core technologies to develop a series of DC, AC, EC (AC to DC) cooling fans with RoHS and Reach compliance such as a series of Xtreme high performance fans, along with the *SINTETICO* long life bearing system that has been approved for Telecom and Automotive applications. Furthermore, utilizing F.M.D. Technology Y.S. TECH has developed the world's slimmest fans measuring only 0.4 centimeters in thickness with applications include the next-generation multi-function handheld devices.

CUSTOMER SATISFACTION is based on excellent production capabilities as well as a consistent level of quality. In such a way, Y.S. TECH's advanced automated production lines, along with our precision equipment, provide a high level quality control. Moreover, Yen Sun utilizes XRF to assist its Environmental Materials Management.

This quality system has not only been approved by ISO 14001 and ISO 9001, but has also gained TS 16949 and OHSAS18001 certification, the worldwide automotive and Occupational Health and Safety Advisory Services.

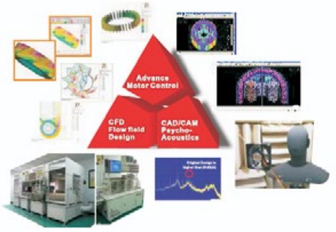
At Y.S. TECH, our long-term vision is to aggressively integrate our business resources, enhance total quality management, innovations, and increase our global logistics capabilities to achieve competitive advantages as a world-class manufacturer to be ***YOUR BEST PARTNER OF THERMAL SOLUTIONS***

Headquarters



Dongguan Factory(DARSON)

Dongguan Factory(Dongkeng)



YW	120	38	012	B	H	–	6	(AXXX)
1	2	3	4	5	6		7	

Explanation

1 Product Series
YW, NYW, HYW: Axial DC Fan
KM: Axial DC Fan
BW: DC Blower

2 Dimension
25: 25mmx25mm **30:** 30mmx30mm
40: 40mmx40mm **45:** 45mmx45mm
50: 50mmx50mm **60:** 60mmx60mm
70: 70mmx70mm **75:** 75mmx75mm
80: 80mmx80mm **92:** 92mmx92mm
97: 97mmx97mm **120:** 120mmx120mm
17: 172mmx150mm

3 Thickness
10: 10mm **15:** 15mm
20: 20mm **25:** 25mm
28: 28mm **30:** 30mm
32: 32mm **33:** 33mm
38: 38mm **51:** 51mm

4 Voltage Type
05: 5V **12:** 12V
24: 24V **48:** 48V

5 Bearing Type (1 code)
B: Ball Bearing **S:** Sleeve Bearing
L: Sintetico Bearing

6 Speed (1 code)
L: Low Speed **M:** Medium Speed
H: High Speed **S:** Extra High Speed
U: Ultra Speed **SS:** Super Speed

(Suffix): Custom Mods
Function:
0: Transistor (2 wires)
1: Transistor With FG Signal (3 wires)
2: Alarm high-low IC (3wires)
3: Alarm Low IC (3 wires)
4: Alarm High IC (3 wires)
5: Tachometer IC (3 wires)
6: Auto Restart IC (3 wires)
7: Thermistor IC (2 wires)
8: Thermistor (T) + Tachometer (F) IC
10: Alarm High (R) + Tachometer (F) IC
11: Alarm Low (Q) + Tachometer (F) IC
12: Pulse Width Modulation (PWM) IC
13: Thermistor (T)+Alarm High(R) IC
13: Thermistor IC(T)+VR+Tachometer(F) IC
14: Pulse Width Modulation(PWM) IC, Without FG Signal
15: Alarm High (R) + PWM (B) IC
16: Thermistor IC(T)+VR
18: Thermistor (T) +Alarm High-Low (S) IC
19: PWM(W)+Thermistor IC(T)
20: Vcc With PWM Control, Without FC Signal
21: Vcc With PWM Control, With FG Signal

AC Fan Model Numbering System

KT	120	38	115	B	H	(Suffix)
1	2	3	4	5	6	

1 Product Type
KT/KW: AC Fan

2 Dimension
080: 80mmx80mm **092:** 92mmx92mm **120:** 120mmx120mm **172:** 172mmx150mm
180: 180mmx180mm **254:** 254mm **280:** 280mmx280mm

3 Thickness
25: 25mm **38:** 38mm **51:** 51mm **65:** 65mm **89:** 89mm

4 Voltage Type
A1: 110/115VAC **A2:** 220/230VAC

5 Bearing Type (1 code)
B: Ball Bearing **S:** Sleeve Bearing

6 Speed (1 code)
L: Low Speed **M:** Medium Speed **H:** High Speed **E:** Extreme Speed

Telecommunication Applications

Y.S. TECH has applied our expertise in fan design to produce a line of high output fans well suited for Telecom applications(System Chassis, Fast Ethernet Switch, Service Gateway, VoIP Product, Network Storage System(NAS) and Server system). Serving the Telecom markets of Asia, Europe, and North America we a broad understanding of the needs of our global market. Y.S. TECH's Xtreme Series is a line of fans that have been designed with a unique flow pattern that has overcomes the low pressure boundaries that traditional axial fans have. The stationary and dual rotor products made by Y.S. TECH have high torque motors, more robust bearing systems and internal motor structure that will provide the high end performance and reliability for applications with high impedance. Sound quality is always a concern too and we can offer many options to better manage and achieve those goals

Rack-Mount Fan Tray

Reverse-Blade Design utilize different blade direction to exhaust air out for more reliability and safety when fan mounted on the top of chassis.

System Chassis Solutions

Advantages

- High operating voltage:
  - Max. operating voltage 75VDC for 48VDC rated.
  - Max. operating voltage 40VDC for 24VDC rated.
- High Vcc input for control signal design by open collector circuit.
- Multi-Function motor control
  - Thermostat control(NTC)
  - PWM with NTC hybrid control
  - Pulse Width Modulation control(PWM)
  - Customized design by program
- Reversed Blade design for more reliable(To ensure fan running on a right direction and improve life, especially for chassis cooling application.)
- Water/Dust Proof
- Customized Fan-Tray design and CFD analysis service(To reduce consonance, vibration, and reversed electromotive force.)
- High quality and reliability
  - Surge voltage & overload current protection
  - Soft Start up & Hot Swappable support
  - Redundancy protection design
  - Sustained rotating system and mechanical design
- Customized design service for total thermal solutions and analysis

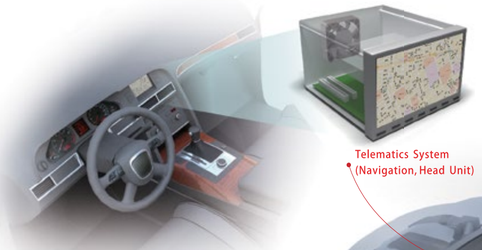
Fast Ethernet Switch

Rack-Mount Ups Systems

1U~13U Network Storage and Server Systems

Automotive Applications

Y.S. TECH has many years of experience working in both the North American and European Automotive Markets. Utilizing our core technologies of CFD simulations, Psyco-Acoustic Analysis, Multi-function controal system, mechanical expertise, and overall system integration we are able to develop optimal cooling solutions for customers in one of many different applications. Telematics Systems(Navigation, Audio Amplifiers, DVD and Head units), Seat heating and cooling, Hybrid Driving System (Fuel Cell-Gasoline), LED lighting and more are just a few of the applications Y.S. TECH can help solve thermal management problems. Our goal is to provide a cooling system that is unsurpassed in reliability, quality and performance giving the driver & passengers the most comfortable driving experience.

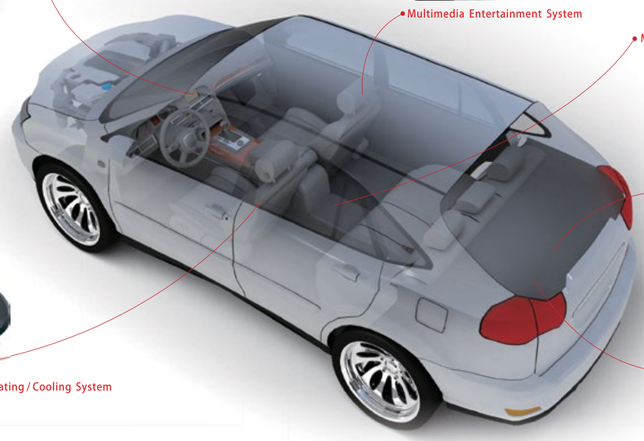


Telematics System
(Navigation, Head Unit)

Multimedia Entertainment System

Mobile Refrigeration With Bottle Cooler

Car Seat Heating / Cooling System



Audio Amplifier and DC/AC Inverter

Car Computer System

Advantages

- TS16949 CERTIFICATED
- Wide range operating voltage：4～16VDC at 12V Rated
- Wide range operating temperature：-40～90℃
- Multi-Function motor control
  - Thermostat control(NTC)
  - Redundancy protection design
  - Pulse Width Modulation control(PWM)
  - Customized design by program
  - PWM with NTC hybrid control
- High Reliability
  - Over-Voltage Resistance during long term operation：DC 27V / 1 min
  - Thermal Shock：-40～90℃, 1hr per Temp., Temp. Change in 30 sec.
  - Mechanical Shock：Semi-wave, a＝500m/s2, 6ms, 10 times per direction
  - Vibration Test：5Hz/0.00919 G2/Hz~ 2000Hz/0.00146 G2/Hz, 25℃/12hrs
- Customized design service for total thermal solutions and analysis

Normally, most users are used to select cooling fan or blower by referring maximum flow rate, maximum static pressure and rotational speed data in product specification. It's not a complete thinking, because the fan is always working inside the system. Y.S. TECH has to highly recommend you to focus on demanded operating point works in fan performance curve profile, do not only refer the maximum point or rotational speed. Meanwhile, a cooling requirement should not only regard flow rate or static pressure, but two key factors of power consumption and acoustic noise. However, these critical factors are trade-off, so how do we select a right fan to meet with thermal solution. We are going to illustrate you some methods how to select a right fan in the following content. And then we will discuss other important technical topics including Life (L10), RoHS and Application Note.

STEP 1:
Ask five questions before choosing a fan
Here are five questions of thermal inquiry we need to verify at first. That include:
1.Watt:
How many watts would you need to dissipate?
2.Air Impedance:
What is your system air-impedance?
3.Noise:
What is acoustic noise specification you need?
4.Temperature Gradient:
What is your design of ΔT?
5.Dimension:
What is fan dimension you need?

STEP 2:
Choose a right fan & blower to meet your thermal inquiry
The effects of heat transfer include Conduction, Convection and Radiation. Most heat transfer by conduction and radiation effects that concern about system mechanism. For example, a good chassis or heatsink design is more helpful for thermal solutions. Convection effects contain free convection and forced convection. Cooling fan and blower are the major effect for force convection and always increase entire thermal solutions more efficient. Illustration 1 shows you a normal system of heat dissipation status. $P_{con\&rad}$ presents heat dissipation on free convection and Radiation transfer. P_{sys} presents total power consumption of system. P_{fan} presents forced convection that need cooling fan or blower to dissipate. ΔT presents Temperature Gradient $\Delta T = T_2 - T_1$, T_2 is the thermal spec of critical parts with margin tolerance. T_1 presents Ambient Temperature.

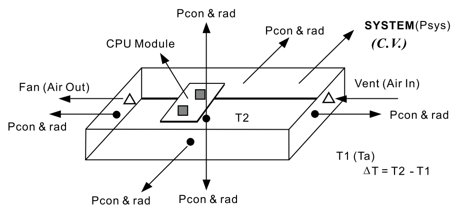


Illustration 1: System Heat transferred

Then we can estimate Flow Rate inquiry by followed equations

$$P_{fan}=P_{sys}-P_{com\&rad}$$
$$P_{fan}=C_p \times Q \times \rho \times \Delta T$$
$$Q_{eff}(CFM)=\frac{P_{fan}}{C_p \times \rho \times \Delta T}=\frac{1.76 \times P_{fan}}{\Delta T_c}=\frac{3.16 \times P_{fan}}{\Delta T_f}$$

Q_{eff} : Efficiency Flow Rate
ρ : Gas Density
C_p : Specific Heat of Gas
$Q_{eff} = 3160 \times KW / \triangle T_f$
$\triangle T_f$: Allowable temperature rise in degree Fahrenheit
$\triangle T_c$: Allowable temperature rise in degree Celsius

By incorporating conversion factors, specific heat and density of sea level air we can summarize above equations as Q_{eff} that called effective flow rate. Q_{eff} ask fan's operating point need to be met. In another words, Fan Operating Point should over or equal to Q_{eff}.
Fan Operating Point is an intersection point by fan performance curve (flow rate/ static pressure) and system air impedance curve. It's caused by different system or components placement and form factors.
Normally, It is measured by static pressure, ΔPi .
Its formula may show as below:

$\triangle Pi = kQ^n$
k : System form factor constant value.
Q : Flow rate by different impedance
n : Coefficient of turbulence
$1 < n < 2$. Laminar Flow, $n = 1$; Turbulence Flow, $n = 2$

Illustration 2 shows two fans performance curve and system air impedance curve.

Even B's maximum flow rate is higher than A's but the Q_{op_A} better than Q_{op_B}.
Both Q_{op_A} and Q_{op_B} are Operating Points.

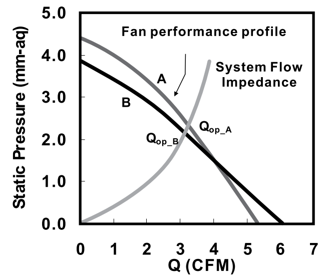


Illustration 2: Fan Performance Comparison

If $Q_{op\_B} < Q_{eff} < Q_{op\_A}$,
Then we can say Fan A is a proper choice for this thermal solution. So that why we emphasize that focus on fan performance profile rather than on maximum flow rate or static pressure or rotational speed.

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STEP 3: ***Choose a solution with Low Noise***
As aforementioned, the flow rate, static pressure and acoustic noise are always trade-off. It is very difficult to think over these factors at the same time. Meanwhile, a lot of troubles are caused by improper applications too. For example, fan mounted to chassis improperly may cause vibration and flow disturbance, and then got higher acoustic noise. Here are some key points regarding to low noise design for your reference:

1.A proper system air impedance design
Higher system air impedance needs a higher static pressure fan, but It accompanies with higher noise. Give an enough space to your critical parts and place them at flow path as possible. But it is a tough work to get space for thermal solutions in a slim and light. However, we recommend you to measure you system air impedance and collect enough parameters to know your ΔPi. Normally, most specialized fan manufactures will support you to measure it by Air Chamber.

2.Choose a proper fan that base on Q_{eff}
We have illustrated you a method to figure out a right fan for Q_{eff}, and then you should consider about power consumption and acoustic noise. Which one is the first priority? To evaluate these two parameters under the same Q_{eff} base is Y.S. TECH's recommendations.

3.Review a fit mechanism design between fan and application system
Vibration and Flow Disturbance always cause resonance and get higher acoustic noise. A proper fan mounting and flow field design may decrease acoustic noise. For example, mounting with a rubber cap on high-speed fan model will decrease vibration resonance. Review your design to make sure there is enough margin space (over 1.5mm) at flow inlet/outlet side and no any stuff to disturb flow filed.

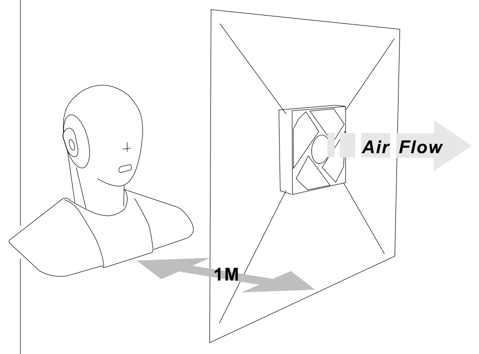
4.Advance fan speed control by your thermal profile
Thermal profile is similar to fan performance profile. Normally, different function will need to dissipate different power consumption. Then we can modulate fan rpm and ask fan working on a proper rpm by different system function. The most popular advanced fan speed controls are PWM control (Pulse Width Modulation), Thermostat control (NTC, thermistor) and both of them.

5.Sound Quality analysis
In cooling fan industry, we are always focused on Sound Pressure only in the past but there is no longer sufficient to us because even though legal regulations have lead to a reduction of noise limits, the tendency of people to feel disturbed by noise is increasing. A sole reduction of noise levels is thus not sufficient to reduce the annoyance due to noise to a degree noticeable by human beings. This is due to the fact that the subjective human aural perception is often disregarded. However, the judgment of a sound event involves a wide range of different parameters forming into the total hearing impression. So we are not only concern about sound pressure but also 「Sound Quality」.

The examination methods are based on the idea of correct recording and describing the noise exposure from the acoustic environment in a way that reflects what humans subjectively perceive. In order to record this entire perception, physical aspects as well as psychoacoustic characteristics of hearing and cognitive aspects must be considered. The main focus of psychoacoustics is the subjective aural perception by human beings. The goal is objectively describing this subjective perception. Psychoacoustic measuring methods account for the actual hearing impression, as opposed to conventional measuring methods that only record the sound level in the form of the equivalent continuous sound level.
Y.S. TECH introduced the「Sound Quality Analysis System」of HEAD ACOUSTIC in German.
Those include an Artificial Head and analysis tool and also the most popular measuring and analysis system in automotive industry. Its parameters are include 「SPL, sound pressure level」、「Tonality」、「Sone」and「Modulation」.

The measuring method and standards are as below:

1.ANECHOIC Room Noise Measurement System.
2.Digital Head Measurement System, 16-bits version.
3.SQlab III, Mobile Multi-channel Analysis System.
4.Specifications:ISO 3744, ISO 3745, ISO 7779, CNS 6753, JIS 8346
5.Background Noise: < 17dB(A)



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Cooling Fan Life Expectancy:L10 and MTTF
Fan reliability can be evaluated in several ways. The data for a life test can be plotted as a cumulative distribution that shows the total fraction of fans failing up to any operating time. Fig. 1 is a sample of cumulative distribution, which was stopped at 8,400 hours after 18 out of 48 fans had failed.

