2016-2017 PRODUCTS GUIDE
COOLING FAN ENGINEERING HANDBOOK
YOUR BEST PARTNER FOR THERMAL SOLUTIONS
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CONTACTS

About Y.S. TECH

Table for Technology Comparison was established in G.C, family member of Y.S. TECH.

FREE TECH Support Line: +886-3-323-6666
Free Tech Support Line: +886-3-323-6666

Y.S. TECH Customer Support System:

1. In Taiwan: toll-free 0800-888-088

2. In China: +86-010-6801-8444

3. In Korea: +82-2-345-0707

4. In Japan: +81-3-5418-2222

5. In other areas: +886-3-323-6666

For Taiwan: "FREE TECH" service center located in Taiwan (ISSC) provided

For China: "FREE TECH" service center located in China (ISSC) provided

For Korea: "FREE TECH" service center located in Korea (ISSC) provided

For Japan: "FREE TECH" service center located in Japan (ISSC) provided

For other areas: "FREE TECH" service center located in Taiwan (ISSC) provided

For all areas: "FREE TECH" service center located in Taiwan (ISSC) provided

FAN MODEL NUMBERING SYSTEM

Explanation

Table: Summary Table

- Dimension: 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500 1550 1600 1650 1700 1750 1800 1850 1900 1950 2000 2050 2100 2150 2200 2250 2300 2350 2400 2450 2500 2550 2600 2650 2700 2750 2800 2850 2900 2950 3000 3050 3100 3150 3200 3250 3300 3350 3400 3450 3500 3550 3600 3650 3700 3750 3800 3850 3900 3950 4000 4050 4100 4150 4200 4250 4300 4350 4400 4450 4500 4550 4600 4650 4700 4750 4800 4850 4900 4950 5000 5050 5100 5150 5200 5250 5300 5350 5400 5450 5500 5550 5600 5650 5700 5750 5800 5850 5900 5950 6000 6050 6100 6150 6200 6250 6300 6350 6400 6450 6500 6550 6600 6650 6700 6750 6800 6850 6900 6950 7000 7050 7100 7150 7200 7250 7300 7350 7400 7450 7500 7550 7600 7650 7700 7750 7800 7850 7900 7950 8000 8050 8100 8150 8200 8250 8300 8350 8400 8450 8500 8550 8600 8650 8700 8750 8800 8850 8900 8950 9000 9050 9100 9150 9200 9250 9300 9350 9400 9450 9500 9550 9600 9650 9700 9750 9800 9850 9900 9950 10000

- Thickness: 5mm 6mm 7mm 8mm 9mm 10mm 11mm 12mm 13mm 14mm 15mm 16mm 17mm 18mm 19mm 20mm 21mm 22mm 23mm 24mm 25mm 26mm 27mm 28mm 29mm 30mm 31mm 32mm 33mm 34mm 35mm 36mm 37mm 38mm 39mm 40mm 41mm 42mm 43mm 44mm 45mm 46mm 47mm 48mm 49mm 50mm 51mm 52mm 53mm 54mm 55mm 56mm 57mm 58mm 59mm 60mm 61mm 62mm 63mm 64mm 65mm 66mm 67mm 68mm 69mm 70mm 71mm 72mm 73mm 74mm 75mm 76mm 77mm 78mm 79mm 80mm 81mm 82mm 83mm 84mm 85mm 86mm 87mm 88mm 89mm 90mm 91mm 92mm 93mm 94mm 95mm 96mm 97mm 98mm 99mm 100mm

- Voltage Type: A 115V/60AC B 220V/50AC

- Bearing Type: A Ball Bearing B Sleeve Bearing

- Screw (1 case): L Low Speed M Medium Speed H High Speed E Extreme Speed

AC Fan Model Numbering System

KT1 125 38 31 35 39 [Suffix]

- Product Type: KT1 125 38 31 35 39 [Suffix]

- Dimension: 125 38 31 35 39 [Suffix]

- Thickness: 125 38 31 35 39 [Suffix]

- Voltage Type: A 115V/60AC B 220V/50AC

- Bearing Type: A Ball Bearing B Sleeve Bearing

- Screw (1 case): L Low Speed M Medium Speed H High Speed E Extreme Speed
Sound Quality Analysis

Convection that need cooling fan or blower to dissipate. Consumption of system. P presents forced fan operation. Choose a right fan & blower to meet your needs. What is fan dimension you need?

