

**HEYU TECHNOLOGY**

# *Industrial Cooling Solutions*

## **SMART AIR, BETTER LIFE**

- **AC Fans**
- **DC Fans**
- **EC Fans**
- **Centrifugal Fans**
- **Fan Controllers**
- **OEM / ODM Solutions**



# DC FANS

## PRODUCT INDEX

### SMART AIR, BETTER LIFE

#### ■ PLASTIC IMPELLER

|                        |    |                           |       |
|------------------------|----|---------------------------|-------|
| 13 × 14 × 05 mm .....  | 04 | 70 × 70 × 10 mm .....     | 36    |
| 15 × 14 × 04 mm .....  | 05 | 70 × 70 × 15 mm .....     | 37    |
| 17 × 13 × 08 mm .....  | 06 | 70 × 70 × 25 mm .....     | 38    |
| 18 × 18 × 04 mm .....  | 07 | 80 × 80 × 15 mm .....     | 39    |
| 20 × 20 × 06 mm .....  | 08 | 80 × 80 × 20 mm .....     | 40    |
| 25 × 25 × 10 mm .....  | 09 | 80 × 80 × 25 mm .....     | 41    |
| 30 × 08 mm .....       | 10 | 80 × 80 × 25D mm .....    | 42    |
| 30 × 30 × 10 mm .....  | 11 | 80 × 80 × 32 mm .....     | 43    |
| 30 × 30 × 15 mm .....  | 12 | 80 × 80 × 32Y mm .....    | 44    |
| 36 × 36 × 28 mm .....  | 13 | 80 × 80 × 38 mm .....     | 45    |
| 38 × 38 × 20 mm .....  | 14 | 80 × 80 × 56 mm .....     | 46    |
| 38 × 38 × 28 mm .....  | 15 | 92 × 92 × 25C mm .....    | 47    |
| 38 × 38 × 48 mm .....  | 16 | 92 × 92 × 25Y mm .....    | 48    |
| 40 × 40 × 10 mm .....  | 17 | 92 × 92 × 38 mm .....     | 49    |
| 40 × 40 × 15 mm .....  | 18 | 92 × 92 × 38Y mm .....    | 50    |
| 40 × 40 × 15Y mm ..... | 19 | 120 × 120 × 25C mm .....  | 51    |
| 40 × 40 × 20B mm ..... | 20 | 120 × 120 × 25Y mm .....  | 52    |
| 40 × 40 × 28B mm ..... | 21 | 120 × 120 × 32Y mm .....  | 53    |
| 40 × 40 × 28D mm ..... | 22 | 120 × 120 × 38 mm .....   | 54    |
| 45 × 45 × 10 mm .....  | 23 | 120 × 120 × 38P mm .....  | 55    |
| 50 × 50 × 10 mm .....  | 24 | 127 × 127 × 38.5 mm ..... | 56–57 |
| 50 × 50 × 15 mm .....  | 25 | 140 × 140 × 25 mm .....   | 58    |
| 50 × 50 × 20 mm .....  | 26 | 172 × 150 × 38 mm .....   | 59    |
| 60 × 60 × 10 mm .....  | 27 | 172 × 51 mm .....         | 60    |
| 60 × 60 × 10Y mm ..... | 28 | 172 × 150 × 51 mm .....   | 61    |
| 60 × 60 × 15 mm .....  | 29 | 172 × 150 × 55 mm .....   | 62    |
| 60 × 60 × 20 mm .....  | 30 | 176 × 176 × 89 mm .....   | 63–64 |
| 60 × 60 × 20Y mm ..... | 31 | 180 × 180 × 65 mm .....   | 65–66 |
| 60 × 60 × 25 mm .....  | 32 | 200 × 70 mm .....         | 67–68 |
| 60 × 60 × 25Y mm ..... | 33 | 254 × 89 (3) mm .....     | 69    |
| 60 × 60 × 38 mm .....  | 34 | 254 × 89 mm .....         | 70–71 |
| 60 × 60 × 56 mm .....  | 35 | 280 × 280 × 88.9 mm ..... | 72–73 |

# DC FANS

## PRODUCT INDEX

**SMART AIR, BETTER LIFE**

### METAL IMPELLER

|                         |       |
|-------------------------|-------|
| 172 × 150 × 38 mm ..... | 74    |
| 172 × 51 mm .....       | 75    |
| 172 × 150 × 51 mm ..... | 76    |
| 172 × 150 × 55 mm ..... | 77    |
| 176 × 176 × 89 mm ..... | 78-79 |
| 180 × 180 × 65 mm ..... | 80-81 |
| 200 × 70 mm .....       | 82-83 |
| 225 × 225 × 80 mm ..... | 84    |
| 254 × 89 mm .....       | 85    |
| 280 × 280 × 80 mm ..... | 86    |
| 280 × 280 × 89 mm ..... | 87    |

## DC FANS

### 13x14x05 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +60°C

**Storage Temperature Range:** -20°C ~ +70°C

**Bearing:** Sleeve Bearing

**Motor Structure:** Brushless DC Motor

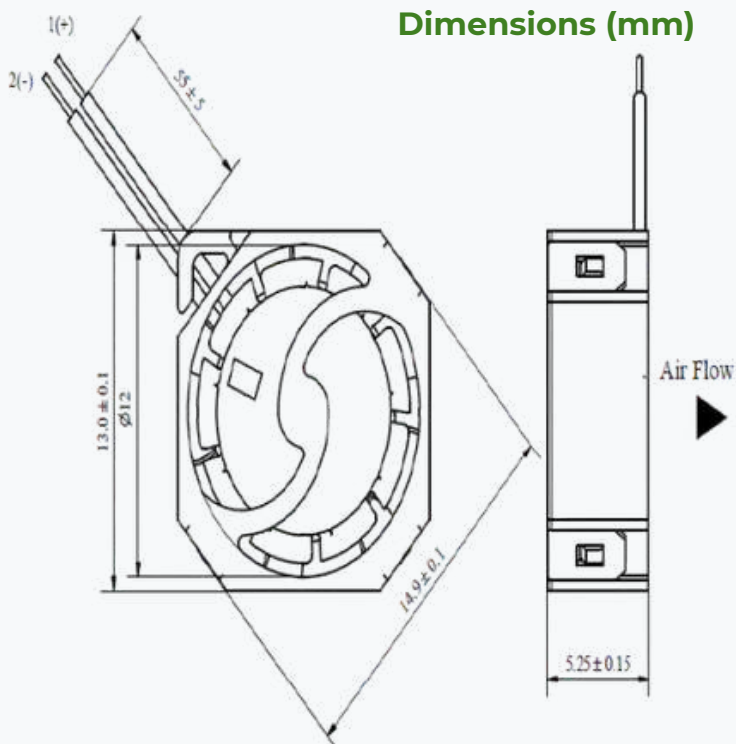
**Weight:** 1.17 g



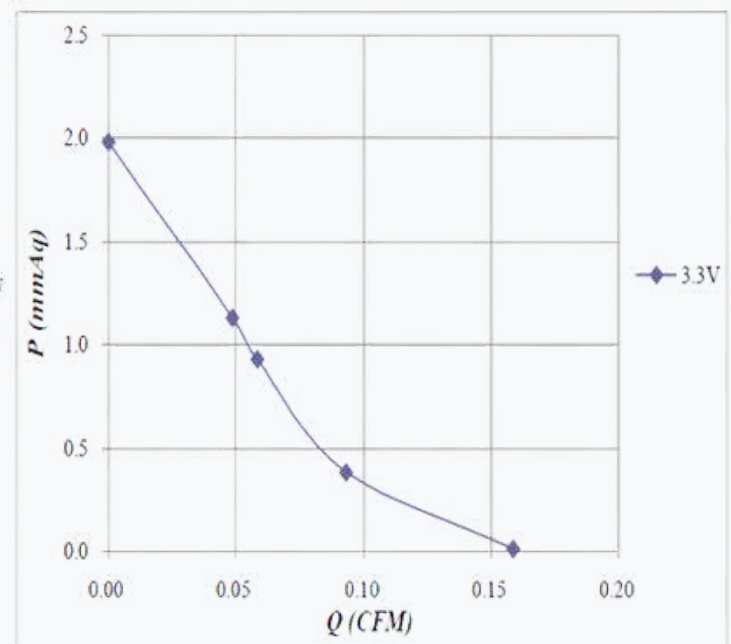
#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling



#### Performance Curve



| Model     | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-----------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD031305 | 3.3           | 2.8 – 3.6               | 0.039       | 16000       | 0.16           | 1.98                           | 15.7       |

## DC FANS

### 15x14x04 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +60°C

**Storage Temperature Range:** -20°C ~ +70°C

**Bearing:** Sleeve Bearing

**Motor Structure:** Brushless DC Motor

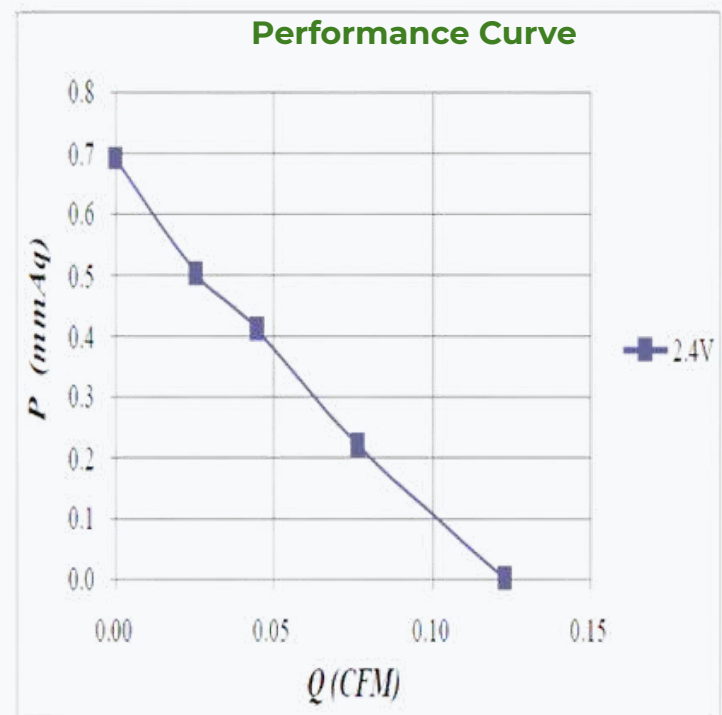
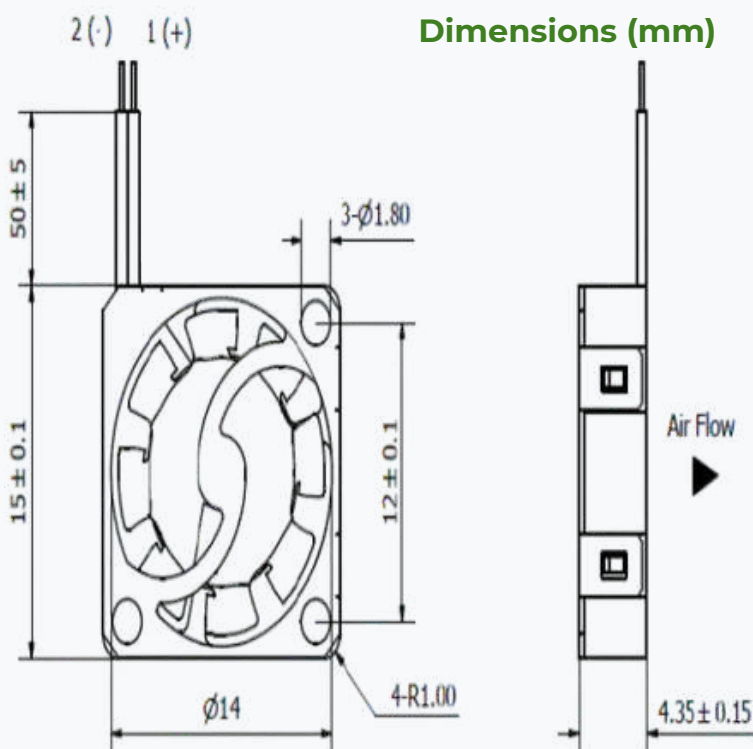
**Weight:** 1.27 g