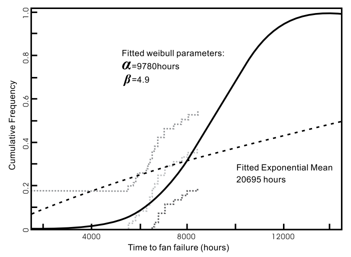

Figure 1 : Sample cumulative distribution function, Weibull vs. Empirical with 95% confidence bands
(Reference : IBM Corp. , May 1996, Vol.2, No.2, Electronics Cooling)

Some vendors provide life expectancy data to customers based on the exponential assumption. However, life test data does not support the use of the exponential distribution. Nevertheless the past experimentation fitting has shown that the Weibull distribution provides a good fit to real fan life data. The ***Cumulative Distribution Function ,F(t)*** of Weibull distribution is a below:

$$F(t)=1-e^{-(t/\alpha)\beta}$$
Where t : *age*
α: *characteristic life (Scale Parameter)*
β: *shape parameter*

Then Reliability Function is $R(t)=e^{-(t/\alpha)\beta}$

$$MTTF=\int_0^{\infty} R(t)\,dt=\alpha\Gamma(1+1/\beta) \quad \Gamma : \text{Gamma Function}$$

Normally, L_{10} was introduced a life expectancy parameters by fan vendors. That means the tenth percentiles under an assumed life distribution such as the Weibull. Sometimes vendors will also quote the Mean Time To Failure (***MTTF***) then we need to figure out the correlation between L_{10} and ***MTTF*** by following equations:

$\because L_{10}$ Means age t when $F(t)=0.1$
$\therefore\ 0.1=1-e^{-(L10/\alpha)\beta}$
$L_{10}=\alpha(0.10536)^{1/\beta}$
$MTTF=7.46 \times L_{10} \fallingdotseq 7 \times L_{10}$ *(90% Confidence Level)*

After we have verified the correlation between L_{10} and ***MTTF***, we also need to know how long should a sample size be tested to determine with 90% confidence level that L_{10} greater than or equal to expectancy value at a test temperature without failure ($x=0$). Here we introduce the Poisson Distribution to estimate.

$$P(x,t)=\{(\lambda t)^x e^{-\lambda t}\}/x!$$
$$P(0,t)=\{(\lambda t)^0 e^{-\lambda t}\}/0!=e^{-\lambda t}$$
$$\because R(t)=e^{-(t/\alpha)\beta}$$
$$MTTF=\alpha\Gamma(1+1/\beta)$$
$$\therefore t=\alpha[(Br;c)/n]^{1/\beta}$$
$$t=[MTTF/\Gamma(1+1/\beta)] \times [(B_{r;c})/n]^{1/\beta}$$
where $B_{r;c}$ *is Poisson Distribution Factor*

Normally on the condition of 90% confidence level and 0 failure then $B_{r;c}=2.303$.
Then we introduce ***Takes Martin Marietta Model*** to estimate Life at different environment stress.

$$AF=[Va/Vu] \times 2^{(Ta-Tu)/10}$$
where
AF : Acceleration Factor
Va : Actual Testing Voltage
Vu : Rating Voltage
Ta : Actual Testing Temperature
Tu : Rating Temperature
if $Va=Vu$
then $AF(t)=2^{(Ta-Tu)/10}$

Then we can define the ***Required Test Time (t)*** with zero failure is as below:

$$t=[MTTF/\Gamma(1+1/\beta)] \times [(B_{r;c})/n]^{1/\beta}/2^{(Ta-Tu)/10}$$
where MTTF is an expectancy value

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Management Regulations for the Environment-Related Substances
Management Standards

SUBSTANCES	Allowable Content (ppm)	
	RoHS	SONY SS259
Cadmium and Cadmium compounds	<100	0
Lead and Lead compounds	<1000	<100
Total concentration of four heavy metals for product package (Concentration of Cadmium for Plastics (including Rubber) has to less than 5 ppm.)	<1000	<100
Concentration of lead for PVC cable、connecters、paints、inks、resins	<1000	<100
Concentration of lead for solder	<1000	<1000
Concentration of lead for Steel Alloys	<3500	<3500
Concentration of lead for Aluminum Alloys	<4000	<4000
Concentration of lead for Copper Alloys	<4%	<4%
Concentration of lead for electrical components with ceramic base (ex: resister、capacitor..)	<100	<100
Mercury and Mercury compounds	<1000	<100
Hexavalent Chromium compounds	<1000	0
PBB、PBDE Note 2	<1000	0

Note:
1.For RoHS, Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct. 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
2.PBBEs=PBDEs=Polybrominated Diphenyl Ethers= PBDOs=PBBOs.

Standards for Preconditioning and Measurement
I. Pre-conditioning
Typical pre-conditioning methods are as follows:
1.Incineration under the existence of sulfuric acid.
2.A pressurized acid decomposition method done in a sealed container. (A microwave decomposition method such as EN 13346:2000 and EPA 3052:1996)
3.An acid decomposition method under the existence of sulfuric acid or hydrogen-peroxide water. (e.g. EPA3050B Rev.2: 1996).
4.A wet decomposition method under the existence of sulfuric acid, nitric acid, or hydrogen-peroxide water.(e.g. BS EN 1122:2001)
5.If precipitates (insoluble matter) are produced, dissolve them totally by taking some means. (e.g. alkali dissolution)
6. US EPA 3540C or 3550 for organic or organic compounds substances.

II. Measurement methods
Typical measurement methods are as follows,
1.Inductively Coupled-Plasma-Atomic (Optical) Emission Spectroscopy (ICP-AES, ICP-OES)(e.g. EN ISO 11885:1998)
2.Atomic Absorption Spectroscopy (AAS) (e.g. EN ISO5961: 1995).
3.Inductively Coupled-Plasma Mass Spectroscopy (ICP-MS)
4.Gas Chromatography Mass Spectroscopy (GC-MS) for organic or organic compounds substances.
5.If a combination of a pre-conditioning method and a measurement method can guarantee that the lower determination limit of cadmium is less than 5 ppm, the combination is also applicable.
6.Any one of the measurement methods above (except AAS) enables you to analyze cadmium and lead simultaneously.

III. Environmental Logo

RoHS Compliance

Environmental Concern & Keep Improving

Cooling Fan and Blower Application Notices
Test Conditions and definitions
Most specifications of cooling fan are measured after 5 minutes rotating in an ambient of 25℃/ 65% RH The operating voltage and temperature were defined after fan rotating continually at rated voltage. Starting Voltage was defined on power on/off condition and Rotational Speed was defined on full speed by its rated value. Except for the feature of the Lock Rotor Protection specifically stated, Y.S. Tech highly suggests not to stop the impellers of the working fans such interruption will cause adverse effect. Noise Level is different from abnormal noise. We estimate noise level by equation when noise level is lower than background noise (17dB). L10 of Life test is a deductive value under statistical method and it is different from product warranty.

Handling
Please be cautious when fan is being exercised or handled. Applying pressure to the impeller, handling the fan by lead wire, or dropping the fans to the production platform is resulting in damage.
Fan is to be stored in a dry/cool place. High levels of humidity are harmful to products. If fan was stocked at an ambient temperature under 5℃ and over 24 hrs. Please stock fans to an ambient temperature over 20℃ and remained over 24 hrs before using. All specifications include abnormal noise have to be measured after 30 minute running.
The correct polarity, Positive (+) and Negative (-), has to be clearly identified before connecting the fan to the power. Be aware of the connection with reverse polarity may lead to damage since no effective protection can be introduced against such errors.
With exception of suitability of some particular designs, any failure and problems regarding safety of the product caused by the introduction of powder, droplets of water or encroachment of insert in the hub are not guaranteed. It is also not well suited for corrosive environments that include liquids, gases, or matters.

After Service
A written request should be submitted to Y.S. Tech prior to approval if abnormality and deviation from specification is required. Meanwhile, send abnormal samples to Y.S. TECH for more detail analysis is necessary.

Other Reminding
Please be cautious. Y.S. Tech is not responsible for any excess resonance, vibration and subsequent noise caused by incorrect mounting of fans. Take necessary precaution handling fans when in operation.
Finger guards are recommended to prevent personal injury. To avoid any unstable power, an "over 4.7 μF" capacitor has definitely be connected to fan externally whatever multiple fans are applied in parallel.

Engineering information

ENGINEERING INFORMATION

Conversion Tables and Equations

I . Air Flow Rate

m^3/s	m^3/min	l/s	l/min	m^3/h	ft^3/s	CFM
1	6 x 10	1 x 103	6 x 10^3	3.6 x 10^3	3.531 x 10	2.118 x 10^3
1.667 x 10^{-2}	1	1.667 x 10	1 x 10^3	6 x 10	5.885 x 10^{-1}	3.531 x 10
1 x 10	6 x 10^{-2}	1	6 x 10	3.6	3.531 x 10^{-2}	2.118
1.667 x 10^{-3}	1 x 10^{-1}	1.667 x 10^{-1}	1	6 x 10^{-2}	5.9 x 10^{-4}	3.54 x 10^{-3}
2.778 x 10^{-4}	1.667 x 10^{-2}	2.778 x 10^{-2}	1.667 x 10	1	9.81 x 10^{-3}	5.886 x 10^{-1}
2.832 x 10^{-4}	1.69833	2.832 x 10	1.6983 x 10^3	1.019 x 10^{-1}	1	6 x 10
4.72 x 10^{-4}	2.831 x 10^{-2}	0.472	2.831 x 10^2	1.6983	1.667 x 10^{-2}	1

II . Static Pressure

P_a = N/m^2	mm-H_2O	inch-H_2O	Kgf/cm^2	atm	bar	lbf/in^2
1	1.019 x 10^{-1}	4.017 x 10^{-3}	1.019 x 10^{-5}	9.869 x 10^{-6}	1 x 10^{-5}	1.450 x 10^{-4}
9.80665	1	3.939 x 10^{-2}	1 x 10^{-4}	9.678 x 10^{-5}	9.806 x 10^{-4}	1.442 x 10^{-3}
2.49 x 10^2	25.4	1	2.54 x 10^{-3}	2.46 x 10^{-3}	2.49 x 10^{-3}	3.61 x 10^{-2}
9.807 x 10^4	10^4	3.937 x 10^2	1	0.9678	0.980665	14.22334
1.0133 x 10^5	1.0332 x 10^4	4.071 x 10^2	1.033323	1	1.01325	14.696
1 x 10^5	1.0197 x 10^4	4.018 x 10^2	1.101972	0.986923	1	14.5038
6.895 x 10^3	7.031 x 10^2	27.686	7.031 x 10^{-2}	6.805 x 10^{-2}	6.895 x 10^{-2}	1

III. System Allowable Temperature Rise

(ΔT) at P_{inc} v.s. Q_{all}

Temperature Rise		P_{inc}, (Kwh)									
ΔT_c	ΔT_a	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
50	90	18	35	53	70	88	105	123	141	158	176
45	81	20	39	59	78	98	117	137	156	176	195
40	72	22	44	66	88	110	132	154	176	195	220
35	63	25	50	75	100	125	151	176	201	226	251
30	54	29	59	88	117	146	176	205	234	264	293
25	45	35	75	105	141	176	211	246	281	316	351
20	36	44	88	132	176	220	264	308	351	396	439
15	27	59	117	176	234	293	351	410	469	527	586
10	18	88	176	264	351	439	527	615	704	791	879
5	9	176	351	527	704	879	1055	1230	1406	1582	1758

IV. Acoustic Noise

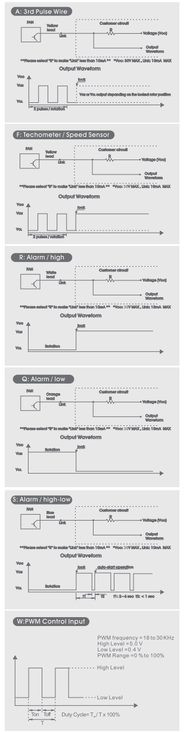
Sound Pressure Level (SPL, dB) = 20 log (P/ P_o)
where P_o = 20 μ P_a
P_o : the reference sound pressure of human hearing system

Similarity Algorithm of Acoustic Noise
ii) By Rotational Speed (rpm)
$N_2 = N_1 + 50 \log (rpm_2 / rpm_1)$
where
N_1 = Noise level measured at rpm_1
N_2 = Noise level calculated at rpm_2

i) By Measuring Distance
$N_2 = N_1 + 20 \log (Distance_1 / Distance_2)$
where
N_1 = Noise level measured at $Distance_1$
N_2 = Noise level calculated at $Distance_2$

According to above equations, it is very clear the acoustic noise level will reduce 6 dB when the distance doubled. Comparatively, the noise level will also increase 6 dB when distance shorten by half.

Wave form of ic function



THERMAL MODULE DIVISION

Y.S.TECH

Our MISSION:
Provide the best thermal solutions & services to meet all the requirements of our valued customers. Be a best total solution provider.

Our STRENGTHS:
Total Solutions Provider.
Innovation R&D & design capabilities.
Efficient production & competitive prices.

Thermal Design Capability

Product Application

NYW02510 SERIES

Y.S.TECH

25x25x10mm

- **Airflow: 2.0~3.3 CFM**
- **Static Pressure: 3.7~6.3 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1571 #28 AWG**
- **Weight: 7.5 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H_2O	mA	W	Hour		dB(A)
NYW02510005BL	2B	05	4~5.5	7000	2.0	3.7	75	0.38	80000	4	18.0
NYW02510005BM	2B		4~5.5	8500	2.4	4.5	110	0.55	80000	3	22.5
NYW02510005BH	2B		4~5.5	10000	2.8	5.3	140	0.70	75000	2	26.0
NYW02510005BS	2B		4~5.5	12000	3.3	6.3	180	0.90	65000	1	30.0
NYW02510005LL	L		4~5.5	7000	2.0	3.7	80	0.40	50000	4	<17.0
NYW02510005LM	L		4~5.5	8500	2.4	4.5	80	0.40	50000	3	19.2
NYW025100012BL	2B	12	9~13.2	7000	2.0	3.7	40	0.48	80000	4	18.0
NYW025100012BM	2B		7~13.2	8500	2.4	4.5	50	0.60	80000	3	22.5
NYW025100012BH	2B		7~13.2	10000	2.8	5.3	65	0.78	75000	2	26.0
NYW025100012BS	2B		7~13.2	12000	3.3	6.3	70	0.84	65000	1	30.0
NYW025100012LL	L		9~13.2	7000	2.0	3.7	40	0.48	50000	4	<17.0
NYW025100012LM	L		7~13.2	8500	2.4	4.5	50	0.60	50000	3	19.2

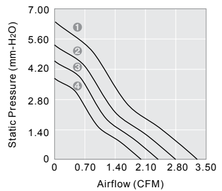
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

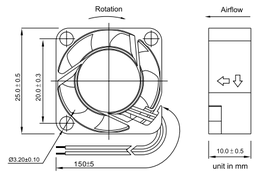
Bearing System Available
2B L S

Function Available
1 6 5 4 3 2 7 8 9 10 11 14 12

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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NYW03010 SERIES

Y.S.TECH

30x30x10mm

- **Airflow: 2.5~4.0 CFM**
- **Static Pressure: 2.0~5.2 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1571 #28 AWG**
- **Weight: 9 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H_2O	mA	W	Hour		dB(A)
NYW03010005BL	2B	05	4~5.5	5800	2.5	2.0	50	0.25	80000	4	<17.0
NYW03010005BM	2B		4~5.5	6800	3.0	2.7	80	0.40	80000	3	18.0
NYW03010005BH	2B		4~5.5	7800	3.4	3.3	90	0.45	75000	2	21.5
NYW03010005BS	2B		4~5.5	10000	4.0	5.2	120	0.60	65000	1	28.0
NYW03010005LL	L		4~5.5	6000	2.6	2.0	80	0.40	50000	4	<17.0
NYW03010005LM	L		4~5.5	7000	2.9	2.8	105	0.53	50000	3	20.5
NYW03010005LH	L		4~5.5	8000	3.3	3.6	130	0.65	50000	2	23.2
NYW03010005LS	L		4~5.5	10000	4.0	5.2	190	0.95	50000	1	28.0
NYW03010012BL	2B	12	9~13.2	5800	2.5	2.0	35	0.42	80000	4	<17.0
NYW03010012BM	2B		7~13.2	6800	3.0	2.7	40	0.48	80000	3	18.0
NYW03010012BH	2B		7~13.2	7800	3.4	3.3	40	0.48	75000	2	21.5
NYW03010012BS	2B		7~13.2	10000	4.0	5.2	60	0.72	65000	1	28.0
NYW03010012LL	L		9~13.2	6000	2.5	2.0	35	0.42	50000	4	<17.0
NYW03010012LM	L		7~13.2	7000	2.9	2.8	50	0.60	50000	3	20.5
NYW03010012LH	L		7~13.2	8000	3.3	3.6	60	0.72	50000	2	23.2
NYW03010012LS	L		7~13.2	10000	4.0	5.2	80	0.96	50000	1	28.0

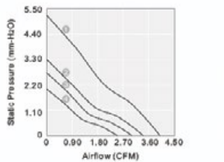
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

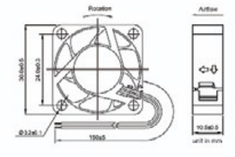
Bearing System Available
2B L S

Function Available
1 6 5 4 3 2 7 8 9 10 11 14 12

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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NYW3015 SERIES

Y.S.TECH

30x30x15mm

- **Airflow: 3.8~6.1 CFM**
- **Static Pressure: 2.8~7.1 mm-H2O**
- **Blade / Housing: Plastic Material UL 94V-0 P.B.T.**
- **Lead Wire: UL1571 #28 AWG**
- **Weight: 13 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW03015005BL	2B	05	4~5.5	7000	3.8	2.8	60	0.30	80000	4	<17.0
NYW03015005BM	2B		4~5.5	8000	4.4	3.7	85	0.42	80000	3	20.5
NYW03015005BH	2B		4~5.5	9000	4.9	4.4	110	0.55	75000	2	25.0
NYW03015005BS	2B		4~5.5	11000	5.7	6.3	200	1.00	65000	1	30.0
NYW03015012BL	2B	12	7~13.2	7000	3.8	2.8	30	0.36	80000	4	<17.0
NYW03015012BM	2B		7~13.2	8000	4.4	3.7	40	0.48	80000	3	20.5
NYW03015012BH	2B		7~13.2	9000	4.9	4.4	45	0.54	75000	2	25.0
NYW03015012BS	2B		7~13.2	11500	6.1	7.1	90	1.08	65000	1	30.0

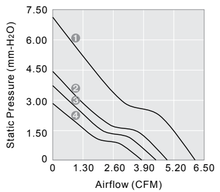
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

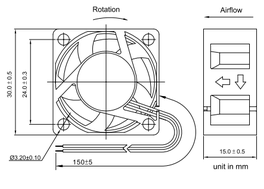
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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XYW03628 SERIES

Y.S.TECH

36x36x28mm

- **Airflow: 18.74~24.99 CFM**
- **Static Pressure: 36.63~65.09 mm-H2O**
- **Blade / Housing: Plastic Material UL 94V-0 P.B.T.**
- **Lead Wire: UL1061 #28 AWG**
- **Weight: 46.5g**

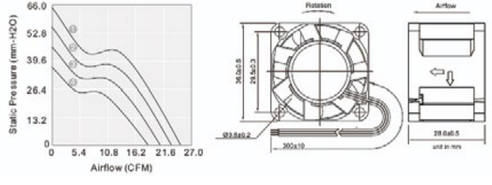
Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW03628012BM	2B	12	7~13.2	17000	18.74	36.63	500	6.00	80000	4	56.0
XYW03628012BH	2B		7~13.2	19000	21.05	46.40	650	7.80	75000	3	59.5
XYW03628012BS	2B		7~13.2	21000	23.22	55.71	850	10.20	65000	2	61.0
XYW03628012BSS	2B		7~13.2	23000	24.99	65.09	1000	12.00	65000	1	63.0

2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 12 13 14



Please refer to *Model Numbering System* for bearing, function and speed level indication.