1. Watt:

2. Air Impedance:

3. Temperature Gradient:

4. Dimension:

5. Convection effects contain free convection and forced convection. We are going to illustrate you some methods how to calculate these effects. What is acoustic noise specification you need?

1. SPL, sound pressure level

2. Sone

3. Noise Level:

4. Noise Level is different from noise Power Level.

STEP 3: Choose a solution with the appropriate combination of fan characteristics (flow rate, static pressure, speed) and system parameters (air impedance, temperature differential, etc.). Normally, we introduced the experience parameter with the assumption of a constant flow rate and pressure drop. The experience parameter allows us to calculate the power consumption of the fan, which is a function of the fan speed and the pressure drop.

There is an equation that may show as below:

Fan Operating Point is an intersection point by fan performance curve (flow rate/ static pressure) and system characteristic. Normally, It is measured by static pressure, temperature gradient and the system parameter. Fan curve may show as below:

As aforementioned, the flow rate, static pressure, power consumption and acoustic noise are always trade-off. It is very important that the subjective human aural perception is often greater than or equal to the expected value at a given confidence level. Here we have illustrated against such errors.

The equation which may show as below:

T = T - T

is 2 1,2

Sound Quality

Radiation transfer. P presents total power system approach. Life (L10), RoHS and Application Note.

5.Dimension:

4.Temperature Gradient:

2.Air Impedance:

1.Watt:

There are five questions of thermal inquiry we need to answer. Here are five questions of thermal inquiry we need to answer. Give an enough space to your critical parts and place your fan properly.

1. Proper system air impedance design will always cause adverse effect. Noise Level is different from Noise Power Level.

2. Higher system air impedance needs a higher static pressure and lower acoustic noise.

3. The power consumption and acoustic noise are always trade-off. It is very important that the subjective human aural perception is often greater than or equal to the expected value at a given confidence level.

4. The subjective human aural perception is often greater than or equal to the expected value at a given confidence level.

5. Finger guards are recommended to prevent personal injury. Apply pressure to the impeller, handling the impellers of the working fans such interruption will cause adverse effect. Noise Level is different from Noise Power Level.

II. Measurement methods

A. Measurement methods are used to find the environmental and system parameters. Example: Environmental parameters are usually found by the monitoring of the measured data, and system parameter are found by the system simulation, etc.

B. Measurement equations

1. Measurement equations are used to find the environmental parameter from measured data or system parameter from the system simulation. Equation of system simulation is used to find the expected parameter from the measured data. Equation of measured data is used to find the expected parameter from the system simulation.

II. Measurement methods

1. Measurement methods are used to find the environmental and system parameters. Example: Environmental parameters are usually found by the monitoring of the measured data, and system parameters are found by the system simulation, etc.

2. Measurement equations are used to find the environmental parameter from measured data or system parameter from the system simulation. Equation of system simulation is used to find the expected parameter from the measured data. Equation of measured data is used to find the expected parameter from the system simulation.

- Measurement equations

I. Environmental and System Parameters

Environmental and System Parameters are used as the input for the system simulation. In most cases the environmental parameters are found by monitoring of the measured data, and system parameters are found by the system simulation. In most cases the environmental parameters are found by monitoring of the measured data, the system parameter is found by the system simulation. In most cases the environmental parameters are found by monitoring of the measured data, the system parameter is found by the system simulation.
According to above equations, it is very clear the acoustic noise level will reduce 6 dB when the distance doubled. Comparatively,
### XYW03828 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Bearing</th>
<th>Voltage Range</th>
<th>Speed</th>
<th>Max. Airflow</th>
<th>Static Pressure</th>
<th>Current</th>
<th>Life at 40°C L10</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYW03828012BSS</td>
<td>2B</td>
<td>17000</td>
<td>11.56</td>
<td>56.0</td>
<td>12.56</td>
<td>0.60</td>
<td>13,500</td>
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<tr>
<td>XYW03828012BH</td>
<td>2B</td>
<td>21000</td>
<td>23.89</td>
<td>25.0</td>
<td>23.89</td>
<td>0.44</td>
<td>13,500</td>
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<tr>
<td>XYW03828012BM</td>
<td>2B</td>
<td>23500</td>
<td>20.93</td>
<td>29.28</td>
<td>29.28</td>
<td>0.46</td>
<td>13,500</td>
</tr>
<tr>
<td>XYW03828012BS</td>
<td>2B</td>
<td>25000</td>
<td>29.28</td>
<td>38.0</td>
<td>38.0</td>
<td>0.48</td>
<td>13,500</td>
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### XYW03848 SERIES