#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling



| Model     | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-----------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD021504 | 2.4           | 2.4 – 3.3               | 0.011       | 7500        | 0.12           | 0.69                           | 14.6       |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 17x13x08 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +60°C

**Storage Temperature Range:** -20°C ~ +70°C

**Bearing:** Sleeve Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 2.06 g

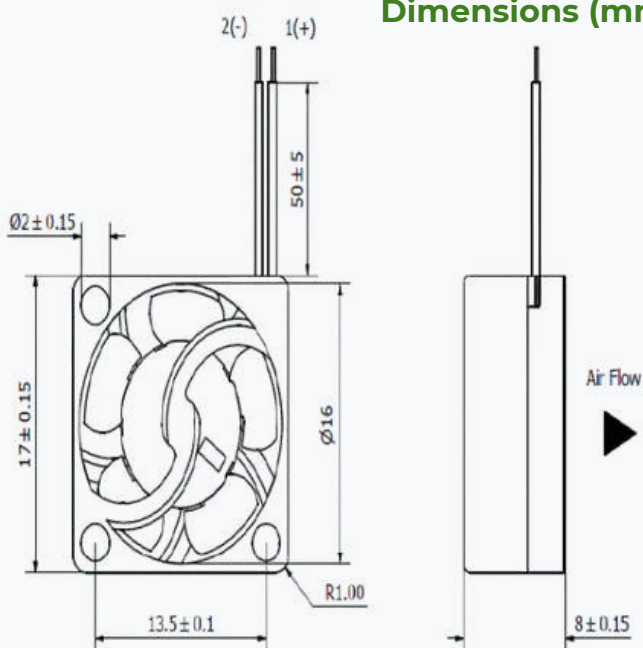


#### PLASTIC IMPELLER

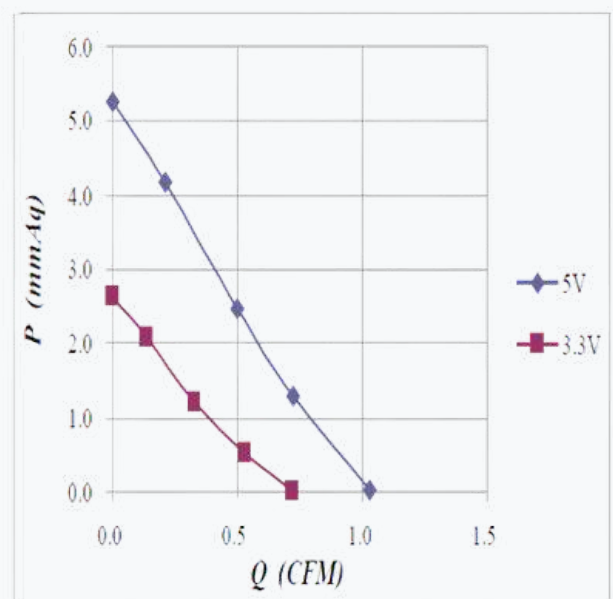
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model     | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-----------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD031708 | 3.3           | 2.8 – 3.6               | 0.05        | 11000       | 0.72           | 2.63                           | 16.5       |
| HYD051708 | 5             | 4.5 – 5.5               | 0.07        | 16000       | 1.03           | 5.26                           | 26.8       |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 18x18x04 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +60°C

**Storage Temperature Range:** -20°C ~ +70°C

**Bearing:** Sleeve Bearing

**Motor Structure:** Brushless DC Motor

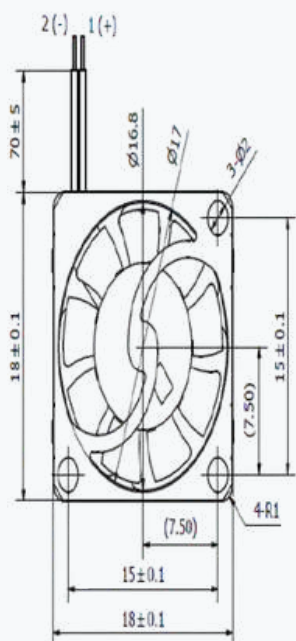
**Weight:** 1.63 g



#### PLASTIC IMPELLER

#### Typical Applications

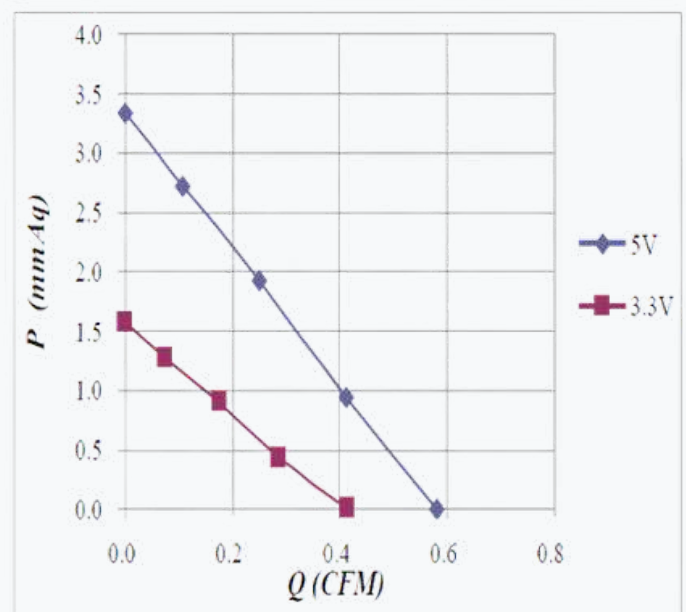
- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling



Dimensions (mm)



Performance Curve



| Model     | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-----------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD031804 | 3.3           | 2.8 – 3.6               | 0.041       | 9000        | 0.41           | 1.57                           | 15.9       |
| HYD051804 | 5             | 4.5 – 5.5               | 0.058       | 13000       | 0.58           | 3.34                           | 24.9       |

## DC FANS

### 20x20x06 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

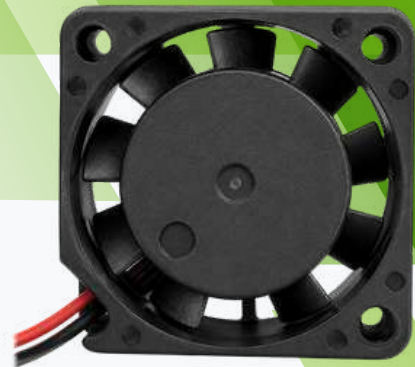
**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 4 g

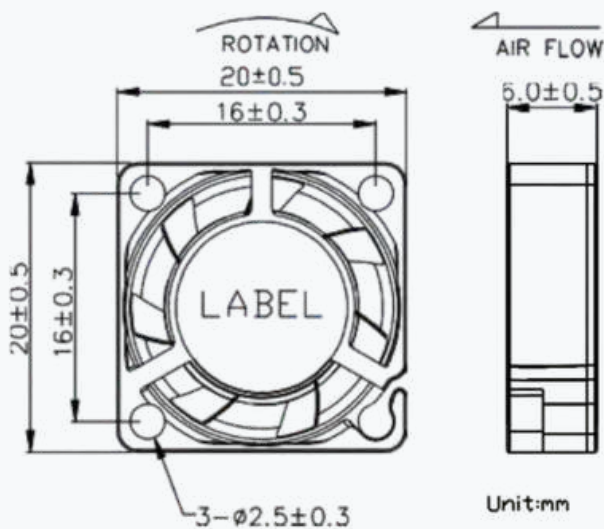


**PLASTIC IMPELLER**

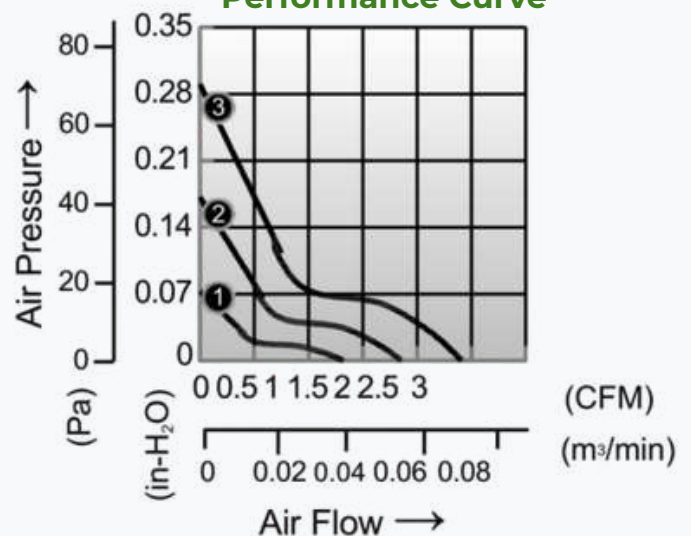
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD052006LF | 5             | 4.5 – 5.5               | 0.02        | 7000        | 0.35           | 0.03                           | 10         |
| HYD052006MF | 5             | 4.5 – 5.5               | 0.05        | 10000       | 0.71           | 0.07                           | 16         |
| HYD052006HF | 5             | 4.5 – 5.5               | 0.1         | 13000       | 1.06           | 0.13                           | 16         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 25x25x10 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

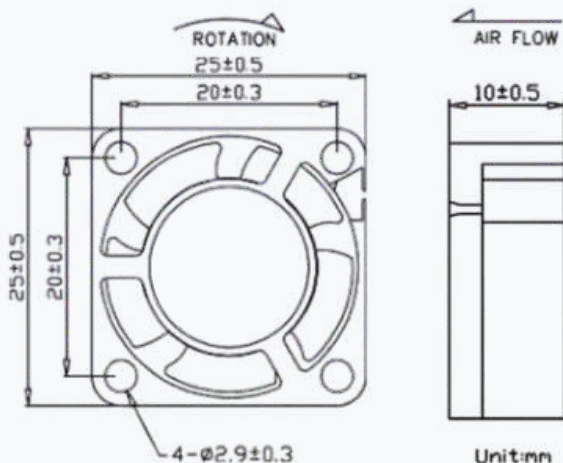
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 8 g