XYW03828 SERIES

Y.S.TECH

38x38x28mm

- **Airflow: 13.73~20.86 CFM**
- **Static Pressure: 37.13~77.26 mm-H2O**
- **Blade / Housing: Plastic Material UL 94V-0 P.B.T.**
- **Lead Wire: UL1061 #28 AWG**
- **Weight: 47.0g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW03828012BM	2B	12	7~13.2	17000	13.73	37.13	300	3.60	80000	5	46.5
XYW03828012BH	2B		7~13.2	19000	15.77	46.27	400	4.80	75000	4	48.0
XYW03828012BS	2B		7~13.2	21000	17.53	59.41	500	6.00	65000	3	53.0
XYW03828012BSS	2B		7~13.2	23500	19.49	65.37	700	8.40	65000	2	56.0
XYW03828012BU	2B		7~13.2	25000	20.86	77.26	850	10.20	65000	1	57.5

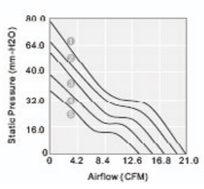
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

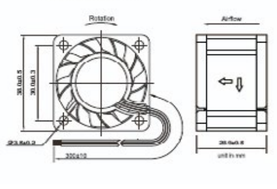
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 12 13 14

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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XYW03848 SERIES

Y.S.TECH

38x38x48mm

- **Airflow: 23.48~29.28 CFM**
- **Static Pressure: 53.9~79.1 mm-H2O**
- **Blade / Housing: Plastic Material UL 94V-0 P.B.T.**
- **Lead Wire: UL1061 #28 AWG**
- **Weight: 72.4g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW03848012BSS	2B	12	7~13.2	25000 15000	29.28	79.10	830	9.96	60000	1	64.0
XYW03848012BS	2B		7~13.2	23500 14500	27.62	74.6	700	8.40	65000	2	62.5
XYW03848012BH	2B		7~13.2	20000 12500	23.48	53.9	450	5.40	65000	3	59.0

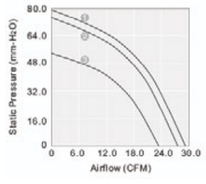
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

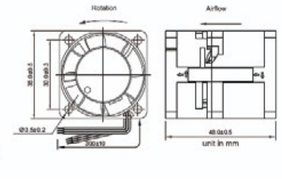
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 12 13 14

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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YW04010 SERIES

Y.S.TECH

40x40x10mm

- **Airflow: 4.5~9.2 CFM**
- **Static Pressure: 2.0~6.4 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 15 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW04010005BL	2B		4~5.5	4500	4.5	2.0	90	0.45	80000	5	21.5
YW04010005BM	2B		4~5.5	5500	5.6	2.9	130	0.65	80000	4	26.5
YW04010005BH	2B	05	4~5.5	6500	6.6	4.1	170	0.85	75000	3	29.0
YW04010005BS	2B		4~5.5	7500	8.1	5.4	250	1.25	65000	2	34.5
YW04010005BSS	2B		4~5.5	8000	8.5	6.1	300	1.50	65000	0	36.5
YW04010012BL	2B		7~13.2	4500	4.5	2.0	45	0.54	80000	5	21.5
YW04010012BM	2B		7~13.2	5500	5.3	2.9	65	0.78	80000	4	25.0
YW04010012BH	2B	12	7~13.2	6500	6.6	4.1	75	0.90	75000	3	29.0
YW04010012BS	2B		7~13.2	7500	8.1	5.4	100	1.20	65000	2	34.5
YW04010012BSS	2B		7~13.2	8500	9.2	6.4	120	1.44	65000	1	37.0
YW04010024BL	2B		12~26.4	4500	4.5	2.0	50	1.20	80000	5	21.5
YW04010024BM	2B	24	12~26.4	5500	5.3	2.9	60	1.44	80000	4	25.0
YW04010024BH	2B		12~26.4	6500	6.6	4.1	70	1.68	75000	3	29.0

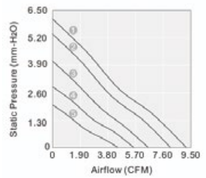
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

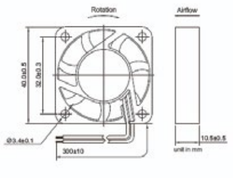
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 1 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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NYW04010 SERIES

Y.S.TECH

40x40x10mm

- **Airflow: 5.08~8.71CFM**
- **Static Pressure: 1.69~5.08 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 13.6 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW04010005LL	L		4~5.5	5000	5.08	1.69	70	0.35	50000	4	17.5
NYW04010005LM	L		4~5.5	6000	6.09	2.64	120	0.60	50000	3	21.5
NYW04010005LH	L	05	4~5.5	7500	7.69	3.64	180	0.90	55000	2	25.0
NYW04010012BL	2B		8~13.2	5000	5.08	1.69	25	0.30	80000	4	17.5
NYW04010012BM	2B		8~13.2	6000	6.09	2.64	40	0.48	80000	3	21.5
NYW04010012BH	2B	12	7~13.2	7500	7.69	3.64	60	0.72	75000	2	25.0
NYW04010012BS	2B		7~13.2	8500	8.71	5.09	80	0.96	65000	1	28.0
NYW04010012LL	L		7~13.2	5000	5.08	1.69	30	0.42	50000	4	17.5
NYW04010012LM	L		7~13.2	6000	6.09	2.64	50	0.60	50000	3	21.5
NYW04010012LH	L		7~13.2	7500	7.69	3.64	75	0.90	50000	2	25.0

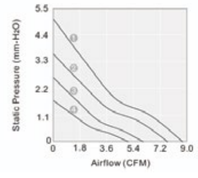
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

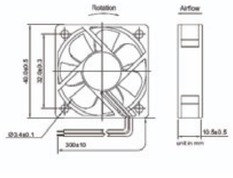
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 1 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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YW04015 SERIES

Y.S.TECH

40x40x15mm

- **Airflow: 6.1~9.5 CFM**
- **Static Pressure: 4.6~8.7 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 26 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW04015005BL	2B	05	4~5.5	6000	6.1	4.6	200	1.00	80000	3	28.0
YW04015005BM	2B		4~5.5	7300	7.5	6.8	280	1.40	80000	2	32.0
YW04015012BL	2B		7~13.2	6000	6.1	4.6	70	0.84	80000	3	28.0
YW04015012BM	2B		7~13.2	7300	7.5	6.8	110	1.22	80000	2	32.0
YW04015012BH	2B	12	7~13.2	8600	9.5	8.7	160	1.92	75000	1	36.5
YW04015012SL	S		7~13.2	5800	5.8	4.2	80	0.96	30000	3	24.5
YW04015012SM	S		7~13.2	7300	7.5	6.8	100	1.20	30000	2	32.0
YW04015012SH	S		7~13.2	8600	9.5	8.7	140	1.68	25000	1	36.5

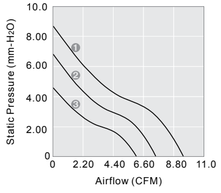
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

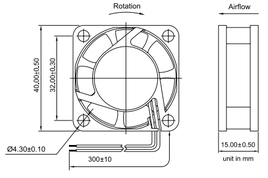
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 1 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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NYW04015 SERIES

Y.S.TECH

40x40x15mm

- **Airflow: 5.6~14.6 CFM**
- **Static Pressure: 2.6~14.6 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 26 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW04015012BL	2B	12	7~13.2	5000	5.6	2.6	90	1.08	80000	6	24.0
NYW04015012BM	2B		7~13.2	6000	6.6	3.5	100	1.20	80000	5	29.3
NYW04015012BH	2B		7~13.2	7000	8.2	5.1	130	1.56	75000	4	33.2
NYW04015012BS	2B		7~13.2	8300	9.4	7.1	190	2.28	65000	3	36.8
NYW04015012BSS	2B		7~13.2	9500	11.2	9.1	240	2.88	65000	2	40.8
NYW04015012BU	2B		7~13.2	11000	14.6	14.6	280	3.36	65000	1	42.5

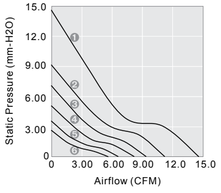
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

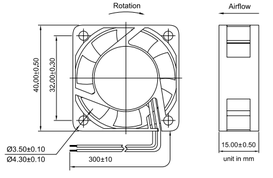
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 1 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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HYW04020 SERIES

40x40x20mm

- **Airflow: 5.7~12.0 CFM**
- **Static Pressure: 3.2~11.5 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 24 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
HYW04020012LL	L		4~5.5	5000	5.7	3.2	250	1.25	50000	5	20.0
HYW04020012LM	L	05	4~5.5	6300	7.2	5.2	350	1.75	80000	4	25.5
HYW04020012LH	L		4~5.5	7600	9.0	6.4	530	2.65	75000	3	29.5
HYW04020012BL	2B		7~13.2	5000	5.7	3.2	70	0.84	80000	5	20.0
HYW04020012BM	2B		7~13.2	6300	7.2	5.2	100	1.20	80000	4	25.5
HYW04020012BH	2B	12	7~13.2	7600	9.0	6.4	140	1.68	75000	3	29.5
HYW04020012BS	2B		7~13.2	8900	10.5	9.2	170	2.04	65000	2	33.5
HYW04020012BU	2B		7~13.2	10000	12.0	11.5	210	2.52	65000	1	37.5
HYW04020024BL	2B		12~26.4	5000	5.7	3.2	40	0.96	80000	5	20.0
HYW04020024BM	2B		12~26.4	6300	7.2	5.2	50	1.20	80000	4	25.5
HYW04020024BH	2B	24	12~26.4	7600	9.0	6.4	70	1.68	75000	3	29.5
HYW04020024BS	2B		12~26.4	8900	10.5	9.2	100	2.40	65000	2	33.5
HYW04020024BU	2B		12~26.4	10000	12.0	11.5	130	3.12	65000	1	37.5

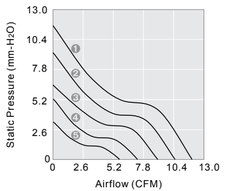
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

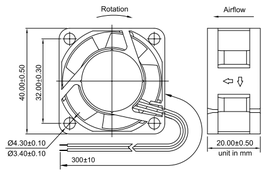
Bearing System Available
2B L S

Function Available
1 1 6 5 4 3 1 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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YW04020-N SERIES

40x40x20mm

- **Airflow: 5.42~11.36 CFM**
- **Static Pressure: 2.21~10.12 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1061 #26 AWG**
- **Weight: 26.9 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW04020005LN	L		4~5.5	4500	6.08	2.81	60	0.30	50000	4	<17.0
YW04020005LM	L	5	4~5.5	6000	8.06	5.02	100	0.50	50000	3	22.0
YW04020005LH	L		4~5.5	7500	10.04	7.87	170	0.85	50000	2	26.5
YW04020005BS	2B		4~5.5	8500	11.36	10.12	210	1.05	65000	1	29.5
YW04020012LL	L		7~13.2	4000	5.42	2.21	30	0.36	50000	5	< 17.0
YW04020012LM	L	12	7~13.2	4500	6.08	2.81	40	0.48	50000	4	<17.0
YW04020012LH	L		7~13.2	6000	8.06	5.02	60	0.72	50000	3	22.0
YW04020012BH	2B		7~13.2	7500	10.04	7.87	110	1.32	50000	2	26.5
YW04020024LL	L		12~26.4	4500	6.08	2.81	30	0.72	50000	4	<17.0
YW04020024LM	L	24	12~26.4	6000	8.06	5.02	45	1.08	50000	3	22.0
YW04020024LH	L		12~26.4	7500	10.04	7.87	60	1.44	50000	2	26.5
YW04020024BS	2B		12~26.4	8500	11.36	10.12	85	2.04	65000	1	29.5

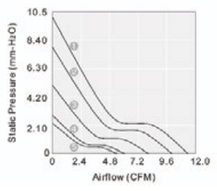
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

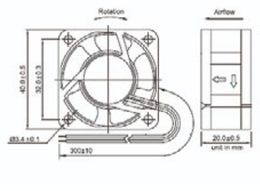
Bearing System Available
2B L S

Function Available
1 1 6 5 4 3 1 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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XYW04028-S SERIES

40x40x28mm

- **Airflow: 13.3~31.9 CFM**
- **Static Pressure: 12.9~63.4 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UI1571 #26 AWG**
- **Weight: 47.1 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW04028012BL-S	2B		7~13.2	9000	13.3	12.9	220	1.80	60000	5	36.6
XYW04028012BM-S	2B		7~13.2	13500	21.3	30.8	440	2.28	60000	4	48.7
XYW04028012BH-S	2B	12	7~13.2	16000	23.4	36.6	620	7.44	60000	3	52.4
XYW04028012BS-S	2B		7~13.2	18000	26.5	50.2	850	10.20	60000	2	55.6
XYW04028012BD-S	2B		7~13.2	20000	31.9	63.4	1100	13.20	60000	1	58.6

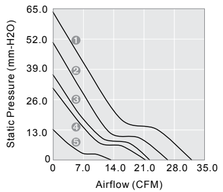
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

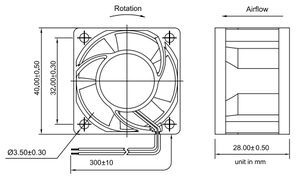
Bearing System Available
2B L S

Function Available
1 1 6 5 4 3 2 7 8 9 10 11 12 13 14

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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XYW04028-E SERIES

40x40x28mm

- **Airflow: 23.61~33.68 CFM**
- **Static Pressure: 44.66~62.52 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1061 #28 AWG**
- **Weight: 48.1 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW04028012BM-E	2B		7~13.2	17000	23.61	44.66	600	7.20	80000	4	52.5
XYW04028012BH-E	2B	12	7~13.2	19000	26.26	50.78	900	10.80	75000	3	56.0
XYW04028012BS-E	2B		7~13.2	21000	29.57	56.02	1200	14.40	65000	2	58.0
XYW04028012BSS-E	2B		7~13.2	23500	33.68	62.52	1800	21.60	65000	1	61.0

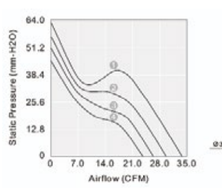
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

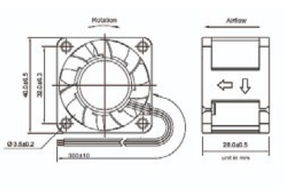
Bearing System Available
2B L S

Function Available
1 1 6 5 4 3 2 7 8 9 10 11 12 13 14

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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XYW04028-P SERIES Y.S.TECH

40x40x28mm

- **Airflow: 10.3~25.9 CFM**
- **Static Pressure: 7.9~39.0 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #28 AWG**
- **Weight: 45.1 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW040280005BH	2B	05	4~5.5	8000	14.4	14.6	480	2.04	75000	5	37.5
XYW04028012BL	2B		7~13.2	5000	10.3	7.9	90	1.08	80000	7	24.5
XYW04028012BM	2B		7~13.2	7000	13.0	12.0	150	1.80	80000	6	34.5
XYW04028012BH	2B		7~13.2	8000	14.4	14.6	180	2.16	75000	5	37.5
XYW04028012BS	2B	12	7~13.2	9500	16.5	18.9	260	3.12	65000	4	41.0
XYW04028012BSE	2B		7~13.2	11000	19.0	26.2	460	5.52	65000	3	47.0
XYW04028012BSS	2B		7~13.2	13000	21.4	31.9	550	6.60	65000	2	49.5
XYW04028012BU	2B		7~13.2	16000	25.9	39.0	750	9.00	65000	1	51.5
XYW04028024BL	2B		12~26.4	5000	10.3	7.9	80	1.92	80000	7	24.5
XYW04028024BM	2B		12~26.4	7000	13.0	12.0	90	2.04	80000	6	34.5
XYW04028024BH	2B		12~26.4	8000	14.4	14.6	160	3.84	75000	5	37.5
XYW04028024BS	2B	24	12~26.4	9500	16.5	18.9	200	4.80	65000	4	41.0
XYW04028024BSE	2B		12~26.4	11000	19.0	26.2	280	6.72	65000	3	47.0
XYW04028024BSS	2B		12~26.4	13000	21.4	31.9	430	10.32	65000	2	49.5

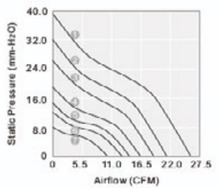
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

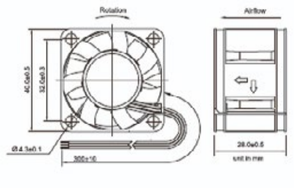
Bearing System Available
2B L S

Function Available
1 1 6 5 4 3 2 17 8 19 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department.
Visit Y.S. TECH web site at *http://www.ystechusa.com/* for updated information. Customized Specifications are designed accordingly.

YW04510 SERIES Y.S.TECH

45x45x10mm

- **Airflow: 8.0~10.3 CFM**
- **Static Pressure: 2.5~4.8 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 17 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW04510005SL	S	05	4~5.5	4900	7.6	2.5	150	0.75	30000	3	28.5
YW04510005SM	S		4~5.5	5300	8.5	3.0	170	0.85	30000	2	30.5
YW04510005SH	S		4~5.5	6300	10.0	4.0	240	1.20	25000	1	35.5
YW04510005BL	2B		4~5.5	5100	8.49	3.1	150	0.75	80000	3	29.0
YW04510005BM	2B		4~5.5	5500	8.7	3.4	170	0.85	80000	2	31.5
YW04510005BH	2B		4~5.5	6500	10.3	4.8	240	1.20	75000	1	37.0
YW04510012SL	S	12	7~13.2	4900	7.6	2.5	90	1.08	30000	3	28.5
YW04510012SM	S		7~13.2	5300	8.5	3.0	120	1.44	30000	2	30.5
YW04510012SH	S		7~13.2	6300	10.0	4.0	140	1.68	25000	1	35.5
YW04510012BL	2B		7~13.2	5100	8.49	3.1	90	1.08	80000	3	29.0
YW04510012BM	2B		7~13.2	5500	8.7	3.4	120	1.44	80000	2	31.5
YW04510012BH	2B		7~13.2	6500	10.3	4.8	140	1.68	75000	1	37.0

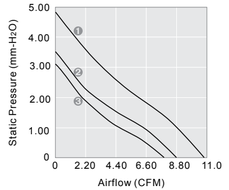
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

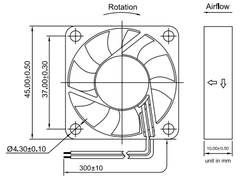
Bearing System Available
2B L S

Function Available
1 1 6 5 4 3 2 17 8 19 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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NYW05010 SERIES Y.S.TECH

50x50x10mm

- **Airflow: 8.3~12.9 CFM**
- **Static Pressure: 1.0~3.0 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 18 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW05010005LL	L	05	7~13.2	3500	8.3	1.0	85	0.43	50000	3	21.8
NYW05010005LM	L		7~13.2	4500	10.9	2.0	140	0.70	50000	2	27.3
NYW05010005LH	L		7~13.2	5500	13.5	3.2	240	1.20	50000	1	31.7
NYW05010012SL	S	12	7~13.2	3500	8.3	1.0	60	0.72	30000	3	21.8
NYW05010012SM	S		7~13.2	4500	10.9	2.0	90	1.08	30000	2	27.3
NYW05010012SH	S		7~13.2	5500	13.5	3.2	125	1.50	25000	1	31.7
NYW05010012BL	2B		7~13.2	3500	8.3	1.0	60	0.72	80000	3	21.8
NYW05010012BM	2B		7~13.2	4500	10.9	2.0	100	1.08	80000	2	27.3
NYW05010012BH	2B		7~13.2	5500	13.5	3.2	180	1.50	75000	1	31.7
NYW05010012LL	L		7~13.2	3500	8.3	1.0	60	0.72	50000	3	21.8
NYW05010012LM	L		7~13.2	4500	10.9	2.0	90	1.08	50000	2	27.3
NYW05010012LH	L		7~13.2	5500	13.5	3.2	125	1.50	50000	1	31.7

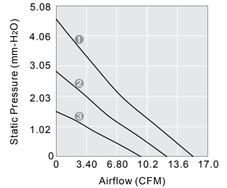
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

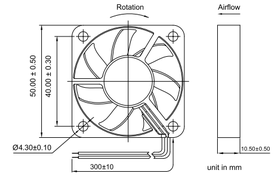
Bearing System Available
2B L S

Function Available
1 1 6 5 4 3 2 17 8 19 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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YW05015 SERIES Y.S.TECH

50x50x15mm

- **Airflow: 12.0~17.1 CFM**
- **Static Pressure: 2.0~4.4 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 27 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW05015005BL	2B	05	4~5.5	3800	12.0	2.0	180	0.90	80000	4	24.5
YW05015005BM	2B		4~5.5	4500	13.1	3.2	250	1.25	80000	3	29.5
YW05015005BH	2B		4~5.5	5000	15.5	3.6	285	1.43	75000	2	31.5
YW05015012BL	2B	12	7~13.2	3800	12.0	2.0	85	1.02	80000	4	24.5
YW05015012BM	2B		7~13.2	4500	13.1	3.2	130	1.56	80000	3	30.0
YW05015012BH	2B		7~13.2	5000	15.5	3.6	170	2.04	75000	2	31.5
YW05015012BS	2B		7~13.2	5500	17.1	4.4	220	2.64	65000	1	36.5
YW05015024BL	2B	24	12~26.4	3800	12.0	2.0	70	1.68	80000	4	24.5
YW05015024BM	2B		12~26.4	4500	13.1	3.2	80	1.92	80000	3	30.0
YW05015024BH	2B		12~26.4	5000	15.5	3.6	90	2.16	75000	2	31.5
YW05015024BS	2B		12~26.4	5500	17.1	4.4	110	2.64	65000	1	36.5

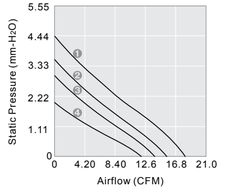
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

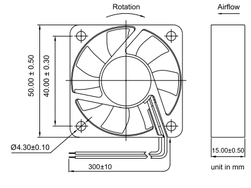
Bearing System Available
2B L S

Function Available
1 1 6 5 4 3 2 17 8 19 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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YW05020 SERIES