<table>
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<th>Model No.</th>
<th>Bearing</th>
<th>Voltage Range</th>
<th>Speed</th>
<th>Max. Airflow</th>
<th>Static Pressure</th>
<th>Current</th>
<th>Life at 40°C L10</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYW03848012BSS</td>
<td>2B</td>
<td>13.73</td>
<td>5.40</td>
<td>65000</td>
<td>53.0</td>
<td>0.42</td>
<td>13,500</td>
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<tr>
<td>XYW03848012BH</td>
<td>2B</td>
<td>17.53</td>
<td>20.5</td>
<td>70000</td>
<td>58.0</td>
<td>0.30</td>
<td>13,500</td>
</tr>
<tr>
<td>XYW03848012BM</td>
<td>2B</td>
<td>15.77</td>
<td>20.5</td>
<td>75000</td>
<td>58.0</td>
<td>0.30</td>
<td>13,500</td>
</tr>
<tr>
<td>XYW03848012BS</td>
<td>2B</td>
<td>20.96</td>
<td>20.5</td>
<td>100000</td>
<td>58.0</td>
<td>0.30</td>
<td>13,500</td>
</tr>
</tbody>
</table>

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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Please refer to the bearing function, function and speed level indication.

Visit Y.S. TECH web site at [www.ystechusa.com](http://www.ystechusa.com/) for updated information. Customized Specifications are designed accordingly.

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NYW0401 SERIES

NYW04015 SERIES

NYW04010 SERIES

NYW04015 SERIES

NYW04010 SERIES

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NYW0401 SERIES

NYW04015 SERIES

NYW04010 SERIES

NYW04015 SERIES

NYW04010 SERIES

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NYW0401 SERIES

NYW04015 SERIES

NYW04010 SERIES

NYW04015 SERIES

NYW04010 SERIES

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<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>RPM</th>
<th>CFM</th>
<th>Static Pressure (mm H2O)</th>
<th>dB (A)</th>
<th>Life at 40 °C L10</th>
<th>Power Consumption (W)</th>
<th>Life at 25 °C L10</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYW04028-S01 2BD-S</td>
<td>58.6</td>
<td>63.4</td>
<td>13.2</td>
<td>20000</td>
<td>17~13.2</td>
<td>80000</td>
<td>600</td>
<td>23.6</td>
<td>44.6</td>
</tr>
</tbody>
</table>