#### Dimensions (mm)

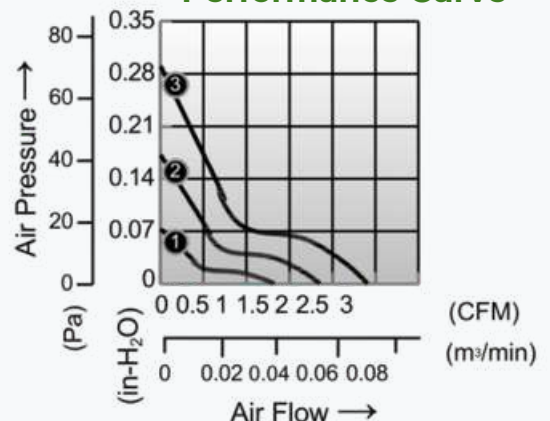


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD052510JB | 5             | 4.5 – 5.5               | 0.05        | 4000        | 0.52           | 0.03                           | 10         |
| HYD052510LB | 5             | 4.5 – 5.5               | 0.08        | 7000        | 1.32           | 0.07                           | 20         |
| HYD052510MB | 5             | 4.5 – 5.5               | 0.13        | 10000       | 1.85           | 0.17                           | 24         |
| HYD052510HB | 5             | 4.5 – 5.5               | 0.22        | 13000       | 2.41           | 0.29                           | 28         |
| HYD122510LB | 12            | 7.0 – 13.2              | 0.07        | 7000        | 1.32           | 0.07                           | 20         |
| HYD122510MB | 12            | 7.0 – 13.2              | 0.08        | 10000       | 1.85           | 0.17                           | 24         |
| HYD122510HB | 12            | 7.0 – 13.2              | 0.12        | 13000       | 2.41           | 0.29                           | 28         |
| HYD242510HB | 24            | 14.0 – 26.4             | 0.07        | 13000       | 2.41           | 0.29                           | 28         |

## DC FANS

### ø30x08 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +60°C

**Storage Temperature Range:** -20°C ~ +70°C

**Motor Structure:** Single-Phase Brushless DC Motor

**Weight:** 3.82 g

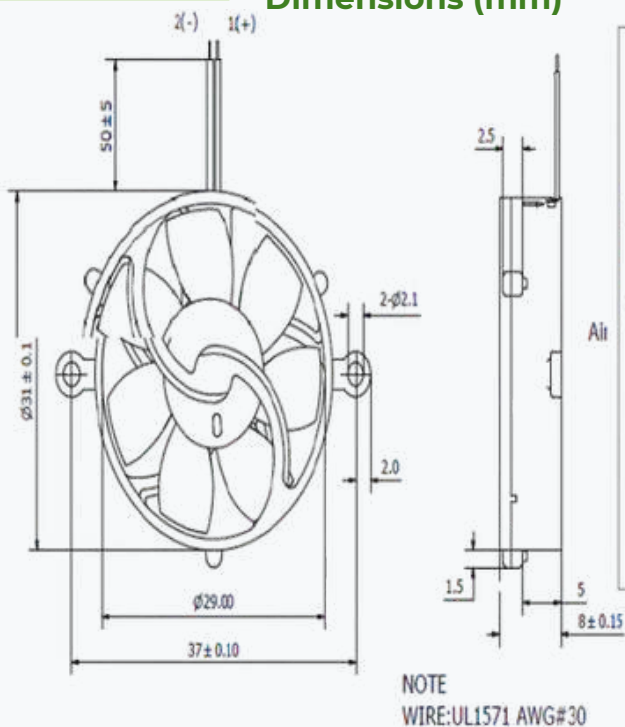


#### PLASTIC IMPELLER

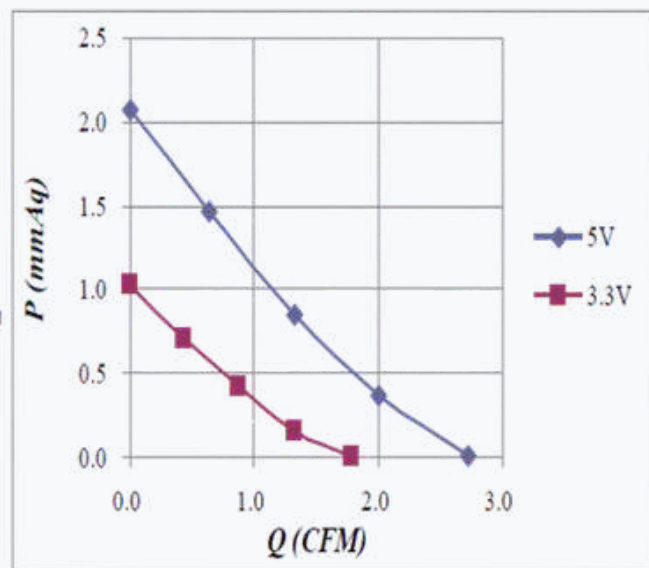
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model     | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-----------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD033008 | 3.3           | 2.8 – 3.6               | 0.037       | 4200        | 1.79           | 1.02                           | 15.9       |
| HYD053008 | 5             | 4.5 – 5.5               | 0.053       | 6200        | 2.72           | 2.07                           | 24.3       |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 30x30x10 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

**Motor Structure:** Brushless DC Motor

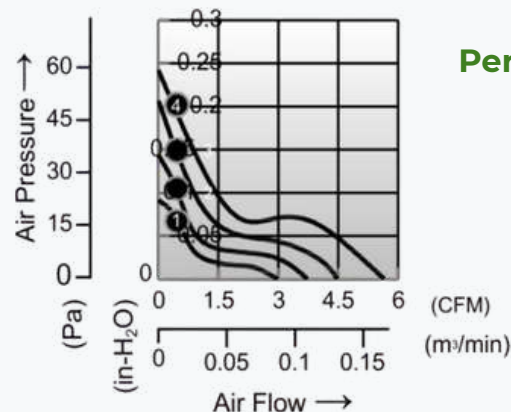
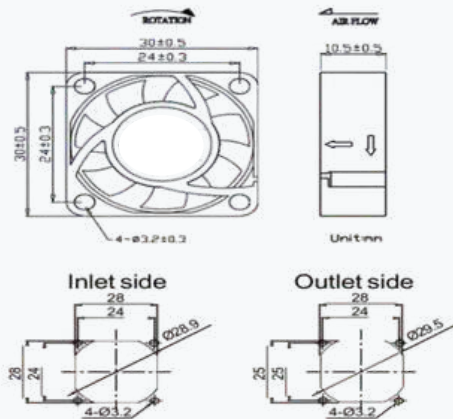
**Weight:** 10 g      **Dimensions (mm)**



#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling



Performance Curve

| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD053010LB | 5             | 4.5 – 5.5               | 0.09        | 6000        | 2.99           | 0.09                           | 17         |
| HYD053010MB | 5             | 4.5 – 5.5               | 0.12        | 7500        | 3.73           | 0.14                           | 24         |
| HYD053010HB | 5             | 4.5 – 5.5               | 0.24        | 9000        | 4.48           | 0.21                           | 29         |
| HYD053010XB | 5             | 4.5 – 5.5               | 0.27        | 11000       | 5.56           | 0.24                           | 31         |
| HYD123010LB | 12            | 7.0 – 13.2              | 0.03        | 6000        | 2.99           | 0.09                           | 17         |
| HYD123010MB | 12            | 7.0 – 13.2              | 0.05        | 7500        | 3.73           | 0.14                           | 24         |
| HYD123010HB | 12            | 7.0 – 13.2              | 0.07        | 9000        | 4.48           | 0.21                           | 29         |
| HYD123010XB | 12            | 7.0 – 13.2              | 0.09        | 11000       | 5.65           | 0.24                           | 31         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 30x30x15 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead Wire 150± 5mm

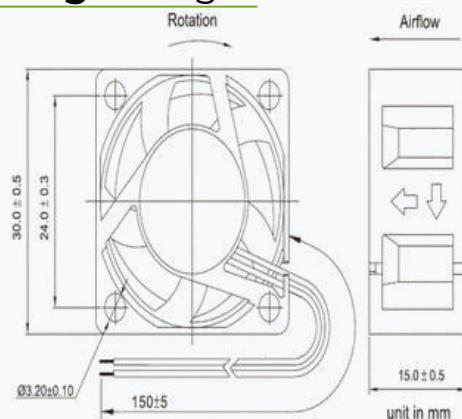
**Weight:** 13 g



#### PLASTIC IMPELLER

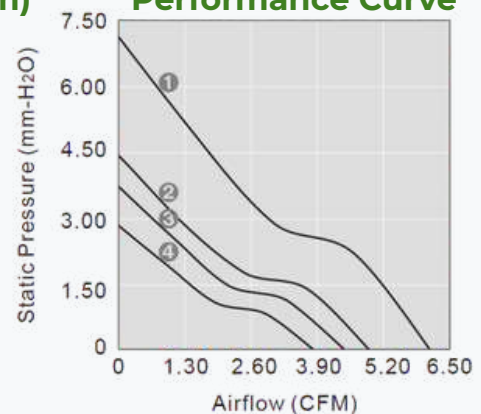
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling



#### Dimensions (mm)

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD053015LBL | 5             | 4.5 – 5.5               | 0.06        | 0.3       | 7000        | 3.8            | 0.11                           | < 17       |
| HYD053015MBL | 5             | 4.5 – 5.5               | 0.085       | 0.42      | 8000        | 4.4            | 0.15                           | 20.5       |
| HYD053015HBL | 5             | 4.5 – 5.5               | 0.11        | 0.55      | 9000        | 4.9            | 0.17                           | 25         |
| HYD053015XBL | 5             | 4.5 – 5.5               | 0.2         | 1         | 11000       | 5.7            | 0.25                           | 30         |
| HYD123015LBL | 12            | 7.0 – 13.2              | 0.03        | 0.36      | 7000        | 3.8            | 0.11                           | < 17       |
| HYD123015MBL | 12            | 7.0 – 13.2              | 0.04        | 0.48      | 8000        | 4.4            | 0.15                           | 20.5       |
| HYD123015HBL | 12            | 7.0 – 13.2              | 0.045       | 0.54      | 9000        | 4.9            | 0.17                           | 25         |
| HYD123015XBL | 12            | 7.0 – 13.2              | 0.09        | 1.08      | 11000       | 6.1            | 0.28                           | 30         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 36x36x28 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 46.5 g

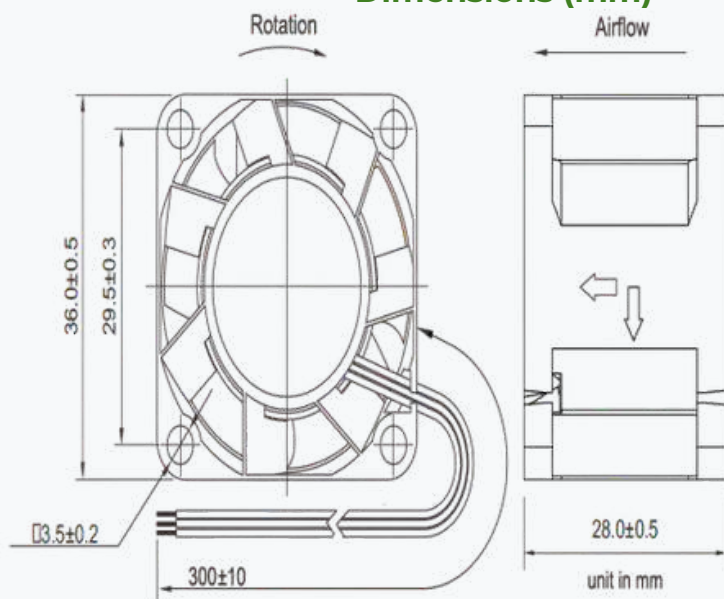


#### PLASTIC IMPELLER

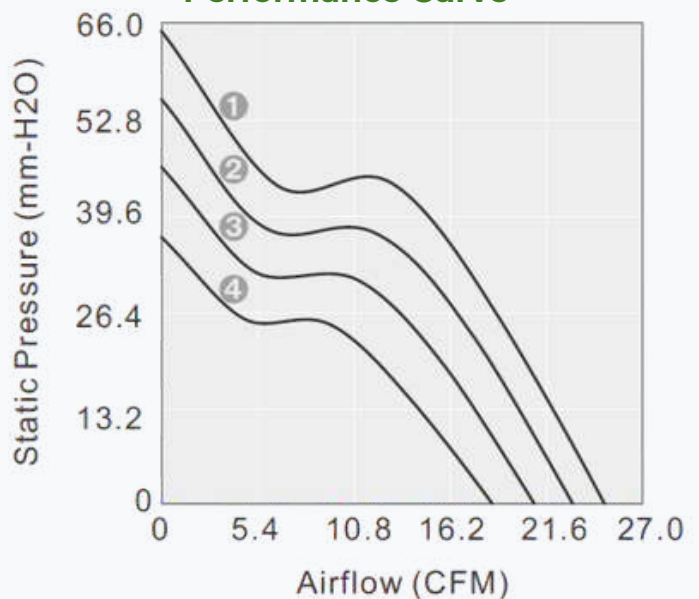
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H2O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|-------------------|------------|
| HYD123628MBL | 12            | 7- 13.2                 | 0.5         | 6         | 17000       | 18.74          | 1.44              | 56         |
| HYD123628HBL | 12            | 7- 13.2                 | 0.65        | 7.8       | 19000       | 21.05          | 1.83              | 59.5       |
| HYD123628UBL | 12            | 7- 13.2                 | 0.85        | 10.2      | 21000       | 23.22          | 2.19              | 61         |
| HYD123628VBL | 12            | 7- 13.2                 | 1           | 12        | 23000       | 24.99          | 2.56              | 63         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 38x38x20 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 31 g