Y.S.TECH

50x50x20mm

- **Airflow: 8.9~14.0 CFM**
- **Static Pressure: 2.1~5.5 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 36.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW05020012SL	S	12	7~13.2	3500	8.9	2.1	60	0.72	30000	3	22.5
YW05020012SM	S		7~13.2	4300	11.0	4.0	90	1.08	30000	2	25.0
YW05020012SH	S		7~13.2	5300	13.2	4.7	110	1.32	25000	1	30.0
YW05020012LL	L		7~13.2	3500	8.9	2.1	75	0.90	50000	3	22.5
YW05020012LM	L		7~13.2	4300	11.0	4.0	100	1.20	50000	2	25.0
YW05020012LH	L		7~13.2	5300	13.2	4.7	130	1.56	50000	1	30.0
YW05020012BL	2B		7~13.2	3900	10.0	2.5	60	0.72	80000	3	23.5
YW05020012BM	2B		7~13.2	4800	12.2	4.0	90	1.08	80000	2	28.0
YW05020012BH	2B		7~13.2	5600	14.0	5.5	110	1.32	75000	1	32.5

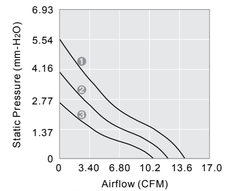
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

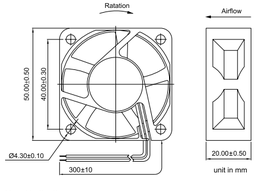
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 1 2 7 8 9 1 0 1 1 1 4 1 2 1 3

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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YW06010 SERIES

Y.S.TECH

60x60x10mm

- **Airflow: 17.3~23.3 CFM**
- **Static Pressure: 2.1~4.0 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 26.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW06010005BL	2B	05	4~5.5	3800	17.3	2.1	260	1.30	80000	3	33.0
YW06010012BL	2B	12	7~13.2	3800	17.3	2.1	140	1.68	80000	3	37.5
YW06010012BM	2B		7~13.2	4500	21.0	3.0	170	2.04	80000	2	38.0
YW06010012BH	2B		7~13.2	5200	23.3	4.0	240	2.88	75000	1	41.0
YW06010012LH	L		7~13.2	5200	23.3	4.0	175	2.10	50000	1	41.0
YW06010012SL	S		7~13.2	3800	17.3	2.1	140	1.68	30000	3	37.5
YW06010012SM	S		7~13.2	4500	21.0	3.0	170	2.04	30000	2	38.0
YW06010012SH	S		7~13.2	5200	23.3	4.0	240	2.88	25000	1	41.0

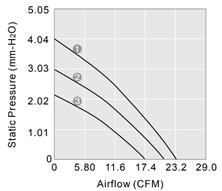
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

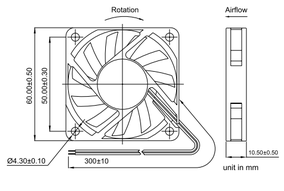
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 1 2 7 8 9 1 0 1 1 1 4 1 2 1 3

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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NYW06015 SERIES

Y.S.TECH

60x60x15mm

- **Airflow: 15.1~30.4 CFM**
- **Static Pressure: 2.0~6.9 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 26.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW06015005SL	S	05	4~5.5	3000	14.3	1.7	110	0.55	30000	5	24.0
NYW06015005SM	S		4~5.5	3900	19.8	3.7	210	1.05	30000	4	33.5
NYW06015005SH	S		4~5.5	4700	23.9	4.5	320	1.60	25000	3	38.0
NYW06015012BL	2B	12	7~13.2	3200	15.2	2.0	100	1.20	80000	5	25.0
NYW06015012BM	2B		7~13.2	4000	20.3	3.9	160	1.92	80000	4	34.0
NYW06015012BH	2B		7~13.2	4700	23.9	4.5	220	2.64	75000	3	38.0
NYW06015012BS	2B		7~13.2	5200	26.4	5.0	270	3.24	65000	2	40.0
NYW06015012BSS	2B		7~13.2	6000	30.4	6.9	400	4.80	65000	1	43.0
NYW06015012SL	S		7~13.2	3000	14.3	1.7	80	0.96	30000	5	24.0
NYW06015012SM	S		7~13.2	3800	19.3	3.5	140	1.68	35000	4	33.0
NYW06015012SH	S		7~13.2	4700	23.9	4.5	220	2.64	25000	3	38.0
NYW06015012SS	S		7~13.2	5000	25.4	4.6	250	3.00	20000	2	39.0
NYW060150124BL	2B	24	12~26.4	3200	15.2	2.0	70	1.68	80000	5	25.0
NYW060150124BM	2B		12~26.4	4000	20.3	3.9	110	2.64	85000	4	34.0
NYW060150124BH	2B		12~26.4	4700	23.9	4.5	145	3.48	75000	3	38.0
NYW060150124BS	2B		12~26.4	5200	26.4	5.0	180	4.32	65000	2	40.0
NYW060150124SL	S		12~26.4	3000	14.3	1.7	90	2.16	30000	5	24.0
NYW060150124SM	S		12~26.4	3800	19.3	3.5	110	2.64	30000	4	32.8
NYW060150124SH	S		12~26.4	4500	23.6	3.9	120	2.88	25000	3	34.8
NYW060150124SS	S		12~26.4	5000	25.4	4.6	180	4.32	20000	2	39.0

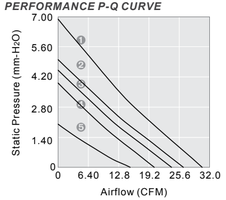
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

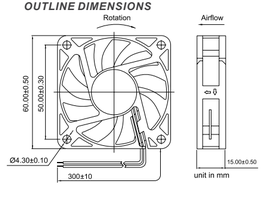
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 1 7 8 1 9 1 0 1 1 1 4 1 2 1 3

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



YW06020 SERIES

Y.S.TECH

60x60x20mm

- **Airflow: 17.0~29.1 CFM**
- **Static Pressure:2.4~7.0 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 44.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW06020012BL	2B	12	7~13.2	3000	17.0	2.4	80	0.96	80000	4	26.0
YW06020012BM	2B		7~13.2	3600	20.0	3.4	110	1.32	80000	3	30.0
YW06020012BH	2B		7~13.2	4200	22.9	4.4	160	1.92	75000	2	35.0
YW06020012BS	2B		7~13.2	5300	29.1	7.0	280	3.36	65000	1	41.0
YW06020012SL	S		7~13.2	2800	15.2	2.0	80	0.96	30000	4	25.0
YW06020012SM	S		7~13.2	3400	18.0	2.7	110	1.32	30000	3	28.0
YW06020012SH	S		7~13.2	4000	21.8	4.0	160	1.92	25000	2	35.0
YW06020012SS	S		7~13.2	5300	29.2	7.0	250	3.00	25000	1	41.0
YW06020024BL	2B	24	12~26.4	3000	17.0	2.4	40	0.96	80000	4	26.0
YW06020024BM	2B		12~26.4	3600	20.0	3.4	70	1.68	80000	3	30.0
YW06020024BH	2B		12~26.4	4200	22.9	4.4	80	1.92	75000	2	35.0
YW06020024SM	S		12~26.4	3400	18.0	2.7	70	1.68	30000	3	28.0
YW06020024SH	S		12~26.4	4000	21.8	4.0	80	1.92	25000	2	35.0

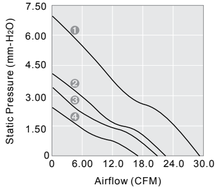
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

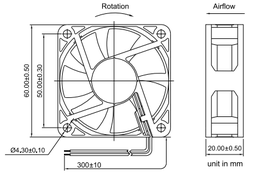
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 1 2 7 8 1 9 1 0 1 1 1 4 1 2 1 3

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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NYW06025 SERIES

Y.S. TECH

60x60x25mm

- **Airflow: 15.8~40.1 CFM**
- **Static Pressure: 2.4~14.2 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 56 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW06025012BL	2B	12	7~13.2	2800	15.8	2.4	80	0.96	80000	5	23.5
NYW06025012BM	2B		7~13.2	3700	20.0	3.8	120	1.44	80000	4	29.5
NYW06025012BH	2B		7~13.2	4300	25.4	5.5	150	1.80	75000	3	34.0
NYW06025012BS	2B		7~13.2	5200	29.3	6.3	210	2.52	65000	2	40.5
NYW06025012BSS	2B		7~13.2	6800	40.1	14.2	330	3.96	65000	1	48.0
NYW06025024BL	2B	24	12~26.4	2800	15.8	2.4	50	1.20	80000	5	23.5
NYW06025024BM	2B		12~26.4	3700	20.0	3.8	70	1.68	80000	4	29.5
NYW06025024BH	2B		12~26.4	4300	25.4	5.5	90	2.16	75000	3	34.0
NYW06025024BS	2B		12~26.4	5200	29.3	6.3	110	2.64	65000	2	40.5
NYW06025024BSS	2B		12~26.4	6800	40.1	14.2	210	5.04	65000	1	48.0
NYW06025048BL	2B	48	24~56.0	2800	15.8	2.4	30	1.44	80000	5	23.5
NYW06025048BM	2B		24~56.0	3700	20.0	3.8	45	2.16	80000	4	29.5
NYW06025048BH	2B		24~56.0	4300	25.4	5.5	50	2.40	75000	3	34.0
NYW06025048BS	2B		24~56.0	5200	29.3	6.3	80	3.84	65000	2	40.5

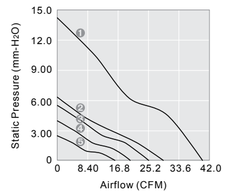
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

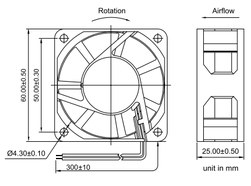
Bearing System Available: 2B L S

Function Available: 1 16 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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NYW06025-W SERIES

Y.S. TECH

60x60x25mm

- **Airflow: 14.4~50.2 CFM**
- **Static Pressure: 5.0~27.6 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 56 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW06025012BL-W	2B	12	7~13.2	3000	14.4	5.0	50	0.60	80000	9	25.0
NYW06025012BM-W	2B		7~13.2	4100	19.7	7.5	80	0.96	80000	8	31.0
NYW06025012BH-W	2B		7~13.2	5100	24.5	9.3	120	1.44	75000	7	36.0
NYW06025012BS-W	2B		7~13.2	5600	26.9	10.2	150	1.80	65000	6	38.1
NYW06025012BSS-W	2B		7~13.2	6500	31.2	11.8	190	2.28	65000	5	41.0
NYW06025012BF-W	2B		7~13.2	7500	35.9	13.2	300	3.60	65000	4	44.5
NYW06025012BG-W	2B		7~13.2	8500	40.6	17.4	420	5.04	65000	3	47.0
NYW06025012BJ-W	2B		7~13.2	9500	45.4	22.2	630	7.56	65000	2	49.0
NYW06025012BU-W	2B		7~13.2	10500	50.2	27.6	900	10.80	65000	1	51.5
NYW06025024BL-W	2B	24	12~26.4	3000	14.4	5.0	35	0.84	80000	9	25.0
NYW06025024BM-W	2B		12~26.4	4100	19.7	7.5	55	1.32	80000	8	31.0
NYW06025024BH-W	2B		12~26.4	5100	24.5	9.3	75	1.80	75000	7	36.0
NYW06025024BSS-W	2B		12~26.4	6500	31.2	11.8	110	2.64	65000	5	41.0
NYW06025024BU-W	2B		12~26.4	10500	50.2	27.6	410	9.84	65000	1	51.5
NYW06025048BL-W	2B	48	24~56.0	3000	14.4	5.0	30	1.44	65000	9	25.0
NYW06025048BM-W	2B		24~56.0	4100	19.7	7.5	40	1.92	80000	8	31.0
NYW06025048BH-W	2B		24~56.0	5100	24.5	9.3	55	2.64	80000	7	36.0
NYW06025048BSS-W	2B		24~56.0	6800	32.7	12.4	80	3.84	65000	5	42.0
NYW06025048BU-W	2B		24~56.0	10500	50.2	27.6	240	11.52	65000	1	51.5

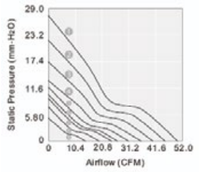
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

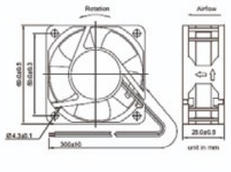
Bearing System Available: 2B L S

Function Available: 1 16 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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XYW06038 SERIES

Y.S. TECH

60x60x38mm

- **Airflow: 26.7~45.5 CFM**
- **Static Pressure: 8.1~22.9 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 115.6 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW06038012BL	2B	12	7~13.2	4500	26.7	8.1	190	2.28	80000	4	41.0
XYW06038012BM	2B		7~13.2	5500	32.6	12.2	260	3.12	80000	3	47.0
XYW06038012BH	2B		7~13.2	6500	38.5	16.5	450	5.40	75000	2	51.0
XYW06038012BSS	2B		7~13.2	7500	45.5	22.9	720	8.64	65000	1	55.0
XYW06038024BL	2B	24	12~26.4	4500	26.7	8.1	110	2.64	80000	4	41.0
XYW06038024BM	2B		12~26.4	5500	32.6	12.2	170	4.08	80000	3	47.0
XYW06038024BH	2B		12~26.4	6500	38.5	16.5	250	6.00	75000	2	51.0
XYW06038024BSS	2B		12~26.4	7500	45.5	22.9	360	8.64	65000	1	55.0
XYW06038048BL	2B	48	24~56.0	4500	26.7	8.1	70	3.36	80000	4	41.0
XYW06038048BM	2B		24~56.0	5500	32.6	12.2	90	4.32	80000	3	47.0
XYW06038048BH	2B		24~56.0	6500	38.5	16.5	130	6.24	75000	2	51.0
XYW06038048BSS	2B		24~56.0	7500	45.5	22.9	190	9.12	65000	1	55.0

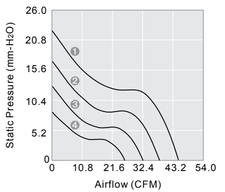
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

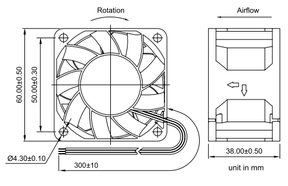
Bearing System Available: 2B L S

Function Available: 1 16 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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HYW07010 SERIES

Y.S. TECH

70x70x10mm

- **Airflow: 14.9~31.0 CFM**
- **Static Pressure: 2.3~4.8 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 35.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
HYW07010005BL	2B	05	4~5.5	2300	14.9	2.3	160	0.80	80000	6	20.5
HYW07010005BM	2B		4~5.5	2700	17.5	2.7	200	1.00	80000	5	24.0
HYW07010005BH	2B		4~5.5	3100	20.1	3.1	270	1.35	75000	4	27.0
HYW07010012BL	2B	12	7~13.2	3700	23.9	3.7	130	1.56	80000	3	31.0
HYW07010012BM	2B		7~13.2	4300	27.8	4.3	170	2.04	80000	2	34.5
HYW07010012BH	2B		7~13.2	4800	31.0	4.8	240	2.88	75000	1	37.0

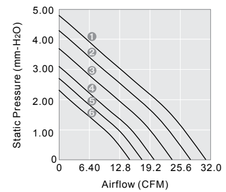
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

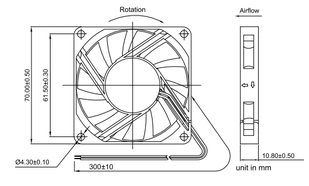
Bearing System Available: 2B L S

Function Available: 1 16 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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YW07015 SERIES

70x70x15mm

- **Airflow: 27.9~39.5 CFM**
- **Static Pressure: 3.5~6.8 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 54.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW07015012BL	2B	12	7~13.2	3800	27.9	3.5	130	1.56	80000	4	34.0
YW07015012BM	2B		7~13.2	4300	31.6	4.4	190	2.28	80000	3	39.0
YW07015012BH	2B		7~13.2	4800	35.3	5.4	260	3.12	75000	2	41.5
YW07015012BS	2B		7~13.2	5500	39.5	6.8	400	4.80	65000	1	45.5
YW07015012SL	S		7~13.2	3800	27.9	3.5	160	1.86	30000	4	34.0
YW07015012SM	S		7~13.2	4300	31.6	4.4	220	2.64	30000	3	39.0
YW07015012SH	S		7~13.2	4800	35.3	5.4	280	3.36	25000	2	41.5

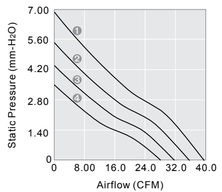
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

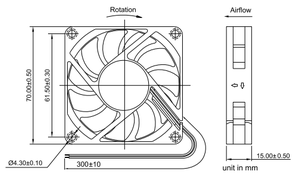
Bearing System Available: 2B L S

Function Available: 1 1 6 5 6 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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YW07025 SERIES

70x70x25mm

- **Airflow: 25.0~49.0 CFM**
- **Static Pressure: 3.0~10.06 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 82.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW07025012BL	2B	12	7~13.2	3000	25.8	3.1	90	1.08	80000	4	29.0
YW07025012BM	2B		7~13.2	4000	33.1	5.0	170	2.04	80000	3	34.5
YW07025012BH	2B		7~13.2	5000	40.5	7.2	300	3.60	75000	2	41.0
YW07025012BSS	2B		7~13.2	6000	49.0	10.6	400	4.80	65000	1	47.0
YW07025012BU	2B		7~13.2	8200	66.3	23.6	700	8.40	65000	1	55.0
YW07025012LL	L		7~13.2	3000	25.8	3.1	70	0.84	50000	4	29.0
YW07025012LM	L		7~13.2	4000	33.1	5.0	125	1.50	50000	3	34.5
YW07025012LH	L		7~13.2	5000	40.9	7.6	210	2.52	50000	2	41.0
YW07025012LS	L		7~13.2	6000	52.7	14.5	460	5.52	65000	1	49.7
YW07025012SL	S		7~13.2	2900	24.9	3.0	110	1.32	30000	4	28.0
YW07025012SM	S		7~13.2	3900	33.0	4.9	210	2.52	30000	3	33.5
YW07025012SH	S		7~13.2	4900	36.7	7.1	300	3.60	25000	2	40.0
YW07025012SS	S		7~13.2	5900	48.1	10.2	400	4.80	20000	1	46.0
YW07025024BL	2B	24	12~26.4	3000	25.8	3.1	50	1.20	80000	4	29.0
YW07025024BM	2B		12~26.4	3900	33.3	5.0	75	1.80	80000	3	33.5
YW07025024BH	2B		12~26.4	5000	40.5	7.6	140	3.36	75000	2	41.0
YW07025024BS	2B		12~26.4	6000	49.0	10.6	320	7.68	65000	1	47.0
YW07025024SL	S		12~26.4	3000	25.8	3.1	65	1.56	30000	4	29.0
YW07025024SM	S		12~26.4	4000	33.1	5.0	120	2.88	30000	3	34.5
YW07025024SH	S		12~26.4	5000	40.9	7.6	180	4.32	25000	2	41.0
YW07025024SS	S		12~26.4	6000	49.0	10.6	320	7.68	20000	1	47.0

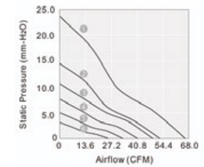
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

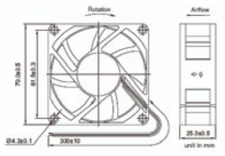
Bearing System Available: 2B L S

Function Available: 1 1 6 5 6 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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YW08015 SERIES

80x80x15mm

- **Airflow: 23.5~50.2 CFM**
- **Static Pressure: 1.4~5.8 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 50.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW08015012BL-Q	2B	12	7~13.2	2100	23.5	1.4	70	0.84	80000	5	19.0
YW08015012BM-Q	2B		7~13.2	2600	29.1	1.9	100	1.20	80000	4	27.0
YW08015012BH-Q	2B		7~13.2	3200	35.8	2.7	190	2.28	75000	3	33.0
YW08015012BS-Q	2B		7~13.2	3900	43.6	4.3	250	3.00	65000	2	38.5
YW08015012BSS-Q	2B		7~13.2	4500	50.2	5.8	380	4.56	65000	1	42.0
YW08015012LL-Q	L		7~13.2	2100	23.5	1.4	90	1.08	50000	5	19.0
YW08015012LM-Q	L		7~13.2	2600	29.1	1.9	140	1.68	50000	4	27.0
YW08015012LH-Q	L		7~13.2	3200	35.8	2.7	250	3.00	50000	3	30.5
YW08015012LS-Q	L		7~13.2	3900	43.6	4.3	330	3.96	50000	2	35.0