Please refer to Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department.
### XYW04028-P SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>Current</th>
<th>Life at 40°C</th>
<th>Static Pressure</th>
<th>Airflow</th>
<th>Performance P-Q Curve</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYW04028012BS</td>
<td>7~13.2 VDC</td>
<td>4500 mA</td>
<td>2.0 x 10^5 h at 40°C</td>
<td>1.0~3.0 mmH2O</td>
<td>8.3~12.9 CFM</td>
<td><img src="image1" alt="Performance Curve" /></td>
<td>40x40x28mm</td>
</tr>
<tr>
<td>XYW04028024BL</td>
<td>12~26.4 VDC</td>
<td>9000 mA</td>
<td>3.0 x 10^5 h at 40°C</td>
<td>3.0~5.5 mmH2O</td>
<td>10.9~17.1 CFM</td>
<td><img src="image2" alt="Performance Curve" /></td>
<td>40x40x28mm</td>
</tr>
<tr>
<td>XYW04028012BM</td>
<td>7~13.2 VDC</td>
<td>5500 mA</td>
<td>2.0 x 10^5 h at 40°C</td>
<td>1.0~3.0 mmH2O</td>
<td>8.3~12.9 CFM</td>
<td><img src="image3" alt="Performance Curve" /></td>
<td>40x40x28mm</td>
</tr>
<tr>
<td>XYW04028024BM</td>
<td>12~26.4 VDC</td>
<td>9000 mA</td>
<td>3.0 x 10^5 h at 40°C</td>
<td>3.0~5.5 mmH2O</td>
<td>10.9~17.1 CFM</td>
<td><img src="image4" alt="Performance Curve" /></td>
<td>40x40x28mm</td>
</tr>
<tr>
<td>XYW04028012BU</td>
<td>7~13.2 VDC</td>
<td>5500 mA</td>
<td>2.0 x 10^5 h at 40°C</td>
<td>1.0~3.0 mmH2O</td>
<td>8.3~12.9 CFM</td>
<td><img src="image5" alt="Performance Curve" /></td>
<td>40x40x28mm</td>
</tr>
<tr>
<td>XYW04028024BSE</td>
<td>12~26.4 VDC</td>
<td>9000 mA</td>
<td>3.0 x 10^5 h at 40°C</td>
<td>3.0~5.5 mmH2O</td>
<td>10.9~17.1 CFM</td>
<td><img src="image6" alt="Performance Curve" /></td>
<td>40x40x28mm</td>
</tr>
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### NYW05010 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>Current</th>
<th>Life at 40°C</th>
<th>Static Pressure</th>
<th>Airflow</th>
<th>Performance P-Q Curve</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>NYW05010012BL</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image7" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
</tr>
<tr>
<td>NYW05010012BM</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image8" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
</tr>
<tr>
<td>NYW05010012SL</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image9" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
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### NYW05015 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>Current</th>
<th>Life at 40°C</th>
<th>Static Pressure</th>
<th>Airflow</th>
<th>Performance P-Q Curve</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>NYW05015012BL</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image10" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
</tr>
<tr>
<td>NYW05015024BS</td>
<td>7~13.2 VDC</td>
<td>9000 mA</td>
<td>3.0 x 10^5 h at 40°C</td>
<td>3.0~5.5 mmH2O</td>
<td>8.3~12.9 CFM</td>
<td><img src="image11" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
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</tbody>
</table>

### NYW05010 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>Current</th>
<th>Life at 40°C</th>
<th>Static Pressure</th>
<th>Airflow</th>
<th>Performance P-Q Curve</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYW05010012BL</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image12" alt="Performance Curve" /></td>
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<tr>
<td>NYW05010012BM</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image13" alt="Performance Curve" /></td>
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<tr>
<td>NYW05010012SL</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image14" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
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### NYW05015 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>Current</th>
<th>Life at 40°C</th>
<th>Static Pressure</th>
<th>Airflow</th>
<th>Performance P-Q Curve</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>NYW05015012BL</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image15" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
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<tr>
<td>NYW05015024BS</td>
<td>7~13.2 VDC</td>
<td>9000 mA</td>
<td>3.0 x 10^5 h at 40°C</td>
<td>3.0~5.5 mmH2O</td>
<td>8.3~12.9 CFM</td>
<td><img src="image16" alt="Performance Curve" /></td>
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### NYW05010 SERIES

<table>
<thead>
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<th>Model No.</th>
<th>Voltage</th>
<th>Current</th>
<th>Life at 40°C</th>
<th>Static Pressure</th>
<th>Airflow</th>
<th>Performance P-Q Curve</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>NYW05010012BL</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image17" alt="Performance Curve" /></td>
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<td>NYW05010012BM</td>
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<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
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<td>NYW05010012SL</td>
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<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image19" alt="Performance Curve" /></td>
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### NYW05015 SERIES

<table>
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<th>Model No.</th>
<th>Voltage</th>
<th>Current</th>
<th>Life at 40°C</th>
<th>Static Pressure</th>
<th>Airflow</th>
<th>Performance P-Q Curve</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYW05015012BL</td>
<td>7~13.2 VDC</td>
<td>7500 mA</td>
<td>2.5 x 10^5 h at 40°C</td>
<td>2.0~4.0 mmH2O</td>
<td>4.0~6.5 CFM</td>
<td><img src="image20" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
</tr>
<tr>
<td>NYW05015024BS</td>
<td>7~13.2 VDC</td>
<td>9000 mA</td>
<td>3.0 x 10^5 h at 40°C</td>
<td>3.0~5.5 mmH2O</td>
<td>8.3~12.9 CFM</td>
<td><img src="image21" alt="Performance Curve" /></td>
<td>50x50x10mm</td>
</tr>
</tbody>
</table>
### NYW06025 SERIES