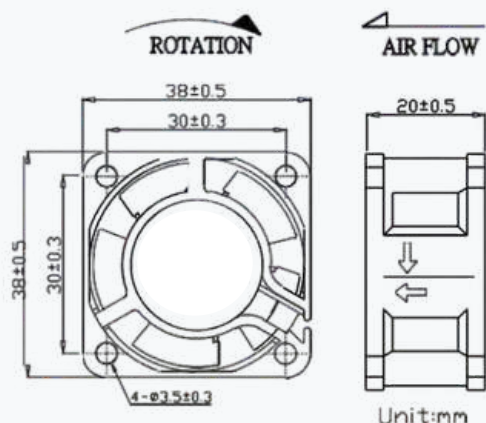


#### PLASTIC IMPELLER

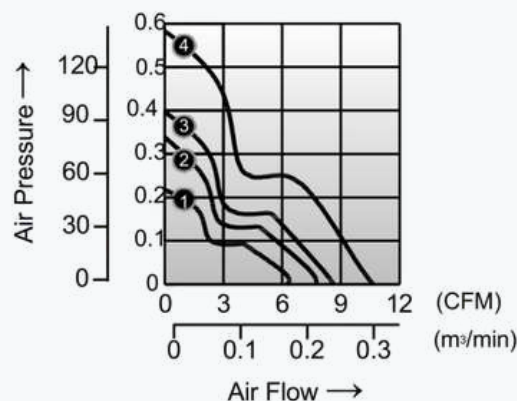
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD123820LB | 12            | 7– 13.2                 | 0.1         | 6700        | 6.3            | 0.22                           | 36         |
| HYD123820MB | 12            | 7– 13.2                 | 0.12        | 8000        | 7.4            | 0.34                           | 40         |
| HYD123820HB | 12            | 7– 13.2                 | 0.13        | 8900        | 8.6            | 0.39                           | 42         |
| HYD123820XB | 12            | 7– 13.2                 | 0.3         | 10000       | 10.6           | 0.58                           | 43         |
| HYD243820LB | 24            | 14.0 – 26.4             | 0.07        | 6700        | 6.3            | 0.22                           | 36         |
| HYD243820MB | 24            | 14.0 – 26.4             | 0.07        | 8000        | 7.4            | 0.34                           | 40         |
| HYD243820HB | 24            | 14.0 – 26.4             | 0.09        | 8900        | 8.6            | 0.39                           | 42         |
| HYD243820XB | 24            | 14.0 – 26.4             | 0.17        | 10000       | 10.6           | 0.58                           | 43         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 38x38x28 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 40 g

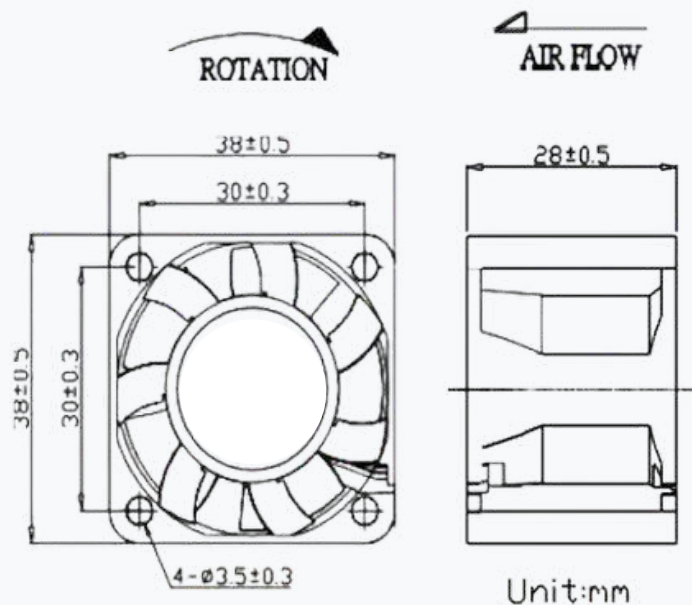


#### PLASTIC IMPELLER

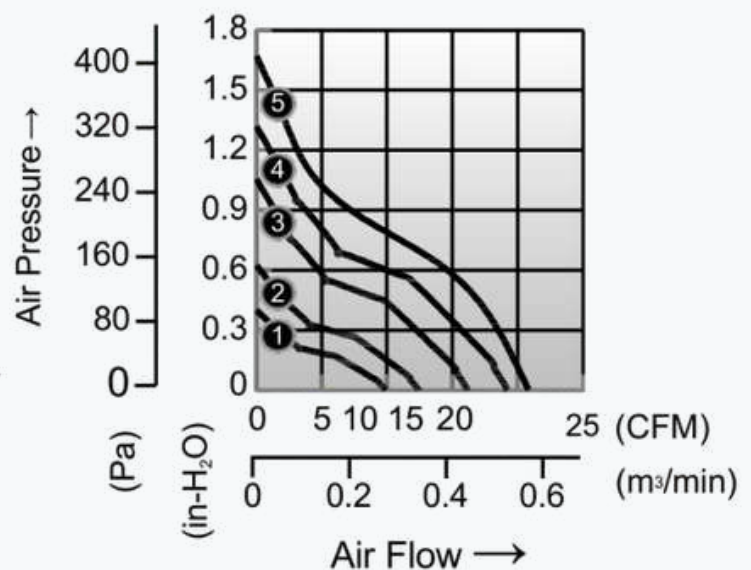
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYDB123828LB | 12            | 7.0– 13.2               | 0.11        | 8000        | 9.44           | 0.39                           | 38         |
| HYDB123828MB | 12            | 7.0– 13.2               | 0.15        | 10000       | 12.46          | 0.63                           | 44         |
| HYDB123828HB | 12            | 7.0– 13.2               | 0.29        | 13000       | 16.3           | 1.02                           | 51         |
| HYDB123828XB | 12            | 7.0– 13.2               | 0.48        | 15000       | 19.16          | 1.37                           | 55         |
| HYDB123828UB | 12            | 7.0– 13.2               | 0.85        | 17000       | 20.8           | 1.67                           | 59         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 38x38x48 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

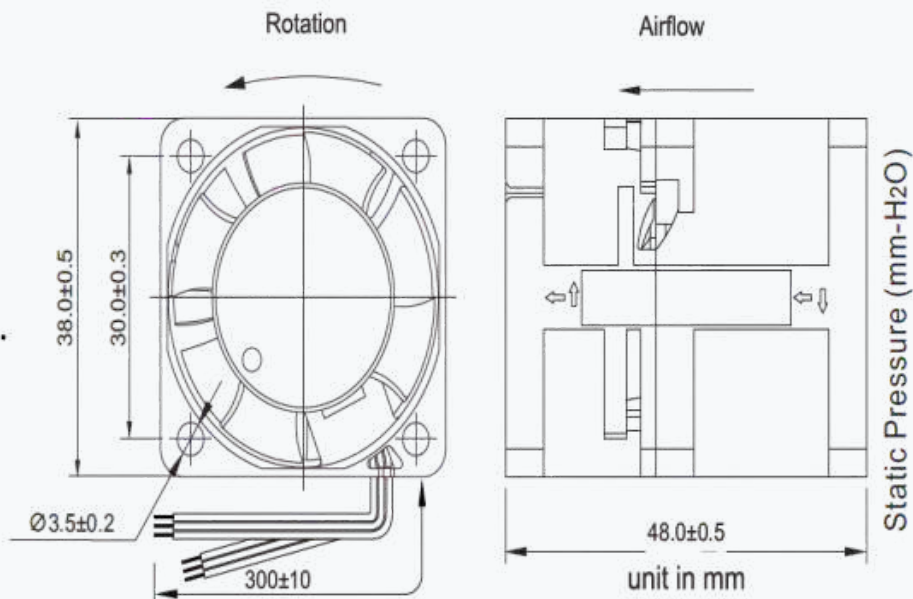
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

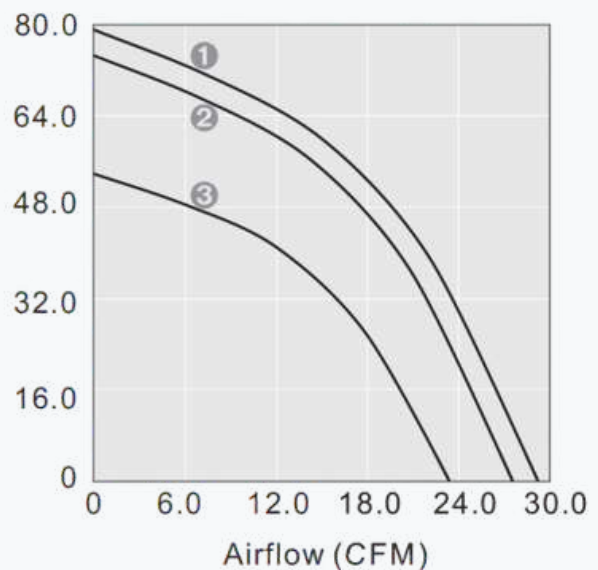
**Termination:** Lead wire 300±10mm

**Weight:** 72.4 g

#### Dimensions (mm)



#### Performance Curve



#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD123848HBL | 12            | 7.0– 13.2               | 0.45        | 5.4       | 20000       | 23.48          | 2.12                           | 59         |
| HYD123848XBL | 12            | 7.0– 13.2               | 0.7         | 8.4       | 23500       | 27.62          | 2.94                           | 62.5       |
| HYD123848UBL | 12            | 7.0– 13.2               | 0.83        | 9.6       | 25000       | 29.28          | 3.11                           | 64         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 40x40x10 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