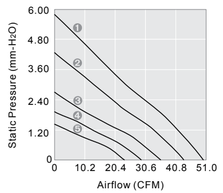
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

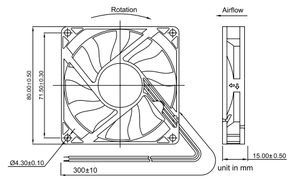
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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YW08020 SERIES

80x80x20mm

- **Airflow: 22.7~45.2 CFM**
- **Static Pressure: 1.3~4.4 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 85.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW08020012BL	2B	12	7~13.2	2100	23.3	1.4	100	1.20	80000	4	22.9
YW08020012BM	2B		7~13.2	2600	31.0	2.2	110	1.32	80000	3	27.0
YW08020012BH	2B		7~13.2	3100	36.9	3.2	150	1.80	75000	2	33.5
YW08020012BS	2B		7~13.2	3600	45.2	4.4	200	2.40	65000	1	38.0
YW08020012LL	L		7~13.2	1900	22.8	1.3	50	0.60	50000	4	22.5
YW08020012LM	L		7~13.2	2400	28.9	1.9	80	0.96	50000	3	25.0
YW08020012LH	L		7~13.2	2900	34.5	2.7	130	1.56	50000	2	29.1
YW08020012SL	S		7~13.2	1900	22.7	1.3	60	0.72	30000	4	22.5
YW08020012SM	S		7~13.2	2400	28.9	1.9	90	1.08	30000	3	25.0
YW08020012SH	S		7~13.2	2900	34.5	2.7	130	1.56	25000	2	29.5
YW08020024BL	2B	24	12~26.4	2100	23.3	1.4	50	1.20	80000	4	22.9
YW08020024BM	2B		12~26.4	2600	31.0	2.2	66	1.58	80000	3	27.0
YW08020024BH	2B		12~26.4	3100	36.9	3.2	100	2.40	75000	2	33.5
YW08020024SM	S		12~26.4	2400	28.9	1.9	70	1.68	30000	3	25.0
YW08020024SH	S		12~26.4	2900	34.5	2.7	100	2.40	25000	2	29.5

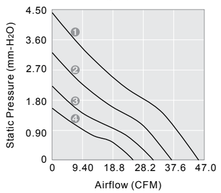
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

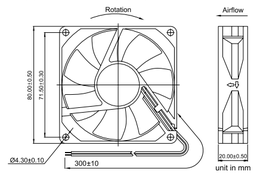
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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EYW08025 SERIES

80x80x25mm

- **Airflow: 31.4~54.5 CFM**
- **Static Pressure: 2.0~5.9 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 88 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
EYW08025012BL	2B	12	7~13.2	2000	31.4	2.0	100	1.20	80000	5	26.6
EYW08025012BM	2B		7~13.2	2300	36.2	2.6	130	1.56	80000	4	29.6
EYW08025012BH	2B		7~13.2	2700	42.3	3.5	190	2.28	75000	3	33.1
EYW08025012BS	2B		7~13.2	3100	48.4	4.6	280	3.36	65000	2	36.1
EYW08025012BSS	2B		7~13.2	3500	54.5	5.9	300	3.60	65000	1	38.7
EYW08025024BL	2B	24	12~26.4	2000	31.4	2.0	55	1.32	80000	5	26.6
EYW08025024BM	2B		12~26.4	2300	36.2	2.6	70	1.68	80000	4	29.6
EYW08025024BH	2B		12~26.4	2700	42.3	3.5	90	2.16	75000	3	33.1
EYW08025024BS	2B		12~26.4	3100	48.4	4.6	130	3.12	65000	2	36.1
EYW08025024BSS	2B		12~26.4	3500	54.5	5.9	140	3.36	65000	1	38.7
EYW08025048BL	2B	48	24~56.0	2000	31.4	2.0	40	1.92	80000	5	26.6
EYW08025048BM	2B		24~56.0	2300	36.2	2.6	50	2.40	80000	4	29.6
EYW08025048BH	2B		24~56.0	2700	42.3	3.5	70	3.36	75000	3	33.1
EYW08025048BS	2B		24~56.0	3100	48.4	4.6	90	4.32	65000	2	36.1
EYW08025048BSS	2B		24~56.0	3500	54.5	5.9	110	5.28	65000	1	38.7

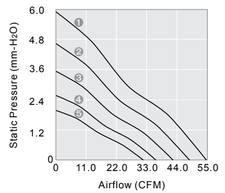
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

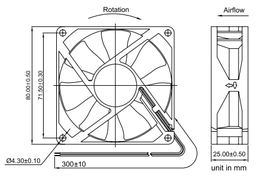
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 1 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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NYW08025 SERIES

80x80x25mm

- **Airflow: 26.3~59.6 CFM**
- **Static Pressure: 2.0~8.8 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 100 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW08025012SL	S	12	7~13.2	2100	26.3	2.0	100	0.96	30000	6	26.0
NYW08025012SM	S		7~13.2	2600	32.7	3.1	130	1.56	30000	5	29.5
NYW08025012SH	S		7~13.2	3200	40.4	3.9	190	2.40	25000	4	35.5
NYW08025012SS	S		7~13.2	3500	46.0	5.2	250	3.00	20000	3	38.5
NYW08025012BL	2B		7~13.2	2300	28.8	2.2	80	0.96	80000	6	27.0
NYW08025012BM	2B		7~13.2	2900	36.9	3.6	130	1.56	80000	5	32.0
NYW08025012BH	2B		7~13.2	3400	41.7	4.5	140	1.68	75000	4	37.5
NYW08025012BS	2B		7~13.2	3700	48.5	5.8	250	3.00	65000	3	39.5
NYW08025012BSS	2B		7~13.2	4500	59.6	8.8	280	3.36	65000	2	44.0
NYW08025012BU	2B		7~13.2	5500	64.1	12.5	500	6.00	65000	1	48.0
NYW08025024BL	2B	24	12~26.4	2300	28.8	2.2	60	1.44	80000	6	27.0
NYW08025024BM	2B		12~26.4	2900	36.9	3.6	80	1.92	80000	5	32.0
NYW08025024BH	2B		12~26.4	3400	41.7	4.5	100	2.40	75000	4	37.5
NYW08025024BS	2B		12~26.4	3700	48.5	5.8	110	2.64	65000	3	39.5
NYW08025024BSS	2B		12~26.4	4500	59.6	8.8	200	4.80	65000	2	44.0
NYW08025048BM	2B	48	24~56.0	2900	36.9	3.6	45	2.16	80000	5	32.0
NYW08025048BH	2B		24~56.0	3400	41.7	4.5	80	3.84	75000	4	37.5
NYW08025048BS	2B		24~56.0	3700	48.5	5.9	90	4.08	75000	3	39.5

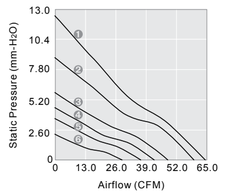
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

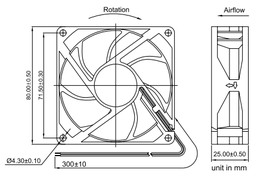
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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YW08025 SERIES

80x80x25mm

- **Airflow: 27.9~48.5 CFM**
- **Static Pressure: 1.3~3.8 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 88 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW08025012SL	S	12	7~13.2	1900	27.9	1.3	100	1.20	30000	4	22.5
YW08025012SM	S		7~13.2	2400	35.4	2.1	160	1.92	30000	3	27.5
YW08025012SH	S		7~13.2	2900	43.7	2.9	230	2.76	25000	2	33.5
YW08025012SS	S		7~13.2	3200	47.4	3.6	260	3.12	20000	1	36.0
YW08025012BL	2B		7~13.2	2000	30.0	1.5	100	1.20	80000	4	23.5
YW08025012BM	2B		7~13.2	2500	37.0	2.1	160	1.92	80000	3	30.0
YW08025012BH	2B		7~13.2	3000	45.2	3.1	230	2.76	75000	2	34.5
YW08025012BS	2B		7~13.2	3300	48.5	3.8	260	3.12	65000	1	37.0
YW08025024BL	2B	24	12~26.4	2000	30.0	1.5	60	1.44	80000	4	23.5
YW08025024BM	2B		12~26.4	2500	37.0	2.2	80	1.92	80000	3	30.0
YW08025024BH	2B		12~26.4	3000	45.2	3.1	130	3.12	75000	2	34.5
YW08025048BL	2B	48	24~56.0	2000	30.0	1.5	30	1.44	80000	4	23.5
YW08025048BM	2B		24~56.0	2500	37.0	2.2	50	2.40	80000	3	30.0
YYW08025048BH	2B		24~56.0	3000	45.2	3.1	90	4.08	80000	2	34.5
YYW08025048BS	2B		24~56.0	3300	48.5	3.8	110	5.28	65000	1	37.0

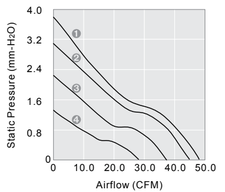
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

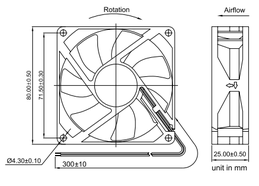
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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XYW08032 SERIES

80x80x32mm

- **Airflow: 48.6~80.5 CFM**
- **Static Pressure: 13.5~22.3 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 148.2 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW08032012BL	2B	12	7~13.2	3500	48.6	13.5	240	2.88	80000	4	45.0
XYW08032012BM	2B		7~13.2	4200	58.3	16.2	350	4.20	80000	3	49.0
XYW08032012BH	2B		7~13.2	5000	69.4	19.2	650	7.80	75000	2	53.0
XYW08032012BS	2B		7~13.2	5800	80.5	22.3	830	9.96	65000	1	56.0
XYW08032024BL	2B	24	12~26.4	3500	48.6	13.5	150	3.60	80000	4	45.0
XYW08032024BM	2B		12~26.4	4200	58.3	16.2	220	5.28	80000	3	49.0
XYW08032024BH	2B		12~26.4	5000	69.4	19.2	330	7.92	75000	2	53.0
XYW08032024BS	2B		12~26.4	5800	80.5	22.3	450	10.80	65000	1	56.0

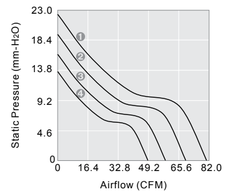
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

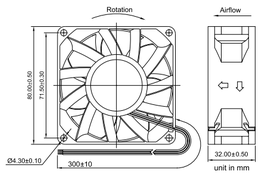
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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XYW08038 SERIES

Y.S.TECH

80x80x38mm

- **Airflow: 47.6~132.9 CFM**
- **Static Pressure: 7.5~45.3 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 172.6 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW08038012BL	2B		7~13.2	3400	47.6	7.5	240	2.88	80000	6	41.5
XYW08038012BM	2B		7~13.2	4200	58.9	11.2	380	4.56	80000	5	47.0
XYW08038012BH	2B	12	7~13.2	4900	69.2	15.2	580	9.69	75000	4	51.5
XYW08038012BS	2B		7~13.2	5700	81.2	20.5	800	9.60	65000	3	55.0
XYW08038012BSS	2B		7~13.2	8000	116.0	37.2	2000	24.0	65000	2	62.5
XYW08038012BU	2B		7~13.2	9000	132.9	45.3	2700	32.4	60000	1	65.0
XYW08038024BL	2B		12~26.4	3400	47.6	7.5	130	3.12	80000	6	41.5
XYW08038024BM	2B	24	12~26.4	4200	58.9	11.2	200	4.80	80000	5	47.0
XYW08038024BH	2B		12~26.4	4900	69.2	15.2	280	6.72	75000	2	51.5
XYW08038024BS	2B		12~26.4	5700	81.2	20.5	420	10.08	65000	1	55.0
XYW08038048BL	2B		24~56.0	3400	47.6	7.5	80	3.84	80000	5	41.5
XYW08038048BM	2B		24~56.0	4200	58.9	11.2	110	5.28	80000	4	47.0
XYW08038048BH	2B	48	24~56.0	4900	69.2	15.2	150	7.20	75000	3	51.5
XYW08038048BS	2B		24~56.0	5700	81.2	20.5	200	9.60	65000	2	55.0

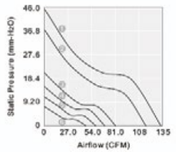
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

Bearing System Available
2B L S

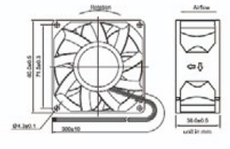
Function Available
1 1 6 5 4 3 1 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



Airflow (CFM)

OUTLINE DIMENSIONS



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XYW08038-S SERIES

Y.S.TECH

80x80x38mm

- **Airflow: 77.2~153.8 CFM**
- **Static Pressure: 18.6~62.6 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 185.5 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW08038012BL-S	2B		7~13.2	6000	77.2	18.6	530	6.36	60000	5	48.4
XYW08038012BM-S	2B		7~13.2	7000	89.8	25.2	750	9.00	60000	4	53.3
XYW08038012BH-S	2B	12	7~13.2	8500	109.1	34.2	1250	15.00	60000	3	58.8
XYW08038012BS-S	2B		7~13.2	10000	127.6	46.8	1900	22.80	60000	2	62.8
XYW08038012BV-S	2B		7~13.2	12000	153.8	62.6	3100	37.20	60000	1	68.1
XYW08038024BL-S	2B		11~28.0	6000	77.2	18.6	340	8.16	60000	5	48.4
XYW08038024BM-S	2B		11~28.0	7000	89.8	25.2	400	9.60	60000	4	53.3
XYW08038024BH-S	2B	24	11~28.0	8500	109.1	34.2	620	14.88	60000	3	58.8
XYW08038024BS-S	2B		11~28.0	10000	127.6	46.8	1000	24.00	60000	2	62.8
XYW08038024BV-S	2B		11~28.0	12000	153.8	62.6	1550	37.20	60000	1	68.1
XYW08038048BL-S	2B		36~56.0	6000	77.2	18.6	200	9.60	60000	5	48.4
XYW08038048BM-S	2B		36~56.0	7000	89.8	25.2	240	11.52	60000	4	53.3
XYW08038048BH-S	2B	48	36~56.0	8500	109.1	34.2	310	14.88	60000	3	58.8
XYW08038048BS-S	2B		36~56.0	10000	127.6	46.8	440	21.12	60000	2	62.8
XYW08038048BV-S	2B		36~56.0	12000	153.8	62.6	800	38.40	60000	1	68.1

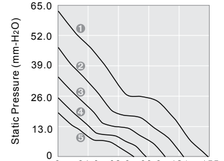
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

Bearing System Available
2B L S

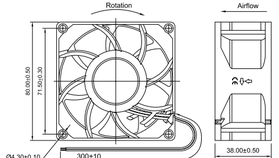
Function Available
1 1 6 5 4 3 1 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



Airflow (CFM)

OUTLINE DIMENSIONS



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NYW09225 SERIES

Y.S.TECH

92x92x25mm

- **Airflow: 45.8~73.4 CFM**
- **Static Pressure: 3.1~7.2 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 100.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
NYW09225012SL	S		7~13.2	2400	45.8	3.1	150	1.80	30000	5	32.5
NYW09225012SM	S		7~13.2	2800	53.5	4.3	220	2.64	30000	4	38.0
NYW09225012SH	S		7~13.2	3100	58.6	5.2	260	3.12	25000	3	40.0
NYW09225012SS	S		7~13.2	3500	67.3	5.9	340	4.08	20000	2	43.0
NYW09225012SSS	S		7~13.2	3800	73.4	7.3	470	5.64	20000	1	45.5
NYW09225012BL	2B	12	7~13.2	2400	45.8	3.1	150	1.80	80000	5	32.5
NYW09225012BM	2B		7~13.2	2800	53.5	4.3	220	2.64	80000	4	38.0
NYW09225012BH	2B		7~13.2	3100	58.6	5.2	260	3.12	75000	3	40.0
NYW09225012BS	2B		7~13.2	3500	67.3	5.9	340	4.08	65000	2	43.0
NYW09225012BSS	2B		7~13.2	3800	73.4	7.2	470	5.64	65000	1	45.5
NYW09225024BL	2B		12~26.4	2400	45.8	3.1	90	2.16	80000	5	32.5
NYW09225024BM	2B	24	12~26.4	2800	53.5	4.3	120	2.88	80000	4	38.0
NYW09225024BH	2B		12~26.4	3100	58.6	5.2	160	3.84	75000	3	40.0
NYW09225024BS	2B		12~26.4	3500	67.3	5.9	200	4.80	65000	2	43.0
NYW09225024BSS	2B		12~26.4	3800	73.4	7.3	270	6.48	65000	1	45.5
NYW09225048BL	2B		24~56.0	2400	45.8	3.1	55	2.64	80000	5	32.5
NYW09225048BM	2B	48	24~56.0	2800	53.5	4.3	80	3.84	80000	4	38.0
NYW09225048BH	2B		24~56.0	3100	58.6	5.2	100	4.80	75000	3	40.0
NYW09225048BS	2B		24~56.0	3500	67.3	5.9	150	7.20	65000	2	43.0

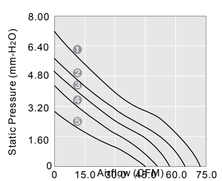
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

Bearing System Available
2B L S

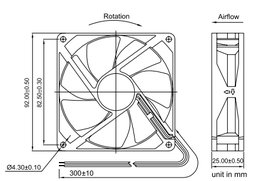
Function Available
1 1 6 5 4 3 1 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



Airflow (CFM)

OUTLINE DIMENSIONS



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YW09225 SERIES

Y.S.TECH

92x92x25mm

- **Airflow: 38.1~75.0 CFM**
- **Static Pressure: 1.5~4.8 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 100.0 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW09225012SL	S		7~13.2	1800	38.1	1.5	100	1.20	30000	5	25.0
YW09225012SM	S		7~13.2	2300	48.7	2.2	160	1.92	30000	4	32.0
YW09225012SH	S		7~13.2	2700	61.4	2.7	200	2.40	25000	3	36.5
YW09225012SSS	S		7~13.2	3000	63.1	3.3	260	3.12	20000	2	39.0
YW09225012BL	2B	12	7~13.2	1900	40.2	1.7	100	1.20	80000	5	25.0
YW09225012BM	2B		7~13.2	2400	50.8	2.4	160	1.92	80000	4	33.0
YW09225012BH	2B		7~13.2	2800	63.7	3.0	230	2.76	75000	3	37.5
YW09225012BS	2B		7~13.2	3100	66.3	3.7	260	3.12	65000	2	40.0
YW09225012BSS	2B		7~13.2	3500	75.0	4.8	360	4.32	65000	1	42.5
YW09225024BL	2B		12~26.4	1900	40.2	1.7	60	1.44	80000	5	25.0
YW09225024BM	2B	24	12~26.4	2400	50.8	2.4	80	1.92	80000	4	33.0
YW09225024BH	2B		12~26.4	2800	63.7	3.0	130	3.12	75000	3	37.5
YW09225024BS	2B		12~26.4	3600	81.9	3.9	190	4.56	65000	1	47.5
YW09225048BL	2B		24~56.0	1900	40.2	1.7	30	1.44	80000	5	25.0
YW09225048BM	2B	48	24~56.0	2400	50.8	2.4	55	2.64	80000	4	33.0
YW09225048BH	2B		24~56.0	2800	63.7	3.0	70	3.36	75000	3	37.5

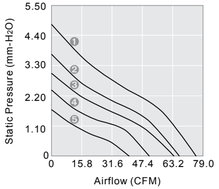
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

Bearing System Available
2B L S

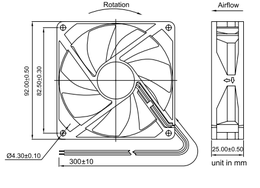
Function Available
1 1 6 5 4 3 1 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



Airflow (CFM)