#### NYW06025-W SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>VDC</th>
<th>W</th>
<th>RPM</th>
<th>CFM</th>
<th>mm-H2O</th>
<th>dB(A)</th>
<th>Hour</th>
<th>mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYW06025012BSS-W</td>
<td>12~14</td>
<td>80000</td>
<td>3.8</td>
<td>1.44</td>
<td>3700</td>
<td>70.5</td>
<td>200</td>
<td>6.5</td>
</tr>
<tr>
<td>NYW06025012BH-W</td>
<td>12~24</td>
<td>75000</td>
<td>2.4</td>
<td>0.96</td>
<td>5000</td>
<td>65.0</td>
<td>240</td>
<td>11.5</td>
</tr>
<tr>
<td>NYW06025012BL-W</td>
<td>24~48</td>
<td>65000</td>
<td>6.3</td>
<td>1.56</td>
<td>2300</td>
<td>51.0</td>
<td>178</td>
<td>16.5</td>
</tr>
</tbody>
</table>

### Footnotes:

- Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department.
- Voltage Available Function Available: Bearing System Available

#### NYW06038 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>VDC</th>
<th>W</th>
<th>RPM</th>
<th>CFM</th>
<th>mm-H2O</th>
<th>dB(A)</th>
<th>Hour</th>
<th>mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYW07010005BL</td>
<td>22.2</td>
<td>80000</td>
<td>4.32</td>
<td>2.88</td>
<td>110</td>
<td>63.0</td>
<td>160</td>
<td>9.1</td>
</tr>
<tr>
<td>HYW07010005BH</td>
<td>22.2</td>
<td>80000</td>
<td>4.32</td>
<td>2.88</td>
<td>110</td>
<td>63.0</td>
<td>160</td>
<td>9.1</td>
</tr>
</tbody>
</table>

### Footnotes:

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- Voltage Available Function Available: Bearing System Available

### OUTLINE DIMENSIONS

- Plastic Material: UL 94V-0 P.B.T.
- Airflow: 14.4~50.2 CFM
- Weight: 56 g
- Life at 40°C L10: 120,000 hours
- P-Q Curve
- Noise Level

### PERFORMANCE P-Q CURVE

- Static Pressure: 2.4~14.2 mm-H2O
- Airflow: 14.4~50.2 CFM
### YW07015 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage (VDC)</th>
<th>Current (mA)</th>
<th>Airflow (CFM)</th>
<th>Operating Voltage Range</th>
<th>Static Pressure (mm H₂O)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YW0701501 2SL</td>
<td>12</td>
<td>280</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0701501 2BL</td>
<td>12</td>
<td>260</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0701502 4BS</td>
<td>24</td>
<td>280</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0701502 4SS</td>
<td>24</td>
<td>260</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
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</table>

### YW07025 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage (VDC)</th>
<th>Current (mA)</th>
<th>Airflow (CFM)</th>
<th>Operating Voltage Range</th>
<th>Static Pressure (mm H₂O)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YW0702501 2SL</td>
<td>12</td>
<td>340</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0702501 2SH</td>
<td>12</td>
<td>320</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0702502 4BS</td>
<td>24</td>
<td>360</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0702502 4SS</td>
<td>24</td>
<td>340</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
</tbody>
</table>

### YW08015 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage (VDC)</th>
<th>Current (mA)</th>
<th>Airflow (CFM)</th>
<th>Operating Voltage Range</th>
<th>Static Pressure (mm H₂O)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YW0801501 2BSS-Q</td>
<td>12</td>
<td>400</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0801501 2BL-Q</td>
<td>12</td>
<td>380</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0801501 2BH-Q</td>
<td>12</td>
<td>360</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0801501 2BS-Q</td>
<td>12</td>
<td>340</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
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</tbody>
</table>

### YW08020 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage (VDC)</th>
<th>Current (mA)</th>
<th>Airflow (CFM)</th>
<th>Operating Voltage Range</th>
<th>Static Pressure (mm H₂O)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YW0802001 2BL</td>
<td>12</td>
<td>420</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0802001 2SL</td>
<td>12</td>
<td>400</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
<tr>
<td>YW0802002 4BH</td>
<td>24</td>
<td>460</td>
<td>7~13.2</td>
<td>24</td>
<td>3.5~6.8</td>
<td>54.4</td>
</tr>
</tbody>
</table>

Visit Y.S. TECH web site at http://www.ystechusa.com/
NYW08025 SERIES

- Model No.
- Voltage
- Current
- Power
- Airflow
- Static Pressure
- Life at 40°C L10
- Noise Level
- Weight
- Lead Wire
- Lead Min.
- moulded hast