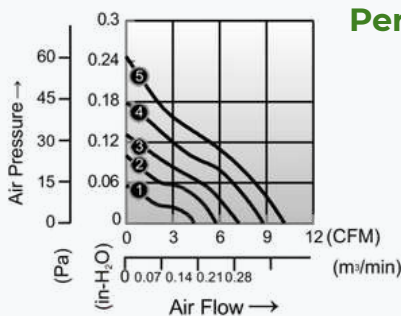
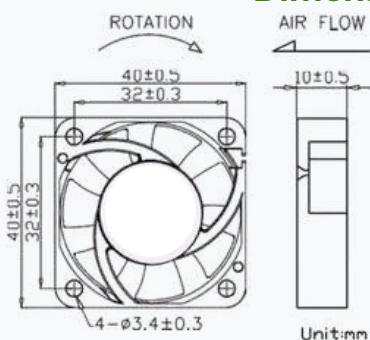
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 20 g

#### Dimensions (mm)



#### Performance Curve



#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD054010LB | 5             | 4.5– 5.5                | 0.14        | 4000        | 4.75           | 0.06                           | 21         |
| HYD054010MB | 5             | 4.5– 5.5                | 0.18        | 6000        | 7.24           | 0.11                           | 26         |
| HYD054010HB | 5             | 4.5– 5.5                | 0.29        | 8000        | 9.25           | 0.2                            | 35         |
| HYD124010MB | 12            | 7.0– 13.2               | 0.1         | 4000        | 4.75           | 0.06                           | 21         |
| HYD124010HB | 12            | 7.0– 13.2               | 0.11        | 6000        | 7.24           | 0.11                           | 26         |
| HYD124010XB | 12            | 7.0– 13.2               | 0.14        | 8000        | 9.25           | 0.2                            | 33         |
| HYD124010UB | 12            | 7.0– 13.2               | 0.18        | 10000       | 12.23          | 0.33                           | 39         |
| HYD244010LB | 24            | 14.0 – 26.4             | 0.06        | 4000        | 4.75           | 0.06                           | 21         |
| HYD244010MB | 24            | 14.0 – 26.4             | 0.09        | 8000        | 9.25           | 0.2                            | 33         |
| HYD244010HB | 24            | 14.0 – 26.4             | 0.09        | 10000       | 12.23          | 0.33                           | 39         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 40x40x15 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 25 g

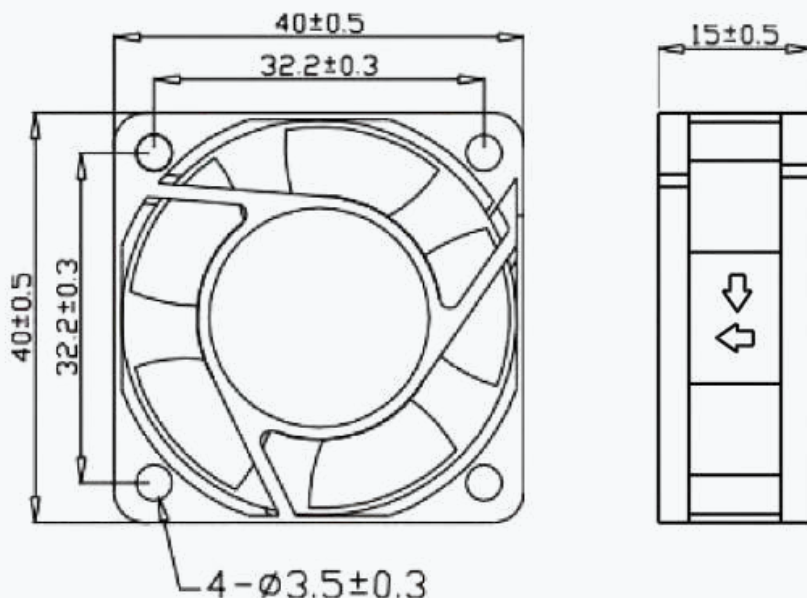


#### PLASTIC IMPELLER

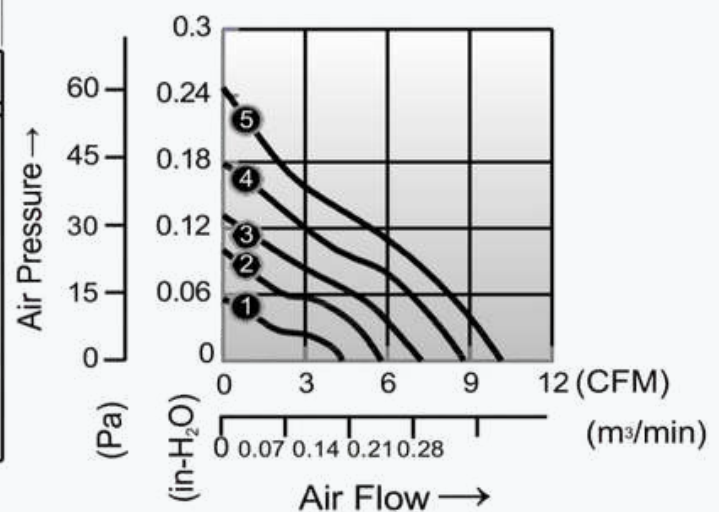
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD124015LB | 12            | 7.0 – 13.2              | 0.11        | 9000        | 10.62          | 0.31                           | 33.5       |
| HYD124015MB | 12            | 7.0 – 13.2              | 0.13        | 10300       | 11.8           | 0.38                           | 36         |
| HYD124015HB | 12            | 7.0 – 13.2              | 0.17        | 11000       | 12.98          | 0.46                           | 39.5       |

## DC FANS

### 40x40x15Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 25 g

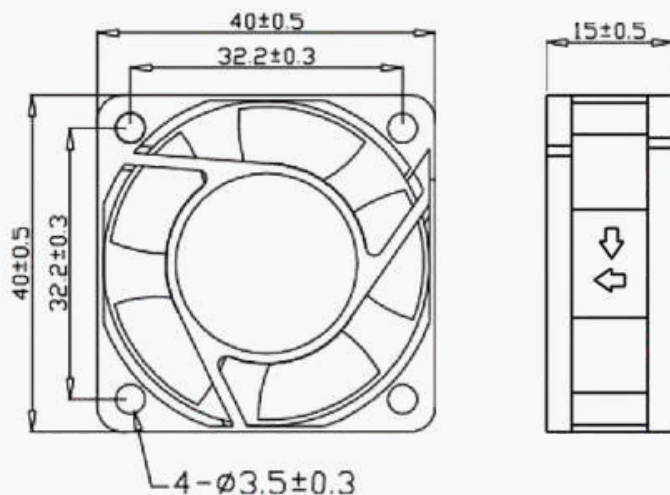


#### PLASTIC IMPELLER

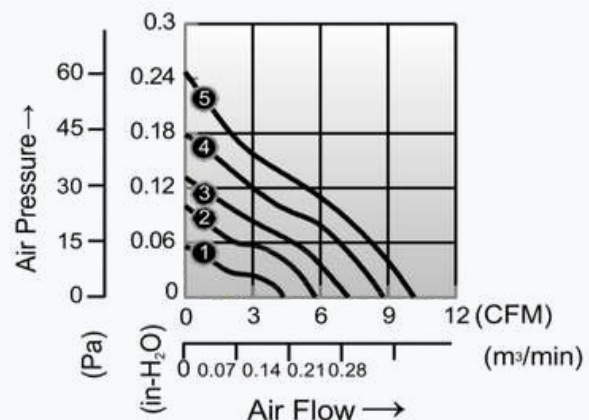
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD124015LBL | 12            | 7.0 – 13.2              | 0.09        | 1.08      | 5000        | 5.6            | 0.1                            | 24         |
| HYD124015MBL | 12            | 7.0 – 13.2              | 0.1         | 1.2       | 6000        | 6.6            | 0.14                           | 29.3       |
| HYD124015HBL | 12            | 7.0 – 13.2              | 0.13        | 1.56      | 7000        | 8.2            | 0.2                            | 33.2       |
| HYD124015XBL | 12            | 7.0 – 13.2              | 0.19        | 2.28      | 8300        | 9.4            | 0.28                           | 36.8       |
| HYD124015UBL | 12            | 7.0 – 13.2              | 0.24        | 2.88      | 9500        | 11.2           | 0.36                           | 40.8       |
| HYD124015VBL | 12            | 7.0 – 13.2              | 0.28        | 3.36      | 11000       | 14.6           | 0.57                           | 42.5       |

## DC FANS

### 40x40x20B mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 45 g

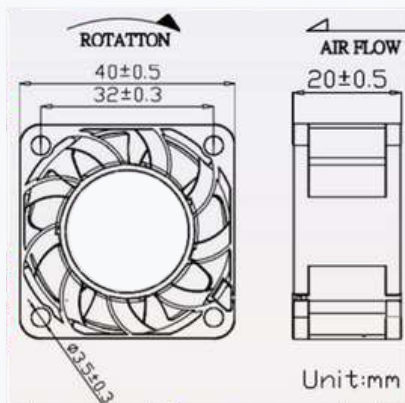


#### PLASTIC IMPELLER

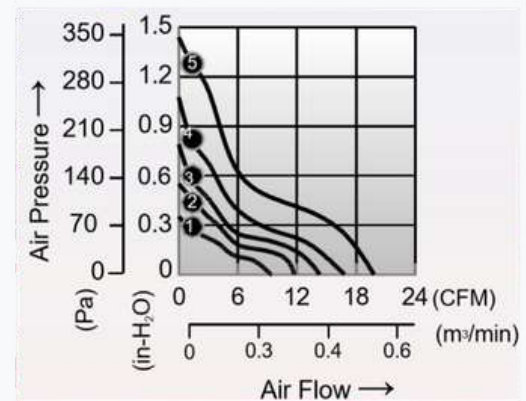
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYDB124020LB | 12            | 7.0 – 13.2              | 0.08        | 8000        | 9.4            | 0.35                           | 33         |
| HYDB124020MB | 12            | 7.0 – 13.2              | 0.11        | 10000       | 11.7           | 0.55                           | 40         |
| HYDB124020HB | 12            | 7.0 – 13.2              | 0.17        | 12000       | 14.3           | 0.79                           | 44         |
| HYDB124020XB | 12            | 7.0 – 13.2              | 0.25        | 14000       | 16.8           | 1.08                           | 49         |
| HYDB124020UB | 12            | 7.0 – 13.2              | 0.41        | 16000       | 19.8           | 1.44                           | 53         |
| HYDB244020HB | 24            | 14.0 – 26.4             | 0.14        | 12000       | 14.3           | 0.79                           | 44         |
| HYDB244020XB | 24            | 14.0 – 26.4             | 0.2         | 14000       | 16.8           | 1.08                           | 49         |
| HYDB244020UB | 24            | 14.0 – 26.4             | 0.25        | 16000       | 19.8           | 1.44                           | 53         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 40x40x28B mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 58 g