OUTLINE DIMENSIONS



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XYW09225-S SERIES Y.S.TECH

92x92x25mm

- **Airflow: 76.2~109.3 CFM**
- **Static Pressure: 9.2~16.4 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 117.6 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW09225012BL-S	2B	12	7~13.2	3800	76.2	9.2	350	4.20	80000	4	44.0
XYW09225012BM-S	2B		7~13.2	4300	87.8	11.6	450	5.40	80000	3	47.0
XYW09225012BH-S	2B		7~13.2	4800	100.3	15.0	650	7.80	75000	2	49.0
XYW09225012BS-S	2B		7~13.2	5300	109.3	16.4	900	10.8	65000	1	51.0
XYW09225024BL-S	2B	24	12~26.4	3800	76.2	9.2	190	4.56	80000	4	44.0
XYW09225024BM-S	2B		12~26.4	4300	87.8	11.6	260	6.24	80000	3	47.0
XYW09225024BH-S	2B		12~26.4	4800	100.3	15.0	350	8.40	75000	2	49.0
XYW09225024BS-S	2B		12~26.4	5300	109.3	16.4	450	10.8	65000	1	51.0
XYW09225048BL-S	2B	48	24~56.0	3800	76.2	9.2	110	5.28	80000	4	44.0
XYW09225048BM-S	2B		24~56.0	4300	87.8	11.6	130	6.24	80000	3	47.0
XYW09225048BH-S	2B		24~56.0	4800	100.3	15.0	170	8.16	75000	2	49.0
XYW09225048BS-S	2B		24~56.0	5300	109.3	16.4	220	10.6	65000	1	51.0

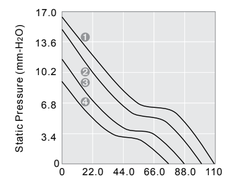
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

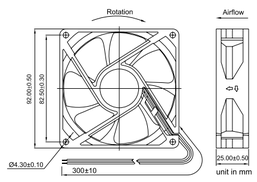
Bearing System Available: 2B L S

Function Available: 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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XYW09238-S SERIES Y.S.TECH

92x92x38mm

- **Airflow: 97.1~196.5 CFM**
- **Static Pressure: 15.2~52.4 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 201.5 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW09238012BL-S	2B	12	7~13.2	5000	97.1	15.2	450	5.40	60000	5	50.9
XYW09238012BM-S	2B		7~13.2	6000	118.0	23.4	750	9.00	60000	4	54.3
XYW09238012BH-S	2B		7~13.2	7000	132.2	28.1	1150	13.80	60000	3	57.5
XYW09238012BS-S	2B		7~13.2	8500	162.3	38.2	1900	22.80	60000	2	61.7
XYW09238012BSS-S	2B		7~13.2	10000	196.5	52.4	3200	38.40	60000	1	66.3
XYW09238024BL-S	2B	24	11~28.0	5000	97.1	15.2	260	6.24	60000	5	50.9
XYW09238024BM-S	2B		11~28.0	6000	118.0	23.4	380	9.12	60000	4	54.3
XYW09238024BH-S	2B		11~28.0	7000	132.2	28.1	580	13.92	60000	3	57.5
XYW09238024BS-S	2B		11~28.0	8500	162.3	38.2	1000	24.00	60000	2	61.7
XYW09238024BSS-S	2B		11~28.0	10000	196.5	52.4	1600	38.40	60000	1	66.3
XYW09238048BL-S	2B	48	36~56.0	5000	97.1	15.2	120	7.20	60000	5	50.9
XYW09238048BM-S	2B		36~56.0	6000	118.0	23.4	190	9.60	60000	4	54.3
XYW09238048BH-S	2B		36~56.0	7000	132.2	28.1	290	13.92	60000	3	57.5
XYW09238048BS-S	2B		36~56.0	8500	162.3	38.2	500	24.00	60000	2	61.7
XYW09238048BSS-S	2B		36~56.0	10000	196.5	52.4	800	38.40	60000	1	66.3

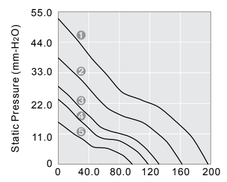
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

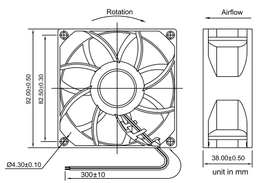
Bearing System Available: 2B L S

Function Available: 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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XYW09238 SERIES Y.S.TECH

92x92x38mm

- **Airflow: 80.5~117.3 CFM**
- **Static Pressure: 7.8~15.5 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 198.4 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW09238012BL	2B	12	7~13.2	3300	80.5	7.8	450	5.40	80000	5	48.0
XYW09238012BM	2B		7~13.2	3800	92.6	10.9	640	9.00	80000	4	51.0
XYW09238012BH	2B		7~13.2	4300	103.8	13.1	950	13.80	75000	3	55.0
XYW09238012BS	2B		7~13.2	4900	117.3	15.5	1700	22.80	65000	2	57.0
XYW09238012BSS	2B		7~13.2	7000	168.0	33.1	2800	38.40	65000	1	65.0
XYW09238024BL	2B	24	12~26.4	3300	80.5	7.8	250	5.52	80000	5	48.0
XYW09238024BM	2B		12~26.4	3800	92.6	10.9	350	9.12	80000	4	51.0
XYW09238024BH	2B		12~26.4	4300	103.8	13.1	470	13.92	75000	3	55.0
XYW09238024BS	2B		12~26.4	4900	117.3	15.5	600	24.00	65000	2	57.0
XYW09238048BL	2B	48	24~56.0	3300	80.5	7.8	130	5.76	80000	5	48.0
XYW09238048BM	2B		24~56.0	3800	92.6	10.9	170	9.12	80000	4	51.0
XYW09238048BH	2B		24~56.0	4300	103.8	13.1	290	13.92	75000	3	55.0
XYW09238048BS	2B		24~56.0	4900	117.3	15.5	290	24.00	65000	2	57.0

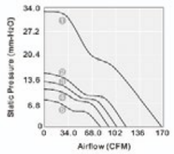
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

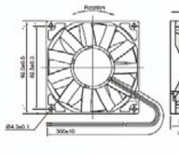
Bearing System Available: 2B L S

Function Available: 1 6 5 4 3 12 7 18 19 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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KM12025 SERIES Y.S.TECH

120x120x25mm

- **Airflow: 61.2 CFM**
- **Static Pressure: 2.3 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 118 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
KM12025012BL	2B	12	7~13.2	2000	61.2	2.3	180	2.16	80000	1	31.5
KM12025012BL(1)	2B		7~13.2	1200	38.4	1.4	70	0.84	80000	2	17.5
KM12025012LL	L		7~13.2	2000	61.2	2.3	65	0.78	50000	2	31.5
KM12025012LL(1)	L		7~13.2	1200	38.4	.78	70	0.78	50000	3	17.5
KM12025012SL	S		7~13.2	2000	61.2	2.3	180	2.16	30000	1	31.5
KM12025012SL(1)	S		7~13.2	1200	38.4	1.4	70	0.84	30000	2	17.5
KM12025012SL(0)	S		7~13.2	800	25.6	1.0	40	0.48	30000	3	16.5

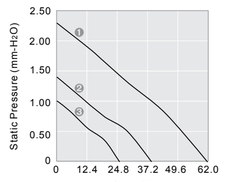
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

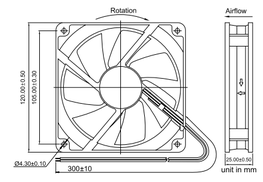
Bearing System Available: 2B L S

Function Available: 1 6 5 4 3 12 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department.
Visit Y.S. TECH web site at *http://www.ystechusa.com/* for updated information. Customized Specifications are designed accordingly.

YW12025 SERIES

120x120x25mm

- Airflow: 73.0~208.4 CFM
- Static Pressure: 2.6~18.0mm-H2O
- Blade / Housing:
  Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 160 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW12025012BL	2B	12	7~13.2	1800	73.0	2.6	180	2.16	80000	8	34.0
YW12025012BM	2B		7~13.2	2200	87.8	3.9	290	3.48	80000	7	40.5
YW12025012BH	2B		7~13.2	2600	106.1	5.8	460	5.52	75000	6	44.0
YW12025012BS	2B		7~13.2	3000	123.1	7.6	570	6.84	65000	5	49.0
YW12025012BSS	2B		7~13.2	3500	144.6	8.4	650	7.80	65000	4	51.5
YW12025012BD	2B		7~13.2	4100	169.5	12.0	950	11.40	65000	3	55.5
YW12025012BJ	2B		7~13.2	4600	190.2	16.2	1300	15.60	65000	2	57.5
YW12025012BV	2B		7~13.2	5200	208.4	18.0	1900	22.80	60000	1	59.5
YW12025024BL	2B	24	12~26.4	1800	73.0	2.6	180	2.40	80000	8	34.0
YW12025024BM	2B		12~26.4	2200	87.8	3.9	290	3.84	80000	7	40.5
YW12025024BH	2B		12~26.4	2600	106.1	5.8	460	5.52	75000	6	44.0
YW12025024BS	2B		12~26.4	3000	123.1	7.6	570	6.84	65000	5	49.0
YW12025024BSS	2B		12~26.4	3500	144.6	8.4	650	7.80	65000	4	51.5
YW12025024BD	2B		12~26.4	4100	169.5	12.0	950	11.40	65000	3	55.5
YW12025024BJ	2B		12~26.4	4600	190.2	16.2	1300	15.60	65000	2	57.5
YW12025024BV	2B		12~26.4	5200	208.4	18.0	1900	22.80	60000	1	59.5
YW12025048BL	2B	48	24~56.0	1800	73.0	2.6	180	6.84	65000	5	49.0
YW12025048BS	2B		24~56.0	2200	87.8	2.6	290	3.84	80000	8	40.5
YW12025048BM	2B		24~56.0	2600	106.1	3.9	460	5.52	80000	6	44.0
YW12025048BH	2B		24~56.0	3000	123.1	5.8	570	6.84	65000	5	49.0
YW12025048BSS	2B		24~56.0	3500	144.6	8.4	650	7.80	65000	4	51.5
YW12025048BD	2B		24~56.0	4100	169.5	12.0	950	11.40	65000	3	55.5
YW12025048BJ	2B		24~56.0	4600	190.2	16.2	1300	15.60	65000	2	57.5
YW12025048BV	2B		24~56.0	5200	208.4	18.0	1900	22.80	60000	1	59.5

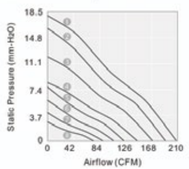
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

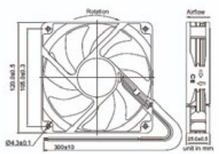
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



YW12032 SERIES

120x120x32mm

- Airflow: 87.7~234.3 CFM
- Static Pressure: 4.2~24.4 mm-H2O
- Blade / Housing:
  Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 219 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW12032012BL	2B	12	7~13.2	2100	87.7	4.2	330	3.96	80000	9	39.0
YW12032012BM	2B		7~13.2	2500	99.3	6.1	450	5.40	80000	8	42.5
YW12032012BH	2B		7~13.2	2900	115.0	8.0	580	6.96	75000	7	47.5
YW12032012BS	2B		7~13.2	3300	137.3	9.4	840	10.08	65000	6	49.0
YW12032012BSS	2B		7~13.2	3500	157.7	11.8	700	8.40	65000	5	55.0
YW12032012BD	2B		7~13.2	4100	184.8	13.8	1100	13.20	65000	4	58.5
YW12032012BJ	2B		7~13.2	4600	207.3	18.2	1600	19.20	65000	3	61.0
YW12032012BV	2B		7~13.2	4900	220.8	21.2	2200	26.40	60000	2	62.0
YW12032024BL	2B	24	12~26.4	2100	87.7	4.2	150	3.60	80000	9	39.0
YW12032024BM	2B		12~26.4	2500	99.3	6.1	200	4.80	80000	8	42.5
YW12032024BH	2B		12~26.4	2900	115.0	8.0	290	6.96	75000	7	47.5
YW12032024BSS	2B		12~26.4	3500	157.7	11.8	360	8.64	65000	5	55.0
YW12032024BJ	2B		12~26.4	4600	207.3	18.2	750	18.00	65000	3	61.0
YW12032024BV	2B		12~26.4	5200	234.3	24.4	1000	24.00	60000	1	63.5
YW12032048BL	2B	48	24~56.0	2100	83.3	4.3	90	4.32	80000	9	39.5
YW12032048BM	2B		24~56.0	2500	99.3	6.1	130	6.24	80000	8	42.5
YW12032048BH	2B		24~56.0	2900	115.0	8.0	190	9.12	75000	7	47.0
YW12032048BSS	2B		24~56.0	3500	157.7	11.8	210	10.08	65000	5	55.0
YW12032048BJ	2B		24~56.0	4600	207.3	18.2	450	21.60	65000	3	61.0
YW12032048BV	2B		24~56.0	5200	234.3	24.4	600	28.80	65000	1	

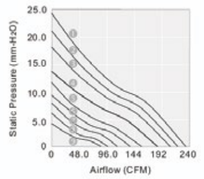
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

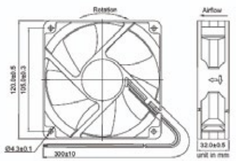
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



YW12038 SERIES

120x120x38mm

- Airflow: 89.5~212.6CFM
- Static Pressure: 3.9~19.8 mm-H2O
- Blade / Housing:
  Plastic Material UL 94V-0 P.B.T.
- Lead Wire: UL1007 #22 AWG
- Weight: 220 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
YW12038012BL	2B	12	7~13.2	2000	89.5	3.9	320	3.84	80000	7	36.0
YW12038012BM	2B		7~13.2	2400	107.0	5.8	400	4.80	80000	6	41.0
YW12038012BH	2B		7~13.2	2800	125.5	7.6	660	7.92	75000	5	45.0
YW12038012BS	2B		7~13.2	3000	135.0	8.6	830	9.96	65000	4	47.0
YW12038012BSS	2B		7~13.2	3500	161.1	10.4	750	9.00	65000	3	55.5
YW12038012BD	2B		7~13.2	4100	189.2	15.1	1250	15.00	65000	2	59.0
YW12038012BJ	2B		7~13.2	4600	212.6	19.8	1750	21.00	65000	1	61.5
YW12038024BL	2B	24	12~26.4	2000	89.5	3.9	150	3.60	80000	7	36.0
YW12038024BM	2B		12~26.4	2400	107.0	5.8	250	6.00	80000	6	41.0
YW12038024BH	2B		12~26.4	2800	125.5	7.6	310	7.44	75000	5	45.0
YW12038024BS	2B		12~26.4	3000	135.0	8.6	410	9.84	65000	4	47.0
YW12038024BSS	2B		12~26.4	3500	161.1	10.4	410	9.84	65000	3	55.5
YW12038024BD	2B		12~26.4	4100	189.2	15.1	620	14.88	65000	2	59.0
YW12038024BJ	2B		12~26.4	4600	212.60	19.8	860	20.64	65000	1	61.5
YW12038048BL	2B	48	24~56.0	2000	89.5	3.9	120	5.76	80000	7	36.0
YW12038048BM	2B		24~56.0	2400	107.0	5.8	140	6.72	80000	6	41.0
YW12038048BH	2B		24~56.0	2800	125.5	7.6	180	8.64	75000	5	45.0
YW12038048BS	2B		24~56.0	3000	135.0	8.6	210	10.08	65000	4	47.0
YW12038048BSS	2B		24~56.0	3500	161.1	10.4	240	11.52	65000	3	55.5
YW12038048BD	2B		24~56.0	4100	189.2	15.1	340	16.32	65000	2	59.0
YW12038048BJ	2B		24~56.0	4600	212.60	19.8	470	22.56	65000	1	61.5

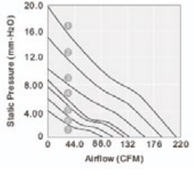
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

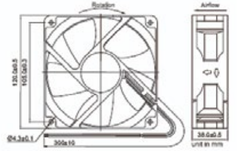
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



XYW12038-R SERIES

120x120x38mm

- Airflow: 88.0~142.0 CFM
- Static Pressure: 8.4~20.0 mm-H2O
- Blade / Housing:
  Plastic Material UL 94V-0 P.B.T.
  Frame:Plastic UL 94V-0 P.B.T
- Lead Wire: UL1007 #22 AWG Weight:
- 396.8 g

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW12038012BL-R	2B	12	7~13.2	2800	88.0	8.4	270	3.24	80000	5	45.5
XYW12038012BM-R	2B		7~13.2	3200	100.9	10.5	360	4.32	80000	4	47.0
XYW12038012BH-R	2B		7~13.2	3600	113.9	13.0	520	6.24	75000	3	51.0
XYW12038012BS-R	2B		7~13.2	4000	127.0	16.0	700	8.40	65000	2	55.0
XYW12038012BSS-R	2B		7~13.2	4500	142.0	20.0	950	11.40	65000	1	58.5
XYW12038024BL-R	2B	24	12~26.4	2800	88.0	8.4	145	3.48	80000	5	45.5
XYW12038024BM-R	2B		12~26.4	3200	100.9	10.5	195	4.68	80000	4	47.0
XYW12038024BH-R	2B		12~26.4	3600	113.9	13.0	270	6.48	75000	3	51.0
XYW12038024BS-R	2B		12~26.4	4000	127.0	16.0	370	8.88	65000	2	55.0
XYW12038024BSS-R	2B		12~26.4	4500	142.0	20.0	520	12.48	65000	1	58.5
XYW12038048BL-R	2B	48	24~56.0	2800	88.0	8.4	100	4.80	80000	5	45.5
XYW12038048BM-R	2B		24~56.0	3200	100.9	10.5	130	6.24	80000	4	47.0
XYW12038048BH-R	2B		24~56.0	3600	113.9	13.0	170	8.16	75000	3	51.0
XYW12038048BS-R	2B		24~56.0	4000	127.0	16.0	200	9.60	65000	2	55.0
XYW12038048BSS-R	2B		24~56.0	4500	142.0	20.0	270	12.96	65000	1	58.5

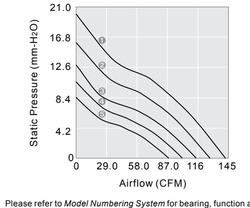
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

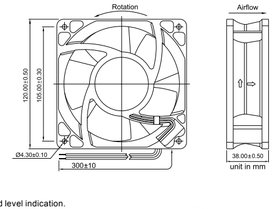
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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XYW12038-S SERIES

Y.S. TECH

120x120x38mm

- **Airflow: 149.7~282.9 CFM**
- **Static Pressure: 18.3~42.2 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 252.5 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW12038012BL-S	2B	12	7~13.2	5000	149.7	18.3	600	7.20	60000	5	61.8
XYW12038012BM-S	2B		7~13.2	6000	182.2	26.6	900	10.80	60000	4	63.5
XYW12038012BH-S	2B		7~13.2	7000	203.2	31.1	1150	13.80	60000	3	64.7
XYW12038012BS-S	2B		7~13.2	8500	256.5	39.9	2200	26.40	60000	2	69.1
XYW12038012BSS-S	2B		7~13.2	9500	282.9	42.2	3200	38.40	60000	1	71.2
XYW12038024BL-S	2B	24	11~28.0	5000	149.7	18.3	300	7.20	60000	5	61.8
XYW12038024BM-S	2B		11~28.0	6000	182.2	26.6	450	10.80	60000	4	63.5
XYW12038024BH-S	2B		11~28.0	7000	203.2	31.1	580	13.92	60000	3	64.7
XYW12038024BS-S	2B		11~28.0	8500	256.5	39.9	1100	26.40	60000	2	69.1
XYW12038024BSS-S	2B		11~28.0	9500	282.9	42.2	1600	38.40	60000	1	71.2
XYW12038048BL-S	2B	48	35~56.0	5000	149.7	18.3	170	8.16	60000	5	61.8
XYW12038048BM-S	2B		35~56.0	6000	182.2	26.6	230	11.04	60000	4	63.5
XYW12038048BH-S	2B		35~56.0	7000	203.2	31.1	300	14.40	60000	3	64.7
XYW12038048BS-S	2B		35~56.0	8500	256.5	39.9	600	28.80	60000	2	69.1
XYW12038048BSS-S	2B		35~56.0	9500	282.9	42.2	800	38.40	60000	1	71.2