NYW08032 SERIES

- Model No.
- Voltage
- Current
- Power
- Airflow
- Static Pressure
- Life at 40°C L10
- Noise Level
- Weight
- Lead Wire
- Lead Min.
- moulded hast

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### XYW08038 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>RPM</th>
<th>CFM</th>
<th>mm-H 2O</th>
<th>dB(A)</th>
<th>Hour</th>
<th>mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYW0803802</td>
<td>12~26.4</td>
<td>2800</td>
<td>25.0</td>
<td>100</td>
<td>75000</td>
<td>37.5</td>
<td>3</td>
</tr>
<tr>
<td>XYW0803804</td>
<td>24~56.0</td>
<td>2800</td>
<td>3.0</td>
<td>70</td>
<td>75000</td>
<td>33.0</td>
<td>4</td>
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### XYW08038-S SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>RPM</th>
<th>CFM</th>
<th>mm-H 2O</th>
<th>dB(A)</th>
<th>Hour</th>
<th>mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYW0803802</td>
<td>12~26.4</td>
<td>2800</td>
<td>25.0</td>
<td>100</td>
<td>75000</td>
<td>37.5</td>
<td>3</td>
</tr>
<tr>
<td>XYW0803804</td>
<td>24~56.0</td>
<td>2800</td>
<td>3.0</td>
<td>70</td>
<td>75000</td>
<td>33.0</td>
<td>4</td>
</tr>
</tbody>
</table>

### NYW09225 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>RPM</th>
<th>CFM</th>
<th>mm-H 2O</th>
<th>dB(A)</th>
<th>Hour</th>
<th>mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYW09225012SL</td>
<td>1.20</td>
<td>3000</td>
<td>25.0</td>
<td></td>
<td>25.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NYW09225012BH</td>
<td>1.10</td>
<td>3000</td>
<td>25.0</td>
<td></td>
<td>25.0</td>
<td></td>
<td></td>
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</table>

### YW09225 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>RPM</th>
<th>CFM</th>
<th>mm-H 2O</th>
<th>dB(A)</th>
<th>Hour</th>
<th>mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>YW09225048BH</td>
<td>24~56.0</td>
<td>2800</td>
<td>63.7</td>
<td>3.0</td>
<td>70</td>
<td>37.5</td>
<td>3</td>
</tr>
<tr>
<td>YW09225048BM</td>
<td>24~56.0</td>
<td>2800</td>
<td>3.0</td>
<td>70</td>
<td>75000</td>
<td>37.5</td>
<td>3</td>
</tr>
</tbody>
</table>

Please refer to Y.S. TECH web site at http://www.ystechusa.com/ for more information.

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Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department.

XYW09225-S SERIES

XYW092250 24BL-S
XYW092250 24BH-S
XYW092250 48BL-S
XYW092250 24BS-S
XYW092250 48BH-S

XYW09238-S SERIES

XYW09238048BS-S
XYW09238048BH-S
XYW09238048BL-S

KM12025 SERIES

120x120x25mm
- Airflow: 50.5-177.3 CFM
- Static Pressure: 1.6-11.3 mm H2O
- Bearing: Plastic Material: UL 94V-0 P.B.T.
- Lead Wire: UL1007 #24 AWG
- Weight: 117.8 g

Model No. | RPM | CFM | mm H2O | dB | Hour | mA
--- | --- | --- | --- | --- | --- | ---
XYW092250 | 97 | 100 | 109.3 | 5300 | 109.3 | 5300
XYW092250 | 100 | 100 | 100.3 | 100 | 100.3 | 100
XYW092250 | 76.2 | 76.2 | 87.8 | 76.2 | 87.8 | 76.2

Model No. | RPM | CFM | mm H2O | dB | Hour | mA
--- | --- | --- | --- | --- | --- | ---
XYW092380 | 5.40 | 80000 | 4.20 | 75000 | 5.28 | 75000

Please refer to the web site for updated information. Customized Specifications are designed accordingly.