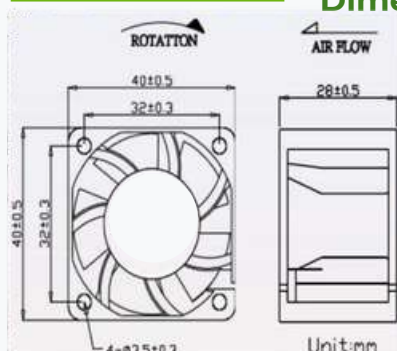


#### PLASTIC IMPELLER

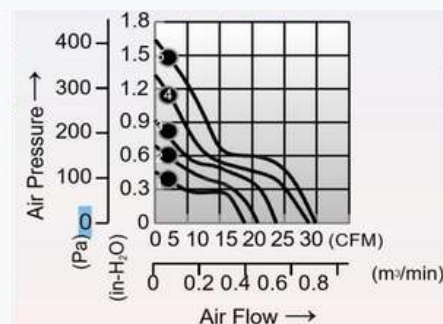
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYDB124028LB | 12            | 7.0 – 13.2              | 0.14        | 8000        | 13.8           | 0.46                           | 38         |
| HYDB124028MB | 12            | 7.0 – 13.2              | 0.26        | 9500        | 15.9           | 0.69                           | 44         |
| HYDB124028HB | 12            | 7.0 – 13.2              | 0.35        | 11000       | 18.7           | 0.92                           | 51         |
| HYDB124028XB | 12            | 7.0 – 13.2              | 0.55        | 13000       | 23.8           | 1.32                           | 54         |
| HYDB124028UB | 12            | 7.0 – 13.2              | 0.64        | 15000       | 24.8           | 1.64                           | 58         |
| HYDB244028LB | 24            | 14.0 – 26.4             | 0.1         | 8000        | 13.8           | 0.46                           | 38         |
| HYDB244028MB | 24            | 14.0 – 26.4             | 0.15        | 9500        | 15.9           | 0.69                           | 44         |
| HYDB244028HB | 24            | 14.0 – 26.4             | 0.2         | 11000       | 18.7           | 0.92                           | 51         |
| HYDB244028XB | 24            | 14.0 – 26.4             | 0.27        | 13000       | 23.8           | 1.32                           | 54         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 40x40x28D mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 50 g

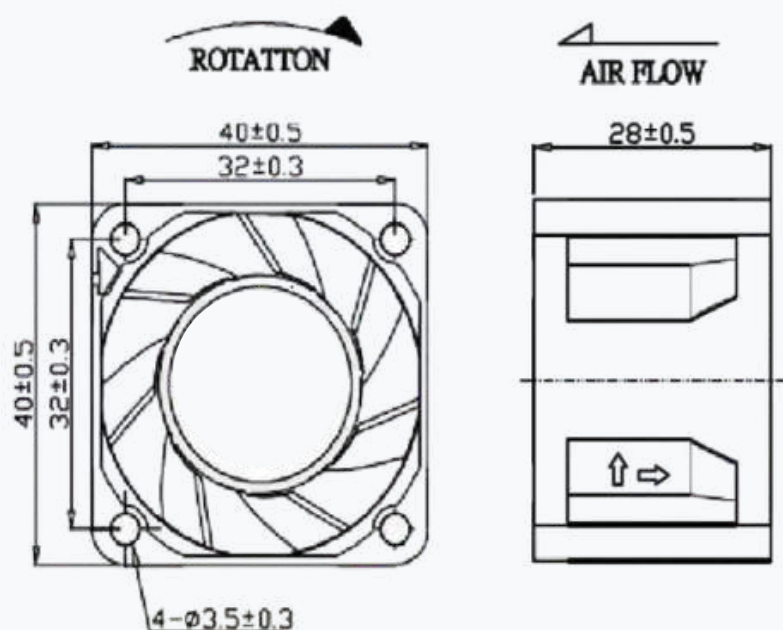


#### PLASTIC IMPELLER

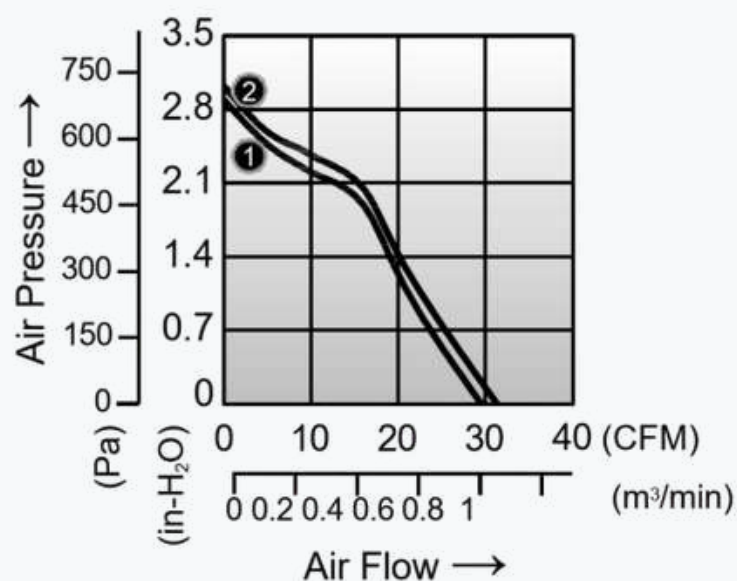
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYDD124028UB | 12            | 7.0 – 13.2              | 1.1         | 21000       | 0.83           | 2.89                           | 62         |
| HYDD124028WB | 12            | 7.0 – 13.2              | 1.4         | 23000       | 0.89           | 3.02                           | 64         |

## DC FANS

### 45x45x10 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 17 g

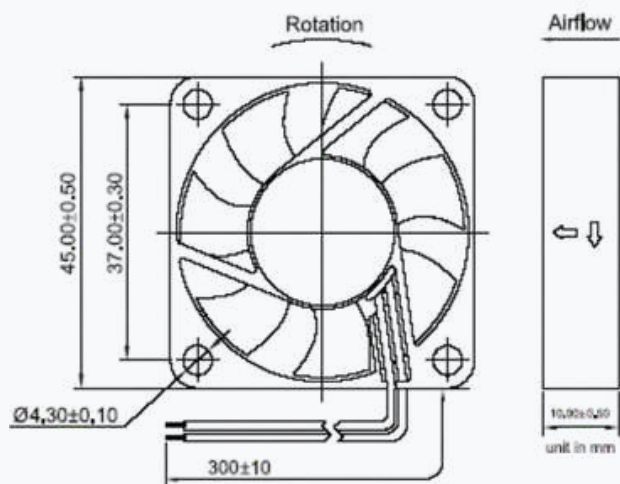


#### PLASTIC IMPELLER

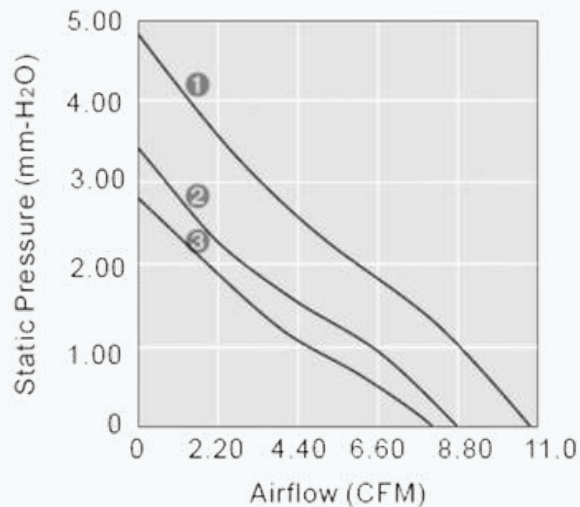
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H2O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|-------------------|------------|
| HYD054510LBL | 5             | 4.0 – 5.5               | 0.15        | 0.75      | 5100        | 8.49           | 0.12              | 29         |
| HYD054510MBL | 5             | 4.0 – 5.5               | 0.17        | 0.82      | 5500        | 8.7            | 0.13              | 31.5       |
| HYD054510HBL | 5             | 4.0 – 5.5               | 0.24        | 1.2       | 6500        | 10.3           | 0.19              | 37         |
| HYD124510LBL | 12            | 7.0 – 13.2              | 0.09        | 1.08      | 5100        | 8.49           | 0.12              | 29         |
| HYD124510MBL | 12            | 7.0 – 13.2              | 0.12        | 1.44      | 5500        | 8.7            | 0.13              | 31.5       |
| HYD124510HBL | 12            | 7.0 – 13.2              | 0.14        | 1.68      | 6500        | 10.3           | 0.19              | 37         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 50x50x10 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

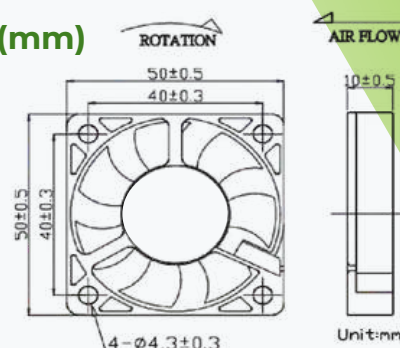
**Motor Structure:** Brushless DC Motor

**Weight:** 32 g

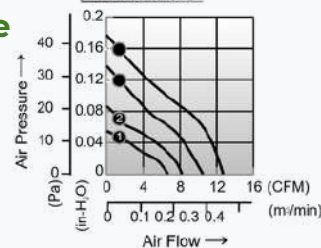


**PLASTIC IMPELLER**

#### Dimensions (mm)



#### Performance Curve



Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD055010JB | 5             | 4.5 – 5.5               | 0.08        | 3500        | 6.7            | 0.05                           | 17         |
| HYD055010LB | 5             | 4.5 – 5.5               | 0.12        | 4500        | 8.2            | 0.09                           | 23         |
| HYD055010MB | 5             | 4.5 – 5.5               | 0.16        | 5500        | 10.5           | 0.14                           | 29         |
| HYD055010HB | 5             | 4.5 – 5.5               | 0.2         | 6500        | 12.7           | 0.18                           | 34         |
| HYD125010JB | 12            | 7.0 – 13.2              | 0.05        | 3500        | 6.7            | 0.05                           | 17         |
| HYD125010LB | 12            | 7.0 – 13.2              | 0.07        | 4500        | 8.2            | 0.09                           | 23         |
| HYD125010MB | 12            | 7.0 – 13.2              | 0.08        | 5500        | 10.5           | 0.14                           | 29         |
| HYD125010HB | 12            | 7.0 – 13.2              | 0.1         | 6500        | 12.7           | 0.18                           | 34         |
| HYD245010JB | 24            | 14.0 – 26.4             | 0.06        | 3500        | 6.7            | 0.05                           | 17         |
| HYD245010LB | 24            | 14.0 – 26.4             | 0.07        | 4500        | 8.2            | 0.09                           | 23         |
| HYD245010MB | 24            | 14.0 – 26.4             | 0.08        | 5500        | 10.5           | 0.14                           | 29         |
| HYD245010HB | 24            | 14.0 – 26.4             | 0.09        | 6500        | 12.7           | 0.18                           | 34         |

## DC FANS

### 50x50x15 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

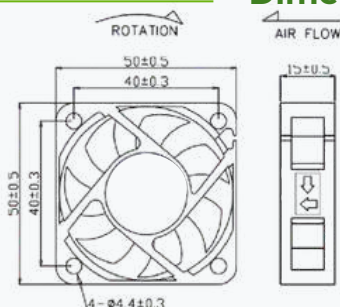
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 38 g