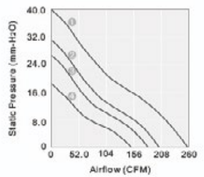
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

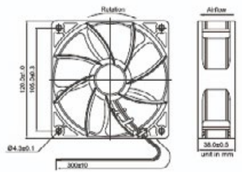
Bearing System Available
2B L S

Function Available
1 6 5 4 3 2 7 8 9 10 11 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department.
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XYW12038-P SERIES

Y.S. TECH

120x120x38mm

- **Airflow: 194.4~315.3 CFM**
- **Static Pressure: 31.1~50.5 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #22 AWG**
- **Weight: 400 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW12038012BL-P	2B	12	7~13.2	4000	194.4	31.1	1900	22.80	80000	5	64.0
XYW12038012BM-P	2B		7~13.2	4400	213.7	34.2	2300	27.60	80000	4	66.0
XYW12038012BH-P	2B		7~13.2	5100	247.6	39.6	3100	37.20	65000	3	69.5
XYW12038024BL-P	2B	24	15~30.0	4000	194.4	31.1	850	20.40	80000	5	64.0
XYW12038024BM-P	2B		15~30.0	4400	213.7	34.2	1000	24.00	80000	4	66.0
XYW12038024BH-P	2B		15~30.0	5100	247.6	39.6	1600	38.40	65000	3	69.5
XYW12038024BS-P	2B		15~30.0	5800	281.5	45.1	2400	57.60	65000	2	72.5
XYW12038024BSS-P	2B		15~30.0	6500	315.3	50.7	3200	76.80	65000	1	75.0
XYW12038048BL-P	2B	48	35~72.0	4000	194.4	31.1	460	22.08	80000	5	64.0
XYW12038048BM-P	2B		35~72.0	4400	213.7	34.2	550	26.40	80000	4	66.0
XYW12038048BH-P	2B		35~72.0	5100	247.6	39.6	750	36.00	75000	3	69.5
XYW12038048BS-P	2B		35~72.0	5800	281.5	45.1	1100	52.80	65000	2	72.5
XYW12038048BSS-P	2B		35~72.0	6500	315.3	50.5	1550	74.40	65000	1	74.5

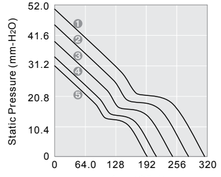
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

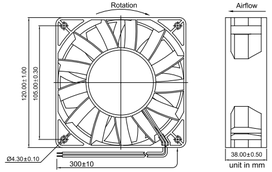
Bearing System Available
2B L S

Function Available
1 6 5 4 3 2 7 8 9 10 11 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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XYW17251 SERIES

Y.S. TECH

172x150x51mm

- **Airflow: 247.5~464.0 CFM**
- **Static Pressure: 16.7~52.0 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.P.O.
  Frame:Die-Casting Aluminum
- **Lead Wire: UL1007 #22 AWG**
- **Weight: 1080 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
XYW17251012BL	2B	12	7~13.2	3000	247.5	16.7	1800	21.60	80000	6	57.2
XYW17251012BM	2B		7~13.2	3500	294.4	23.7	2800	33.60	80000	5	62.1
XYW17251024BL	2B	24	12~26.4	3000	247.5	16.7	850	20.40	80000	6	57.2
XYW17251024BM	2B		12~26.4	3500	294.4	23.7	1250	30.00	80000	5	62.1
XYW17251024BH	2B		12~26.4	4000	335.4	29.8	1850	40.40	75000	4	63.0
XYW17251024BS	2B		12~26.4	4500	379.7	37.1	2700	64.80	65000	3	67.3
XYW17251048BL	2B	48	24~56.0	3000	247.5	16.7	440	21.12	80000	6	57.2
XYW17251048BM	2B		24~56.0	3500	294.4	23.7	650	31.20	80000	5	62.1
XYW17251048BH	2B		24~56.0	4000	335.4	29.8	950	45.60	75000	4	63.0
XYW17251048BS	2B		24~56.0	4500	379.7	37.1	1250	60.00	65000	3	67.3
XYW17251048BSE	2B		24~56.0	5000	419.9	46.3	1650	79.20	65000	2	71.1
XYW17251048BSS	2B		24~56.0	5500	464.0	52.0	2400	115.2	65000	1	73.1

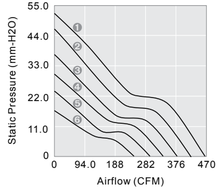
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

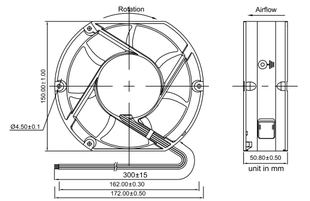
Bearing System Available
2B L S

Function Available
1 6 5 4 3 2 7 8 9 10 11 12 13 14

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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BW05115 SERIES

Y.S. TECH

50x50x15mm

- **Airflow: 4.2~6.3 CFM**
- **Static Pressure: 12.0~26.2 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 28 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
BW05115005BL	2B	05	4~5.5	4500	3.9	12.0	170	0.85	80000	4	37.5
BW05115005BM	2B		4~5.5	5500	4.7	16.2	350	1.75	80000	3	42.0
BW05115012BL	2B	12	7~13.2	4500	3.9	12.0	95	1.14	80000	4	37.5
BW05115012BM	2B		7~13.2	5500	4.7	16.2	160	1.92	80000	3	42.0
BW05115012BH	2B		7~13.2	6500	5.5	20.9	230	2.76	80000	2	45.5
BW05115012BS	2B		7~13.2	7500	6.3	26.2	290	3.48	75000	1	48.5
BW05115012LL	L		7~13.2	4500	3.9	12.0	100	1.20	65000	4	37.5
BW05115012LM	L		7~13.2	5500	4.7	16.2	150	1.80	50000	3	42.0
BW05115012LH	L		7~13.2	6500	5.5	20.9	220	2.64	50000	2	45.5
BW05115012LS	L		7~13.2	7500	6.3	26.2	290	3.48	50000	1	48.5
BW05115024BL	2B	24	12~26.4	4500	3.9	12.0	60	1.44	80000	4	37.5
BW05115024BM	2B		12~26.4	5500	4.7	16.2	85	2.04	80000	3	42.0
BW05115024BH	2B		12~26.4	6500	5.5	20.9	120	2.88	75000	2	45.5
BW05115024BS	2B		12~26.4	7500	6.3	26.2	180	4.32	65000	1	48.5

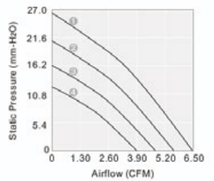
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

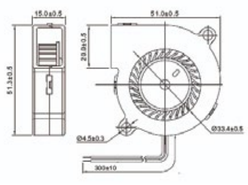
Bearing System Available
2B L S

Function Available
1 6 5 4 3 2 7 8 9 10 11 12 13 14

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



Please refer to *Model Numbering System* for bearing, function and speed level indication.
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BW06018 SERIES

60x60x18mm

- **Airflow: 6.7~8.2 CFM**
- **Static Pressure: 17.6~22.0 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 41 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
BW06018012BL	2B	12	7~13.2	4200	6.7	17.6	140	1.68	80000	3	38.0
BW06018012BM	2B		7~13.2	4800	7.7	21.2	180	2.16	80000	2	43.5
BW06018012BH	2B		7~13.2	5400	8.2	22.0	280	3.36	75000	1	49.0

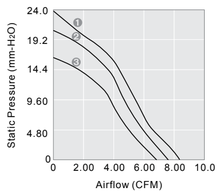
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

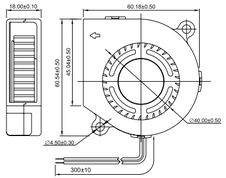
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 1 2 1 7 1 8 1 9 1 10 1 11 1 4 1 12 1 3

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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BW06025 SERIES

60x60x25mm

- **Airflow: 6.5~10.6 CFM**
- **Static Pressure: 6.1~15.3 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 63.6 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
BW06025012BL	2B	12	7~13.2	3000	6.5	6.1	110	1.32	80000	3	31.5
BW06025012BM	2B		7~13.2	3700	8.1	8.4	180	2.16	80000	2	35.8
BW06025012BH	2B		7~13.2	4500	10.6	15.3	230	2.76	75000	1	41.0
BW06025024BL	2B	24	12~26.4	3000	6.5	6.1	45	1.08	80000	3	31.5
BW06025024BM	2B		12~26.4	3700	8.1	8.4	70	1.68	80000	2	35.8
BW06025024BH	2B		12~26.4	4500	10.6	15.3	110	2.64	75000	1	41.5

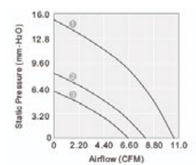
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

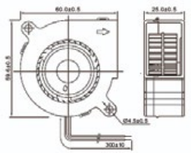
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 1 2 1 7 1 8 1 9 1 10 1 11 1 4 1 12 1 3

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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BW08030 SERIES

75x75x30mm

- **Airflow: 9.7~16.5 CFM**
- **Static Pressure: 5.5~20.3 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #26 AWG**
- **Weight: 88.9 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
BW08030012BL	2B	12	7~13.2	2400	9.7	5.5	110	1.32	80000	4	37.0
BW08030012BM	2B		7~13.2	3000	12.2	10.3	190	2.28	80000	3	42.0
BW08030012BH	2B		7~13.2	3400	14.0	13.7	270	3.24	75000	2	44.5
BW08030012BS	2B		7~13.2	4000	16.5	20.3	360	4.32	65000	1	48.0
BW08030024BL	2B	24	12~26.4	2400	9.7	5.5	60	1.44	80000	4	37.0
BW08030024BM	2B		12~26.4	3000	12.2	10.3	110	2.64	80000	3	42.0
BW08030024BH	2B		12~26.4	3400	14.0	13.7	150	3.60	75000	2	44.5
BW08030024BS	2B		12~26.4	4000	16.5	20.3	200	4.80	65000	1	48.0

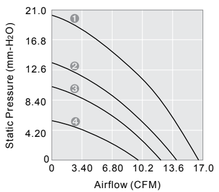
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

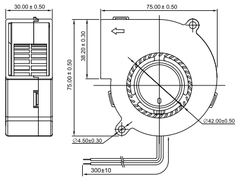
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 1 2 1 7 1 8 1 9 1 10 1 11 1 4 1 12 1 3

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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BW09733 SERIES

97x97x33mm

- **Airflow: 25.6~32.4 CFM**
- **Static Pressure: 22.1~28.1 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #24 AWG**
- **Weight: 156.7 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
BW09733012BL	2B	12	7~13.2	2600	25.6	22.1	400	4.80	80000	3	40.0
BW09733012BM	2B		7~13.2	2900	28.5	24.7	480	5.76	80000	2	42.5
BW09733012BH	2B		7~13.2	3300	32.4	28.1	740	8.88	75000	1	48.5
BW09733012BS	2B		7~13.2	3700	34.2	29.4	850	10.2	65000		53.0
BW09733012BJ	2B		7~13.2	4500	42.6	56.0	1400	16.8	65000		58.0
BW09733024BL	2B	24	12~26.4	2600	25.6	22.1	210	5.04	80000	3	40.0
BW09733024BM	2B		12~26.4	2900	28.5	24.7	280	6.72	80000	2	42.5
BW09733024BH	2B		12~26.4	3300	32.4	28.1	420	10.08	75000	1	48.5
BW09733024BS	2B		12~26.4	3700	34.2	29.4	400	9.6	65000		53.0
BW09733024BJ	2B		12~26.4	4500	42.6	56.0	680	16.32	65000		58.0
BW09733024BV	2B		12~26.4	5300	48.9	81.5	1300	31.2	65000		62.0

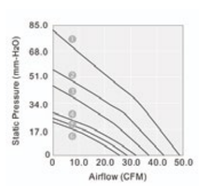
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available: 05 12 24 48

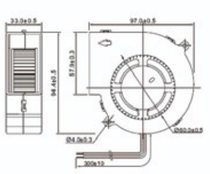
Bearing System Available: 2B L S

Function Available: 1 1 6 5 4 3 1 2 1 7 1 8 1 9 1 10 1 11 1 4 1 12 1 3

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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BW12032 SERIES

Y.S. TECH

120x120x32mm

- **Airflow: 23.0~47.5 CFM**
- **Static Pressure: 8.0~41.7 mm-H2O**
- **Blade / Housing:**
  Plastic Material UL 94V-0 P.B.T.
- **Lead Wire: UL1007 #22 AWG**
- **Weight: 258.5 g**

Model No.	Bearing	Rated Voltage	Operating Voltage Range	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VDC	VDC	RPM	CFM	mm-H2O	mA	W	Hour		dB(A)
BW12032012BL	2B	12	7~13.2	1700	23.0	8.0	150	1.80	80000	5	42.5
BW12032012BM	2B	12	7~13.2	2100	29.5	13.8	250	3.00	80000	4	49.5
BW12032012BH	2B	12	7~13.2	2600	37.2	24.7	700	8.40	75000	3	57.0
BW12032012BS	2B	12	7~13.2	2900	41.4	29.0	900	10.80	65000	2	59.0
BW12032012BU	2B	12	7~13.2	3500	47.5	41.7	1500	18.00	65000	1	62.0
BW1203224BL	2B	24	12~26.4	1700	23.0	8.0	120	2.88	80000	5	42.5
BW1203224BM	2B	24	12~26.4	2100	29.5	13.8	180	4.32	80000	4	49.5
BW1203224BH	2B	24	12~26.4	2600	37.2	24.7	260	6.24	75000	3	57.0
BW1203224BS	2B	24	12~26.4	2900	41.4	29.0	450	10.80	65000	2	59.0
BW1203224BU	2B	24	12~26.4	3500	47.5	41.7	830	19.92	65000	1	62.0

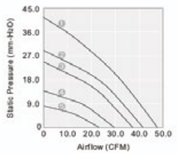
2B: 2-ball bearing L: sintetico bearing S: sleeve bearing

Voltage Available
05 12 24 48

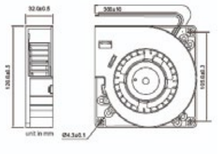
Bearing System Available
2B L S

Function Available
11 6 5 4 3 2 7 8 9 10 11 14 12 13

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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ADT8025 SERIES

Y.S. TECH

80x80x25mm

- **Airflow: 38.6~55.1 CFM**
- **Static Pressure: 3.9~6.6 mm-H2O**
- **Blade: Plastic UL 94V-0 P.B.T.**
  Frame:Plastic UL94V-0 P.B.T.
- **Weight: 138 / 108 g**

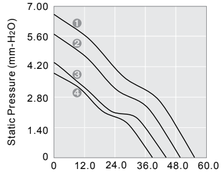
Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour		dB(A)
ADT08025115BL	2B	110	50/60	2800/3200	38.6/44.1	3.9/4.4	0.11/0.13	1.90/2.40	50000	4/3	34.0/38.5
ADT08025115BM	2B		50/60	3200/3600	44.1/49.6	4.4/5.7	0.15/0.17	2.80/3.60	50000	3/2	38.5/42.0
ADT08025115BH	2B		50/60	3600/4000	49.6/55.1	5.7/6.6	0.16/0.19	3.40/4.30	50000	2/1	42.0/45.5
ADT08025220BL	2B	220	50/60	2800/3200	38.6/44.1	3.9/4.4	0.11/0.13	2.80/3.40	50000	4/3	34.0/38.5
ADT08025220BM	2B		50/60	3200/3600	44.1/49.6	4.4/5.7	0.14/0.17	3.80/4.80	50000	3/2	38.5/42.0
ADT08025220BH	2B		50/60	3600/4000	49.6/55.1	5.7/6.6	0.15/0.18	4.30/5.30	50000	2/1	42.0/45.5

2B: 2-ball bearing S: sleeve bearing

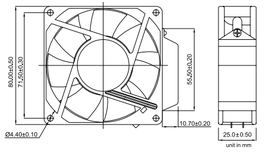
Voltage Available
110 220

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT08025 SERIES

Y.S. TECH

80x80x26mm

- **Airflow: 14.5~18.3 CFM**
- **Static Pressure: 3.31~5.16 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 260 g**

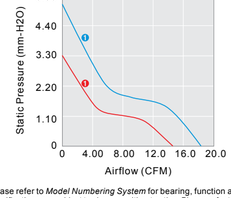
Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour		dB(A)
KT08025115SH	S	115	50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	20000	❶/❷	28.2/35.0
KW08025115SH	S		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	20000	❶/❷	28.2/35.0
KT08025115BH	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	60000	❶/❷	28.2/35.0
KW08025115BH	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.17/0.15	15.0/13.0	60000	❶/❷	28.2/35.0
KT08025220SH	S	230	50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	20000	❶/❷	28.2/35.0
KW08025220SH	S		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	20000	❶/❷	28.2/35.0
KT08025220BH	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	60000	❶/❷	28.2/35.0
KW08025220BH	2B		50/60	2500/3000	14.5/18.3	3.31/5.16	0.08/0.07	15.0/13.0	60000	❶/❷	28.2/35.0

2B: 2-ball bearing S: sleeve bearing

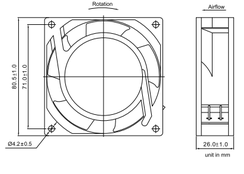
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT08038 SERIES

Y.S. TECH

80x80x38mm

- **Airflow: 16.7~24.3 CFM**
- **Static Pressure: 2.88~6.29 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 370 g**

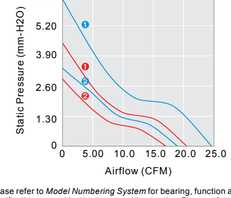
Model No.	Bearing	Rated Voltage	Freq	Speed	Max. Airflow	Max. Static Pressure	Current	Power Consumption	Life at 40°C L10	P-Q Curve	Noise Level
		VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour		dB(A)
KT08038115SH	S	115	50/60	2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	20000	❶/❷	29.9/37.2
KW08038115SH	S		50/60	2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	20000	❶/❷	29.9/37.2
KT08038115BM	2B		50/60	2100/2300	16.7/18.8	2.88/3.35	0.07/0.06	11.0/ 9.0	60000	❶/❷	26.2/29.2
KW08038115BM	2B		50/60	2100/2300	16.7/18.8	2.88/3.35	0.07/0.06	11.0/ 9.0	60000	❶/❷	26.2/29.2
KT08038115BH	2B		50/60	2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	60000	❶/❷	29.9/37.2
KW08038115BH	2B		50/60	2450/3000	20.4/24.3	4.45/6.29	0.12/0.10	14.0/12.0	60000	❶/❷	29.9/37.2
KT08038220SH	S	230	50/60	2450/3000	20.4/24.3	4.45/6.29	0.06/0.05	14.0/12.0	20000	❶/❷	29.9/37.2
KW08038220SH	S		50/60	2450/3000	20.4/24.3	4.45/6.29	0.06/0.05	14.0/12.0	20000	❶/❷	29.9/37.2
KT08038220BM	2B		50/60	2100/2300	16.7/18.8	2.88/3.35	0.05/0.04	11.0/ 9.0	60000	❶/❷	26.2/29.2
KW08038220BM	2B		50/60	2100/2300	16.7/18.8	2.88/3.35	0.05/0.04	11.0/ 9.0	60000	❶/❷	26.2/29.2
KT08038220BH	2B		50/60	2450/3000	20.4/24.3	4.45/6.29	0.06/0.05	14.0/12.0	60000	❶/❷	29.9/37.2
KW08038220BH	2B		50/60	2450/3000	20.4/24.3	4.45/6.29	0.06/0.05	14.0/12.0	60000	❶/❷	29.9/37.2

2B: 2-ball bearing S: sleeve bearing

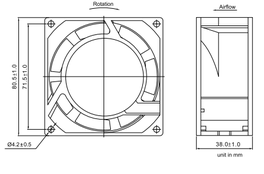
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT09225 SERIES Y.S. TECH

92x92x25.5mm

- **Airflow: 17.3~32.0 CFM**
- **Static Pressure:1.39~5.70 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 260 g**