### BW06018 SERIES

**60x60x18mm**
- Airflow: 6.7-7.2 CFM
- Static Pressure: 17.4-19.6 mm H2O
- Blade / Housing: Plastic Material, UL 94V-0, P.B.T.
- Lead Wire: UL1007 P/F AWG
- Weight: 8.1 g

### BW06025 SERIES

**60x60x25mm**
- Airflow: 6.9-12 CFM
- Static Pressure: 5.1-10.3 mm H2O
- Blade / Housing: Plastic Material, UL 94V-0, P.B.T.
- Lead Wire: UL1007 P/F AWG
- Weight: 10.2 g

### BW08030 SERIES

**75x75x30mm**
- Airflow: 8.1-16.5 CFM
- Static Pressure: 7.1-13.2 mm H2O
- Blade / Housing: Plastic Material, UL 94V-0, P.B.T.
- Lead Wire: UL1007 P/F AWG
- Weight: 10.8 g

### BW09733 SERIES

**97x97x33mm**
- Airflow: 20.5-32 CFM
- Static Pressure: 10.6-18.0 mm H2O
- Blade / Housing: Plastic Material, UL 94V-0, P.B.T.
- Lead Wire: UL1007 P/F AWG
- Weight: 11.9 g

**Performance P-Q Curve**

**Outline Dimensions**
Specifications are subject to changes without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department for updated information. Customized Specifications are designed accordingly.

BW12032 SERIES

- Voltage: 7~13.2 VDC
- Airflow: 23.0~47.5 CFM
- Static Pressure: 8.0~41.7 mm-H2O
- Weight: 120x120x32mm

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Airflow (CFM)</th>
<th>Static Pressure (mm-H2O)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7~13.2</td>
<td>23.0~47.5</td>
<td>8.0~41.7</td>
<td>120x120x32mm</td>
</tr>
</tbody>
</table>

ADT8025 SERIES

- Voltage Available: 4.20 VDC
- Airflow: 5.7/6.6 CFM
- Static Pressure: 3.9~6.6 mm-H2O
- Weight: 138 / 108 g

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Airflow (CFM)</th>
<th>Static Pressure (mm-H2O)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.20</td>
<td>5.7/6.6</td>
<td>3.9~6.6</td>
<td>138 / 108 g</td>
</tr>
</tbody>
</table>

Please refer to MiBo Technology Systems for bearing, function and speed level indication.
### Specifications

Please refer to Y.S. TECH web site at http://www.ystechusa.com/ for updated information. Customized Specifications are designed accordingly.

**Model No.**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Model</th>
<th>Numbering System</th>
<th>Bearing</th>
<th>Function and Speed Level Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT09225</td>
<td></td>
<td></td>
<td>2B: 2-ball bearing</td>
<td>S: sleeve bearing</td>
</tr>
</tbody>
</table>

**Static Pressure (mm-H2O)**

- KT09225: 4.80

**Airflow (CFM)**

- KT09225: 2252

**Power Consumption**

- KT09225: 52

**Max. Airflow**

- KT09225: 92x92x25.5mm

**Blade:**

- KT09225: Plastic Material UL 94V-0 P.B.T.

**Frame:**

- KT09225: Die-Cast Aluminum

**Weight:**

- KT09225: 260 g

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**KT09238 SERIES**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Model</th>
<th>Numbering System</th>
<th>Bearing</th>
<th>Function and Speed Level Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT12025</td>
<td></td>
<td></td>
<td>2B: 2-ball bearing</td>
<td>S: sleeve bearing</td>
</tr>
</tbody>
</table>

**Static Pressure (mm-H2O)**

- KT12025: 6.50

**Airflow (CFM)**

- KT12025: 36/34

**Power Consumption**

- KT12025: 10.0

**Max. Airflow**

- KT12025: 92x92x38.0mm

**Blade:**

- KT12025: Plastic Material UL 94V-0 P.B.T.

**Frame:**

- KT12025: Die-Cast Aluminum

**Weight:**

- KT12025: 450 g

---

**KT12038 SERIES**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Model</th>
<th>Numbering System</th>
<th>Bearing</th>
<th>Function and Speed Level Indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT12038</td>
<td></td>
<td></td>
<td>2B: 2-ball bearing</td>
<td>S: sleeve bearing</td>
</tr>
</tbody>
</table>

**Static Pressure (mm-H2O)**

- KT12038: 7.20

**Airflow (CFM)**

- KT12038: 5.40

**Power Consumption**

- KT12038: 3.60

**Max. Airflow**

- KT12038: 120x120x25.5mm

**Blade:**

- KT12038: Plastic Material UL 94V-0 P.B.T.