#### Dimensions (mm)

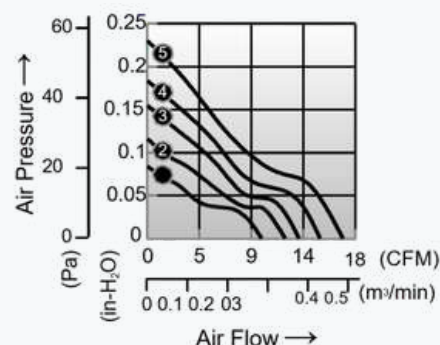


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYDC125015JB | 12            | 7.0 – 13.2              | 0.06        | 3600        | 9.91           | 0.08                           | 24         |
| HYDC125015LB | 12            | 7.0 – 13.2              | 0.07        | 4200        | 12.2           | 0.12                           | 27         |
| HYDC125015MB | 12            | 7.0 – 13.2              | 0.09        | 4800        | 13.2           | 0.16                           | 30         |
| HYDC125015HB | 12            | 7.0 – 13.2              | 0.11        | 5400        | 15             | 0.18                           | 32         |
| HYDC125015XB | 12            | 7.0 – 13.2              | 0.13        | 6000        | 17             | 0.23                           | 36         |
| HYDC245015JB | 24            | 14.0 – 26.4             | 0.04        | 3600        | 9.91           | 0.08                           | 24         |
| HYDC245015LB | 24            | 14.0 – 26.4             | 0.05        | 4200        | 12.2           | 0.12                           | 27         |
| HYDC245015MB | 24            | 14.0 – 26.4             | 0.06        | 4800        | 13.2           | 0.16                           | 30         |
| HYDC245015HB | 24            | 14.0 – 26.4             | 0.07        | 5400        | 15             | 0.18                           | 32         |
| HYDC245015XB | 24            | 14.0 – 26.4             | 0.08        | 6000        | 17             | 0.23                           | 36         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 50x50x20 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

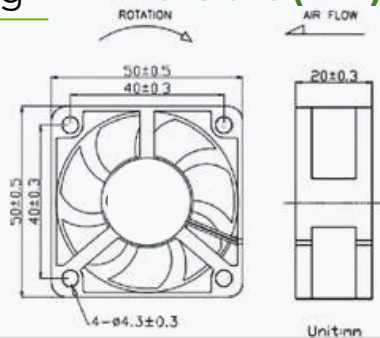
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 40 g

**Dimensions (mm)**

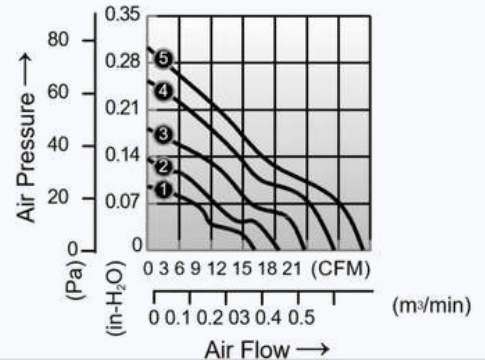


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD125020IB | 12            | 7.0 – 13.2              | 0.1         | 4000        | 10.1           | 0.1                            | 24         |
| HYD125020JB | 12            | 7.0 – 13.2              | 0.13        | 4800        | 12.7           | 0.14                           | 28         |
| HYD125020LB | 12            | 7.0 – 13.2              | 0.15        | 5600        | 14.8           | 0.18                           | 32         |
| HYD125020MB | 12            | 7.0 – 13.2              | 0.21        | 6400        | 17.6           | 0.25                           | 36         |
| HYD125020HB | 12            | 7.0 – 13.2              | 0.21        | 7000        | 20.3           | 0.3                            | 38         |
| HYD245020IB | 24            | 14.0 – 26.4             | 0.07        | 4000        | 10.1           | 0.1                            | 24         |
| HYD245020JB | 24            | 14.0 – 26.4             | 0.08        | 4800        | 12.7           | 0.14                           | 28         |
| HYD245020LB | 24            | 14.0 – 26.4             | 0.1         | 5600        | 14.8           | 0.18                           | 32         |
| HYD245020MB | 24            | 14.0 – 26.4             | 0.12        | 6400        | 17.6           | 0.25                           | 36         |
| HYD245020HB | 24            | 14.0 – 26.4             | 0.12        | 7000        | 20.3           | 0.3                            | 38         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 60x60x10 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

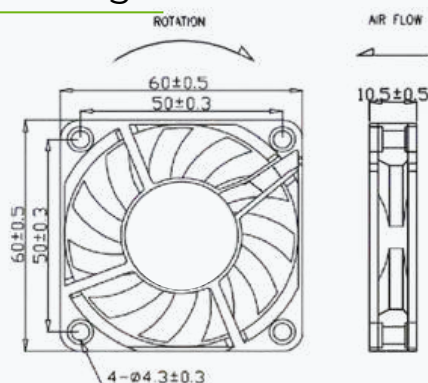
**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 37 g **Dimensions (mm)**

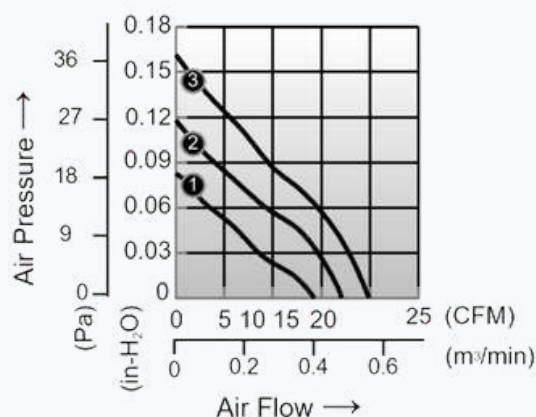


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD056010LB | 5             | 4.5 – 5.5               | 0.3         | 3500        | 14.3           | 0.08                           | 29         |
| HYD056010MB | 5             | 4.5 – 5.5               | 0.38        | 4200        | 17.1           | 0.12                           | 33         |
| HYD056010HB | 5             | 4.5 – 5.5               | 0.42        | 4900        | 19.9           | 0.16                           | 37         |
| HYD126010LB | 12            | 7.0 – 13.2              | 0.14        | 3500        | 14.3           | 0.08                           | 29         |
| HYD126010MB | 12            | 7.0 – 13.2              | 0.17        | 4200        | 17.1           | 0.12                           | 33         |
| HYD126010HB | 12            | 7.0 – 13.2              | 0.2         | 4900        | 19.9           | 0.16                           | 37         |
| HYD246010LB | 24            | 14.0 – 26.4             | 0.05        | 3500        | 14.3           | 0.08                           | 29         |
| HYD246010LB | 24            | 14.0 – 26.4             | 0.08        | 4200        | 17.1           | 0.12                           | 33         |
| HYD246010LB | 24            | 14.0 – 26.4             | 0.1         | 4900        | 19.9           | 0.16                           | 37         |

## DC FANS

### 60x60x10Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

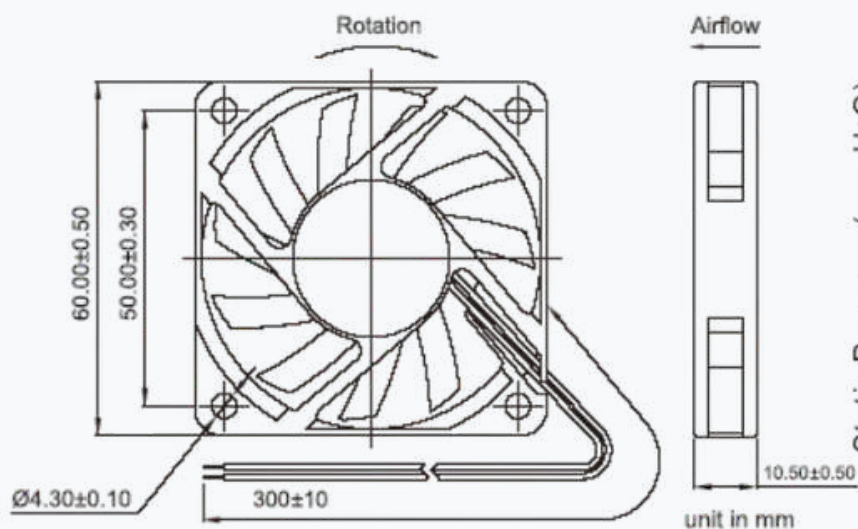
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 26 g

#### Dimensions (mm)

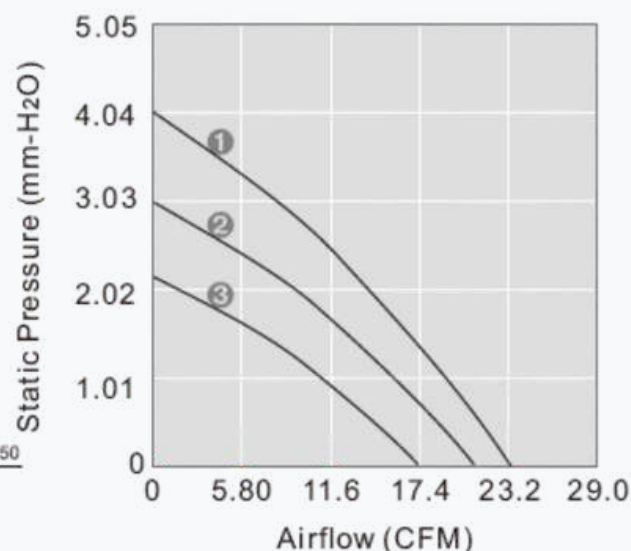


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD056010LBL | 5             | 4.0 – 5.5               | 0.26        | 1.3       | 3800        | 17.3           | 0.08                           | 33         |
| HYD126010LBL | 12            | 7.0 – 13.2              | 0.14        | 1.68      | 3800        | 17.3           | 0.08                           | 33         |
| HYD126010MBL | 12            | 7.0 – 13.2              | 0.17        | 2.04      | 4500        | 21             | 0.12                           | 38         |
| HYD126010HBL | 12            | 7.0 – 13.2              | 0.24        | 2.88      | 5200        | 23.3           | 0.16                           | 41         |

## DC FANS

### 60x60x15 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

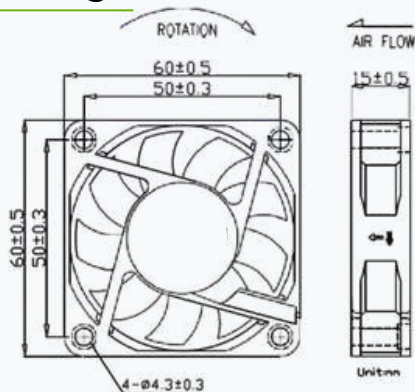
**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 44 g **Dimensions (mm)**

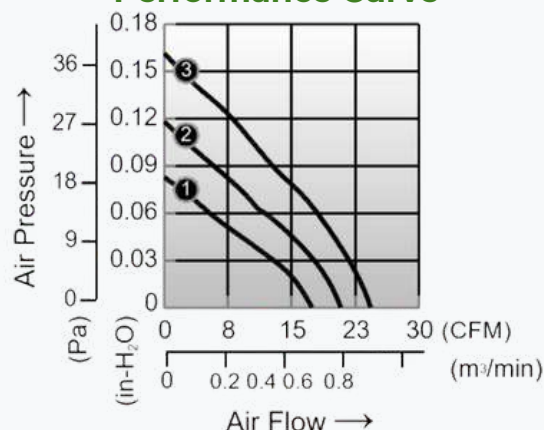


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD126015JB | 12            | 7.0 – 13.2              | 0.06        | 3000        | 15             | 0.09                           | 24         |
| HYD126015LB | 12            | 7.0 – 13.2              | 0.08        | 3500        | 19             | 0.14                           | 29         |
| HYD126015MB | 12            | 7.0 – 13.2              | 0.1         | 4000        | 21.7           | 0.16                           | 32         |
| HYD126015HB | 12            | 7.0 – 13.2              | 0.12        | 4500        | 23.1           | 0.18                           | 35         |
| HYD126015XB | 12            | 7.0 – 13.2              | 0.17        | 5000        | 26.5           | 0.23                           | 37         |
| HYD246015LB | 24            | 14.0 – 26.4             | 0.08        | 3500        | 19             | 0.14                           | 29         |
| HYD246015MB | 24            | 14.0 – 26.4             | 0.07        | 4000        | 21.7           | 0.16                           | 32         |
| HYD246015HB | 24            | 14.0 – 26.4             | 0.08        | 4500        | 23.1           | 0.18                           | 35         |
| HYD246015XB | 24            | 14.0 – 26.4             | 0.11        | 5000        | 26.5           | 0.23                           | 37         |