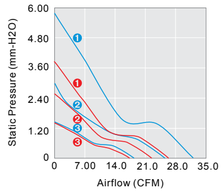
Model No.	Bearing	VAC	Hz	Rated Voltage	Freq	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT09225115SH	S	115	50/60		2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	20000	❶/❶	31.7/39.1
KW09225115SH	S		50/60		2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	20000	❶/❶	31.7/39.1
KT09225115BL	2B		50/60		1600/1800	17.3/18.3	1.39/1.42	0.07/0.06	7.0/6.0	60000	❷/❷	26.5/27.0
KW09225115BL	2B		50/60		1600/1800	17.3/18.3	1.39/1.42	0.07/0.06	7.0/6.0	60000	❷/❷	26.5/27.0
KT09225115BM	2B		50/60		2100/2300	22/25	2.50/2.90	0.09/0.08	10.0/9.0	60000	❷/❷	28.6/32.0
KW09225115BM	2B		50/60		2100/2300	22/25	2.50/2.90	0.09/0.08	10.0/9.0	60000	❷/❷	28.6/32.0
KT09225115BH	2B		50/60		2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	60000	❶/❶	31.7/39.1
KW09225115BH	2B		50/60		2500/3000	26/32	3.80/5.70	0.18/0.16	15.0/13.0	60000	❶/❶	31.7/39.1
KT09225220SH	S	230	50/60		2500/3000	26/32	3.80/5.70	0.08/0.07	15.0/13.0	20000	❶/❶	31.7/39.1
KW09225220SH	S		50/60		2500/3000	26/32	3.80/5.70	0.08/0.07	15.0/13.0	20000	❶/❶	31.7/39.1
KT09225220BL	2B		50/60		1600/1800	17.3/18.3	1.39/1.42	0.05/0.04	7.0/6.0	60000	❷/❷	26.5/27.0
KW09225220BL	2B		50/60		1600/1800	17.3/18.3	1.39/1.42	0.05/0.04	7.0/6.0	60000	❷/❷	26.5/27.0
KT09225220BM	2B		50/60		2100/2300	22/25	2.50/2.90	0.09/0.08	10.0/9.0	60000	❷/❷	28.6/32.0
KW09225220BM	2B		50/60		2100/2300	22/25	2.50/2.90	0.09/0.08	10.0/9.0	60000	❷/❷	28.6/32.0
KT09225220BH	2B		50/60		2500/3000	26/32	3.80/5.70	0.08/0.07	15.0/13.0	60000	❶/❶	31.7/39.1
KW09225220BH	2B		50/60		2500/3000	26/32	3.80/5.70	0.08/0.07	15.0/13.0	60000	❶/❶	31.7/39.1

2B: 2-ball bearing S: sleeve bearing

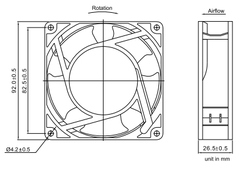
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT09238 SERIES Y.S. TECH

92x92x38.0mm

- **Airflow: 34.0~47.0 CFM**
- **Static Pressure: 2.20~6.00 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 450 g**

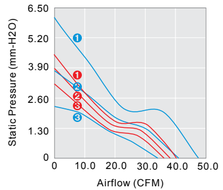
Model No.	Bearing	VAC	Hz	Rated Voltage	Freq	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT09238115SH	S	115	50/60		2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	20000	❶/❶	36.0/41.0
KW09238115SH	S		50/60		2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	20000	❶/❶	36.0/41.0
KT09238115BL	2B		50/60		1900/1800	36/34	3.20/2.20	0.05/0.04	7.0/5.0	60000	❷/❷	30.2/27.8
KW09238115BL	2B		50/60		1900/1800	36/34	3.20/2.20	0.05/0.04	7.0/5.0	60000	❷/❷	30.2/27.8
KT09238115BM	2B		50/60		2200/2400	38/40	3.88/3.78	0.07/0.06	11.0/9.0	60000	❷/❷	32.9/35.3
KW09238115BM	2B		50/60		2200/2400	38/40	3.88/3.78	0.07/0.06	11.0/9.0	60000	❷/❷	32.9/35.3
KT09238115BH	2B		50/60		2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	60000	❶/❶	36.0/41.0
KW09238115BH	2B		50/60		2550/3100	40/47	4.50/6.00	0.12/0.11	14.0/12.0	60000	❶/❶	36.0/41.0
KT09238220SH	S	230	50/60		2550/3100	40/47	4.50/6.00	0.06/0.05	14.0/12.0	60000	❶/❶	36.0/41.0
KW09238220SH	S		50/60		2550/3100	40/47	4.50/6.00	0.06/0.05	14.0/12.0	60000	❶/❶	36.0/41.0
KT09238220BH	2B		50/60		2550/3100	40/47	4.50/6.00	0.06/0.05	14.0/12.0	60000	❶/❶	36.0/41.0
KW09238220BH	2B		50/60		2550/3100	40/47	4.50/6.00	0.06/0.05	14.0/12.0	60000	❶/❶	36.0/41.0

2B: 2-ball bearing S: sleeve bearing

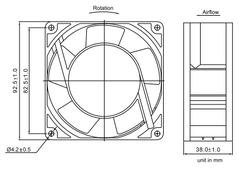
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT12025 SERIES Y.S. TECH

120x120x25.5mm

- **Airflow: 43.2~67.27 CFM**
- **Static Pressure: 1.5~6.2 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 390 g**

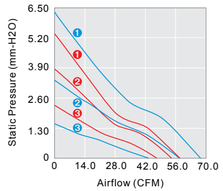
Model No.	Bearing	VAC	Hz	Rated Voltage	Freq	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT12025115SH	S	115	50/60		2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	❶/❶	44.5/48.2
KW12025115SH	S		50/60		2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	❶/❶	44.5/48.2
KT12025115BL	2B		50/60		1800/1600	47.1/43.2	2.30/1.50	0.06/0.05	8.0/6.0	60000	❷/❷	36.7/35.0
KW12025115BL	2B		50/60		1800/1600	47.1/43.2	2.30/1.50	0.06/0.05	8.0/6.0	60000	❷/❷	36.7/35.0
KT12025115BM	2B		50/60		2200/2300	53.8/57.8	3.99/3.77	0.09/0.08	12.0/10.0	60000	❷/❷	43.0/45.0
KW12025115BM	2B		50/60		2200/2300	53.8/57.8	3.99/3.77	0.09/0.08	12.0/10.0	60000	❷/❷	43.0/45.0
KT12025115BH	2B		50/60		2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	❶/❶	44.5/48.2
KW12025115BH	2B		50/60		2400/2900	57.5/67.3	5.30/6.20	0.25/0.20	17.0/15.0	20000	❶/❶	44.5/48.2
KT12025220SH	S	230	50/60		2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	❶/❶	44.5/48.2
KW12025220SH	S		50/60		2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	❶/❶	44.5/48.2
KT12025220BL	2B		50/60		1800/1600	47.1/43.2	2.30/1.50	0.05/0.04	8.0/6.0	60000	❷/❷	36.7/35.0
KW12025220BL	2B		50/60		1800/1600	47.1/43.2	2.30/1.50	0.05/0.04	8.0/6.0	60000	❷/❷	36.7/35.0
KT12025220BM	2B		50/60		2200/2300	53.8/57.8	3.99/3.77	0.06/0.05	12.0/10.0	60000	❷/❷	43.0/45.0
KW12025220BM	2B		50/60		2200/2300	53.8/57.8	3.99/3.77	0.06/0.05	12.0/10.0	60000	❷/❷	43.0/45.0
KT12025220BH	2B		50/60		2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	❶/❶	44.5/48.2
KW12025220BH	2B		50/60		2400/2900	57.5/67.3	5.30/6.20	0.09/0.07	17.0/15.0	20000	❶/❶	44.5/48.2

2B: 2-ball bearing S: sleeve bearing

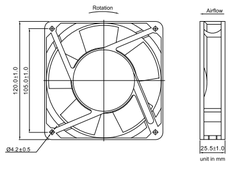
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT12038 SERIES Y.S. TECH

120x120x38mm

- **Airflow: 65.0~108.0 CFM**
- **Static Pressure: 2.04~8.80 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 550 g**

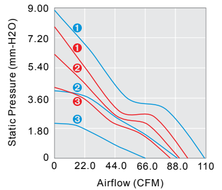
Model No.	Bearing	VAC	Hz	Rated Voltage	Freq	Speed RPM	Max. Airflow CFM	Max. Static Pressure mm-H2O	Current A	Power Consumption W	Life at 40°C L10 Hour	P-Q Curve	Noise Level dB(A)
KT12038115SH	S	115	50/60		2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	20000	❶/❶	45.0/50.0
KW12038115SH	S		50/60		2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	20000	❶/❶	45.0/50.0
KT12038115BL	2B		50/60		1800/1600	83/65	4.20/2.04	0.10/0.10	9.0/8.0	60000	❷/❷	41.1/32.5
KW12038115BL	2B		50/60		1800/1600	83/65	4.20/2.04	0.10/0.10	9.0/8.0	60000	❷/❷	41.1/32.5
KT12038115BM	2B		50/60		2100/2300	90/88	6.20/4.00	0.14/0.13	12.0/11.0	60000	❷/❷	41.0/43.0
KW12038115BM	2B		50/60		2100/2300	90/88	6.20/4.00	0.14/0.13	12.0/11.0	60000	❷/❷	41.0/43.0
KT12038115BH	2B		50/60		2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	60000	❶/❶	45.0/50.0
KW12038115BH	2B		50/60		2500/3000	96/108	7.80/8.80	0.25/0.21	17.0/15.0	60000	❶/❶	45.0/50.0
KT12038220SH	S	230	50/60		2500/3000	96/108	7.80/8.80	0.12/0.10	17.0/15.0	20000	❶/❶	45.0/50.0
KW12038220SH	S		50/60		2500/3000	96/108	7.80/8.80	0.12/0.10	17.0/15.0	20000	❶/❶	45.0/50.0
KT12038220BM	2B		50/60		2100/2300	90/88	6.20/4.00	0.07/0.06	12.0/11.0	60000	❷/❷	41.0/43.0
KW12028220BM	2B		50/60		2100/2300	90/88	6.20/4.00	0.07/0.06	12.0/11.0	60000	❷/❷	41.0/43.0
KT12038220BH	2B		50/60		2500/3000	96/108	7.80/8.80	0.12/0.10	17.0/15.0	60000	❶/❶	45.0/50.0
KW12038220BH	2B		50/60		2500/3000	96/108	7.80/8.80	0.12/0.10	17.0/15.0	60000	❶/❶	45.0/50.0

2B: 2-ball bearing S: sleeve bearing

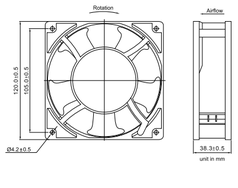
Voltage Available
115 230

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT17251 SERIES Y.S. TECH

172x150x51mm

- **Airflow: 190.0~223.0 CFM**
- **Static Pressure: 15.0~19.0 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 1050 g**

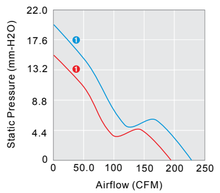
Model No.	VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour	dB(A)
KT17251115BH	2B	115	50/60	2600/3000	190/223	15.0/19.0	0.24/0.25	24.0/28.0	60000	❶/❷	56.6/60.6
KW17251115BH	2B		50/60	2600/3000	190/223	15.0/19.0	0.24/0.25	24.0/28.0	60000	❶/❷	56.6/60.6
KT17251220BH	2B	230	50/60	2600/3000	190/223	15.0/19.0	0.12/0.16	24.0/28.0	60000	❶/❷	56.6/60.6
KW17251220BH	2B		50/60	2600/3000	190/223	15.0/19.0	0.12/0.16	24.0/28.0	60000	❶/❷	56.6/60.6

2B: 2-ball bearing S: sleeve bearing

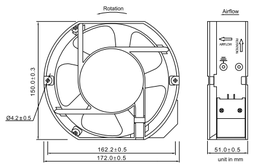
Voltage Available
115 **230**

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT18065 SERIES Y.S. TECH

180x180x65mm

- **Airflow: 349.5~397.5 CFM**
- **Static Pressure: 17.6~22.0 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 1800 g**

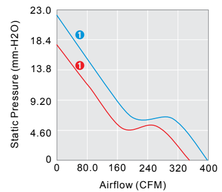
Model No.	VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour	dB(A)
KT18065115BH	2B	115	50/60	2650/3200	349.5/397.5	17.6/22.0	0.57/0.48	50.0/52.0	40000	❶/❷	59.7/63.6
KW18065115BH	2B		50/60	2650/3200	349.5/397.5	17.6/22.0	0.57/0.48	50.0/52.0	40000	❶/❷	59.7/63.6
KT18065220BH	2B	230	50/60	2650/3200	349.5/397.5	17.6/22.0	0.23/0.24	43.0/52.0	40000	❶/❷	59.7/63.6
KW18065220BH	2B		50/60	2650/3200	349.5/397.5	17.6/22.0	0.23/0.24	43.0/52.0	40000	❶/❷	59.7/63.6

2B: 2-ball bearing S: sleeve bearing

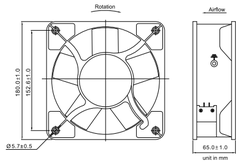
Voltage Available
115 **230**

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT18089 SERIES Y.S. TECH

176x176x89mm

- **Airflow: 344.8~397.2 CFM**
- **Static Pressure: 15.9~20.7 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Cast Aluminum**
- **Weight: 2000 g**

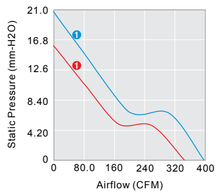
Model No.	VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour	dB(A)
KT18089115BH	2B	115	50/60	2650/3200	344.8/397.2	15.9/20.7	0.57/0.48	50.0/52.0	40000	❶/❷	61.1/64.8
KW18089115BH	2B		50/60	2650/3200	344.8/397.2	15.9/20.7	0.57/0.48	50.0/52.0	40000	❶/❷	61.1/64.8
KT18089220BH	2B	230	50/60	2650/3200	344.8/397.2	15.9/20.7	0.21/0.23	43.0/52.0	40000	❶/❷	61.1/64.8
KW18089220BH	2B		50/60	2650/3200	344.8/397.2	15.9/20.7	0.21/0.23	43.0/52.0	40000	❶/❷	61.1/64.8

2B: 2-ball bearing S: sleeve bearing

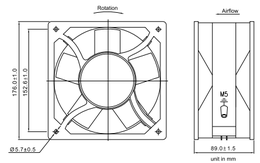
Voltage Available
115 **230**

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT25489 SERIES Y.S. TECH

Ø 254x89mm

- **Airflow: 443.0~699.8 CFM**
- **Static Pressure: 6.87~8.39 mm-H2O**
- **Blade:**
  Plastic Material UL 94V-0 P.B.T.
- **Frame:Die-Casting Aluminum**
- **Weight: 2000 g**

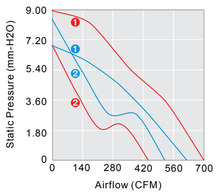
Model No.	VAC	Hz	RPM	CFM	mm-H2O	A	W	Hour	dB(A)
KT25489115BM	2B	115	50/60	1400/1600	443/518	6.87/8.39	0.22/0.24	34.0/37.0	40000	❶/❷	52.6/59.5
KW25489115BM	2B		50/60	1400/1600	443/518	6.87/8.39	0.22/0.24	34.0/37.0	40000	❶/❷	52.6/59.5
KT25489115BH	2B		50/60	2300/2200	700/620	8.90/6.80	0.55/0.62	60.0/67.0	40000	❶/❷	61.6/57.6
KW25489115BH	2B		50/60	2300/2200	700/620	8.90/6.80	0.55/0.62	60.0/67.0	40000	❶/❷	61.6/57.6
KT25489220BM	2B	230	50/60	1400/1600	443/518	6.87/8.39	0.16/0.14	34.0/37.0	40000	❶/❷	52.6/59.5
KW25489220BM	2B		50/60	1400/1600	443/518	6.87/8.39	0.16/0.14	34.0/37.0	40000	❶/❷	52.6/59.5
KT25489220BH	2B		50/60	2300/2200	700/620	8.90/6.80	0.26/0.30	60.0/67.0	40000	❶/❷	61.6/57.6
KW25489220BH	2B		50/60	2300/2200	700/620	8.90/6.80	0.26/0.30	60.0/67.0	40000	❶/❷	61.6/57.6

2B: 2-ball bearing S: sleeve bearing

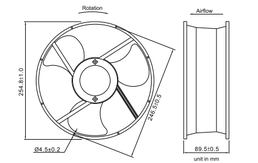
Voltage Available
115 **230**

Bearing System Available
2B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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KT28090 SERIES

Y.S. TECH

280x280x89mm

- **Airflow: 655~1424 CFM**
- **Static Pressure: 9.65~33.0 mm-H2O**
- **Blade:**
  Glass reinforced thermoplastic, UL 94V-0
- **Frame:Die-Cast Aluminum**
- **Weight: 4240 g**

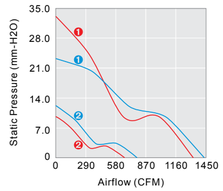
Model No.	Bearing	VAC	Rated Voltage	Hz	Freq	RPM	Speed	CFM	Max. Airflow	mm-H2O	Max. Static Pressure	A	Current	W	Power Consumption	Hour	Life at 65°C L10	P-Q Curve	dB(A)	Noise Level
KT28089115BM	2B	115		50/60		1500/1700		655/ 779		9.65/12.2		0.82/0.67		61/ 60		40000			56.2/59.0	
KW28090115BM	2B			50/60		1500/1700		655/ 779		9.65/12.2		0.82/0.67		61/ 60		40000			56.2/59.0	
KT28090115BH	2B			50/60		2800/3200		1321/1424		33.0/23.1		1.65/2.50		185/300		40000			67.8/69.3	
KW28090115BH	2B			50/60		2800/3200		1321/1424		33.0/23.1		1.65/2.50		185/300		40000			67.8/69.3	
KT28090220BM	2B	230		50/60		1500/1700		655/ 779		9.65/12.2		0.42/0.35		62/ 65		40000			56.2/59.0	
KW28090220BM	2B			50/60		1500/1700		655/ 779		9.65/12.2		0.42/0.35		62/ 65		40000			56.2/59.0	
KT28090220BH	2B			50/60		2800/3200		1321/1424		33.0/23.1		0.75/1.25		185/290		40000			67.8/69.3	
KW28090220BH	2B			50/60		2800/3200		1321/1424		33.0/23.1		0.75/1.25		185/290		40000			67.8/69.3	

2B: 2-ball bearing S: sleeve bearing

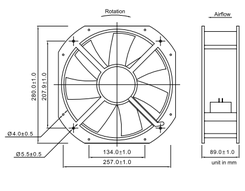
Voltage Available
1 1 5 2 3 0

Bearing System Available
2 B S

PERFORMANCE P-Q CURVE



OUTLINE DIMENSIONS



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YOUR BEST PARTNER OF THERMAL SOLUTIONS

Y.S. TECH

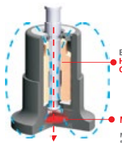
SINTETICO bearing system makes more reliable & stable

- The particular mechanism for oil leakage prevention makes proper oil film on surface of bearing and shaft to reduced damage when fan start up.
- Dynamic Pressure Field will be constructed when fan are running to sustain shaft rotate with concentricity to prevent bearing will not collided with shaft.
- Magnetic Effect makes shaft always working more smoothly to decrease Gyro Effect. That also decreases the probability of bearing collided with shaft and prevent oil film was damaged.

Gyro Effect

The Gyro Effect Short the Life of Bearing and More Vibration
Unstable!

Magnetic Effect



Magnetic Effect makes shaft always working more smoothly to decrease Gyro Effect.
That also decrease the probability of bearing collided with shaft and prevent oil film was damaged.

IP X7 proof Series

Whole new waterproof package process!

- **Lower coil temperature and higher reliability.**
- **Simple structure and easy to assembly with dfifferent bearing system.**
- **Motor Set package alone. It is easy for 100% inspection of waterproof reliability in process.**
- **Best application for Solar,Lighting and telecommunication market.**
- **Customized design for Acid,Alkali and Oil proving.**

NOTES:

Y.S. TECH

元山科技工業股份有限公司
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