**Frame:**

- KT12038: Die-Cast Aluminum

**Weight:**

- KT12038: 260 g
### KT17251 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Speed</th>
<th>Airflow (CFM)</th>
<th>Static Pressure (mm-H2O)</th>
<th>Noise Level (dB(A))</th>
<th>Life at 25°C L10</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT17251220B H</td>
<td>115 S230</td>
<td>50/60</td>
<td>24.0/28.0</td>
<td>6000/0.24</td>
<td>40000/0.25</td>
<td>15.0/19.0</td>
<td>2600/3000</td>
<td>1050</td>
</tr>
</tbody>
</table>

**Blade:**
- Die-Cast Aluminum

**Plastic Material:**
- UL 94V-0 P.B.T.

**Specifications:**
- Airflow: 22.0 CFM
- Static Pressure: 0.50 CFM
- Weight: 1050 g

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### KT18065 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Speed</th>
<th>Airflow (CFM)</th>
<th>Static Pressure (mm-H2O)</th>
<th>Noise Level (dB(A))</th>
<th>Life at 25°C L10</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT18065220B H</td>
<td>115 S230</td>
<td>50/60</td>
<td>24.0/28.0</td>
<td>6000/0.24</td>
<td>40000/0.25</td>
<td>15.0/19.0</td>
<td>2600/3000</td>
<td>1800</td>
</tr>
</tbody>
</table>

**Blade:**
- Die-Cast Aluminum

**Plastic Material:**
- UL 94V-0 P.B.T.

**Specifications:**
- Airflow: 349.5 CFM
- Static Pressure: 23.0 CFM
- Weight: 1800 g

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### KT25489 SERIES

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Speed</th>
<th>Airflow (CFM)</th>
<th>Static Pressure (mm-H2O)</th>
<th>Noise Level (dB(A))</th>
<th>Life at 65°C L10</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KT25489220B M</td>
<td>115 S230</td>
<td>50/60</td>
<td>8.90/6.80</td>
<td>2300/0.26</td>
<td>2500/0.30</td>
<td>7.20/3.60</td>
<td>1400/1600</td>
<td>600</td>
</tr>
</tbody>
</table>

**Blade:**
- Die-Cast Aluminum

**Plastic Material:**
- UL 94V-0 P.B.T.

**Specifications:**
- Airflow: 230 CFM
- Static Pressure: 7.20 CFM
- Weight: 600 g
SINTETICO bearing system makes more reliable & stable

- The optional magnet for a magnetic brake prevents damage to the surface of the bearing and shaft if it is accidentally hit during startup.
- Magnetic Force: The shaft is constructed with a non-magnetic thin-steel plate in order to prevent thermal and electrical contact with the shaft.
- Magnetic Effect: Makes shaft linear movement smoother, thereby increasing system efficiency. The system also decreases the probability of bearing seizure with shaft rotation if it is field damaged.

Whole new waterproof package process!

- Lower internal temperature and higher reliability.
- Simple structure and easy to assemble with different bearing systems.
- Water Set package option. It is easy for TBD's inspection of waterproof reliability in process.
- Best application for Solar, Lighting and telecommunication market.
- Customized design for Acid, Alkali and Oil proving.

Specifications are subject to change without notice. Please refer to the formally issued product specification via contacting Y.S. TECH sales department.


Model No. | Rated Voltage | Speed (RPM) | Max. Airflow (CFM) | Max. Static Pressure (mm-H2O) | Noise Level (dB(A)) | Life at 65°C (L10) | Power Consumption (A) | Power Consumption (W) | Freq (Hz) | Bearing System Available | P-Q Curve
---|---|---|---|---|---|---|---|---|---|---|---
KT20089 115BM | 115 VAC | 50/60 | 655/779 | 61/65 | 40000 | 56.2/59.0 | 9.65/12.2 | 1500/1700 | 0.82/0.67 | 2B | S
KT20080 220BM | 220 VAC | 50/60 | 655/779 | 61/65 | 40000 | 56.2/59.0 | 9.65/12.2 | 1500/1700 | 0.82/0.67 | 2B | S
KT21001 115BM | 115 VAC | 50/60 | 1321/1424 | 185/290 | 40000 | 67.8/69.3 | 33.0/23.1 | 2800/3200 | 1.65/2.50 | 2B | S
Y.S. TECH

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