## DC FANS

### 60x60x20 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 50 g

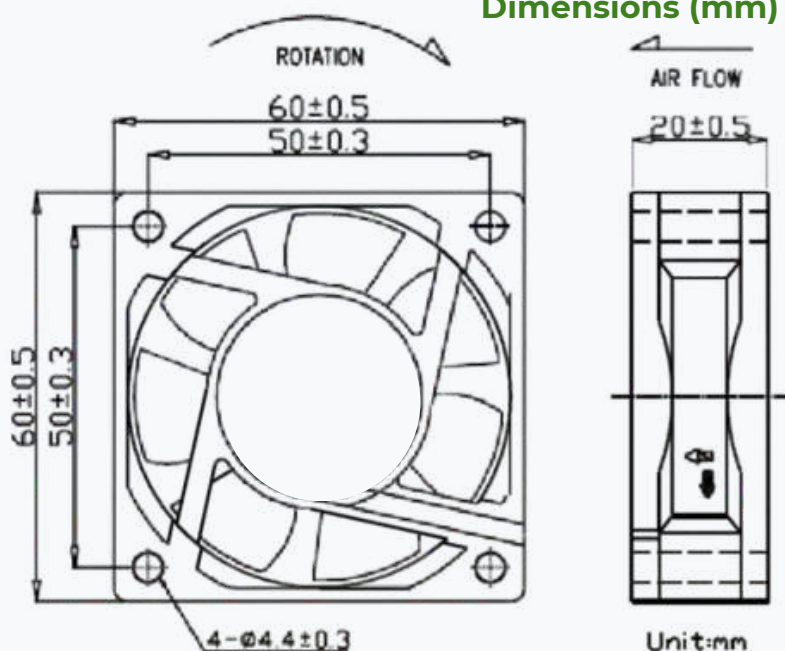


#### PLASTIC IMPELLER

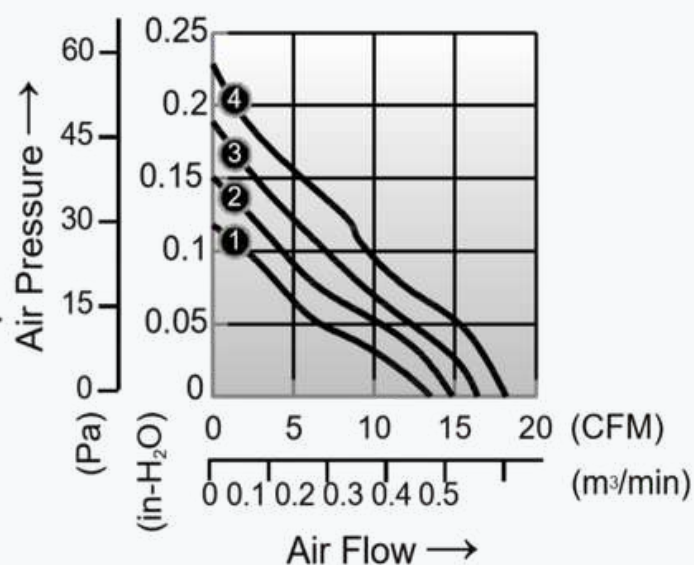
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD126015JB | 12            | 7.0 – 13.2              | 0.07        | 3200        | 13.5           | 0.12                           | 24         |
| HYD126020LB | 12            | 7.0 – 13.2              | 0.09        | 3600        | 14.8           | 0.15                           | 26         |
| HYD126020MB | 12            | 7.0 – 13.2              | 0.11        | 4000        | 16.4           | 0.19                           | 29         |
| HYD126020HB | 12            | 7.0 – 13.2              | 0.13        | 4400        | 18.1           | 0.23                           | 31         |
| HYD126020XB | 12            | 7.0 – 13.2              | 0.17        | 4800        | 19.6           | 0.27                           | 33         |

## DC FANS

### 60x60x20Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

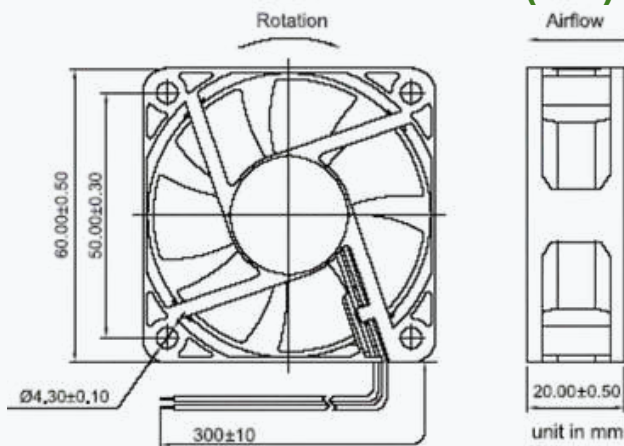
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 44 g

#### Dimensions (mm)

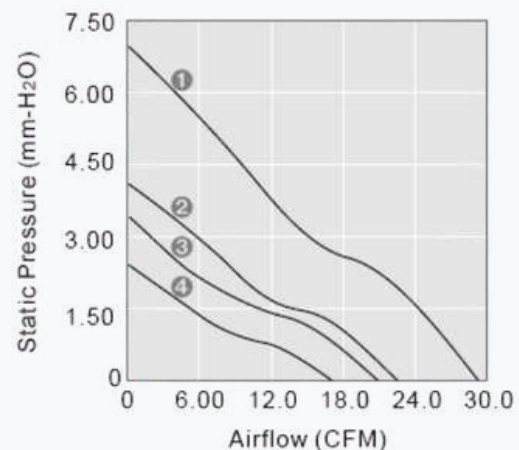


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD126020LBL | 12            | 7.0 – 13.2              | 0.08        | 0.96      | 3000        | 17             | 0.09                           | 26         |
| HYD126020MBL | 12            | 7.0 – 13.2              | 0.11        | 1.32      | 3600        | 20             | 0.13                           | 30         |
| HYD126020HBL | 12            | 7.0 – 13.2              | 0.16        | 1.92      | 4200        | 22.9           | 0.17                           | 35         |
| HYD126020XBL | 12            | 7.0 – 13.2              | 0.28        | 3.36      | 5300        | 29.1           | 0.28                           | 41         |
| HYD246020LBL | 24            | 12 – 26.4               | 0.04        | 0.96      | 3000        | 17             | 0.09                           | 26         |
| HYD246020MBL | 24            | 12 – 26.4               | 0.07        | 1.68      | 3600        | 20             | 0.13                           | 30         |
| HYD246020HBL | 24            | 12 – 26.4               | 0.08        | 1.92      | 4200        | 22.9           | 0.17                           | 35         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 60x60x25 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball / Sleeve Bearing

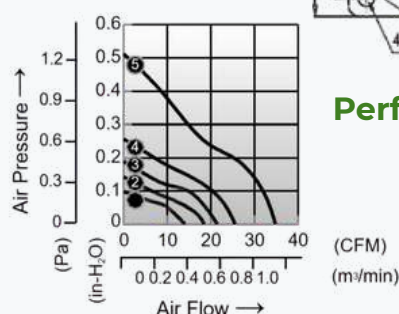
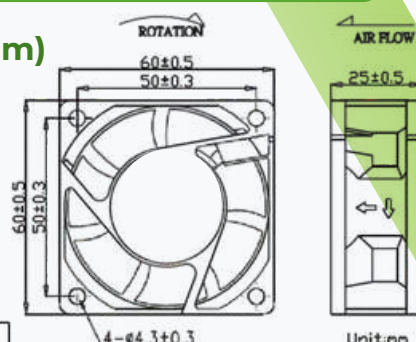
**Motor Structure:** Brushless DC Motor

**Weight:** 60 g



**PLASTIC IMPELLER**

#### Dimensions (mm)



#### Performance Curve

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD126025JB | 12            | 7.0 – 13.2              | 0.1         | 3100        | 14.1           | 0.1                            | 26         |
| HYD126025LB | 12            | 7.0 – 13.2              | 0.12        | 3600        | 18.5           | 0.14                           | 31         |
| HYD126025MB | 12            | 7.0 – 13.2              | 0.16        | 4250        | 21.5           | 0.19                           | 34         |
| HYD126025HB | 12            | 7.0 – 13.2              | 0.35        | 5000        | 25.6           | 0.26                           | 40         |
| HYD126025XB | 12            | 7.0 – 13.2              | 0.4         | 6800        | 34.8           | 0.51                           | 47         |
| HYD246025JB | 24            | 14.0 – 26.4             | 0.06        | 3100        | 14.1           | 0.1                            | 26         |
| HYD246025LB | 24            | 14.0 – 26.4             | 0.08        | 3600        | 18.5           | 0.14                           | 31         |
| HYD246025MB | 24            | 14.0 – 26.4             | 0.11        | 4250        | 21.5           | 0.19                           | 34         |
| HYD246025HB | 24            | 14.0 – 26.4             | 0.2         | 5000        | 25.6           | 0.26                           | 40         |
| HYD246025XB | 24            | 14.0 – 26.4             | 0.25        | 6800        | 34.8           | 0.51                           | 47         |
| HYD486025MB | 48            | 28.0 – 56.0             | 0.07        | 4250        | 21.5           | 0.19                           | 34         |
| HYD486025HB | 48            | 28.0 – 56.0             | 0.12        | 5000        | 25.6           | 0.26                           | 40         |

## DC FANS

### 60x60x25Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

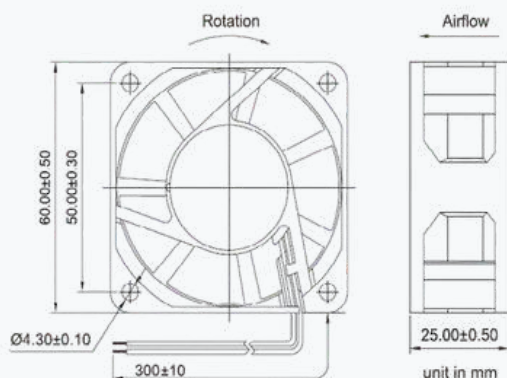
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 56 g

#### Dimensions (mm)

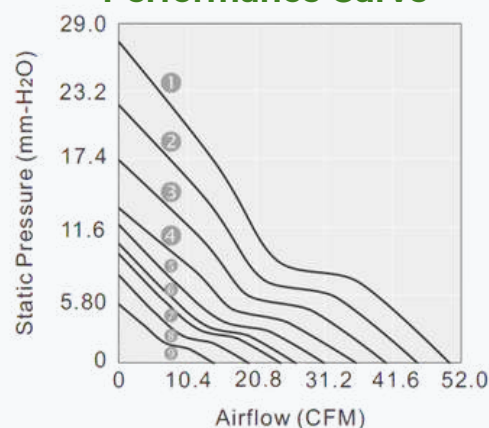


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H2O) | Noise (dB) |
|--------------|---------------|-------------------|-------------|-----------|-------------|----------------|-------------------|------------|
| HYD126025XBL | 12            | 7.0 – 13.2        | 0.42        | 5.04      | 8500        | 40.6           | 0.69              | 47         |
| HYD126025UBL | 12            | 7.0 – 13.2        | 0.63        | 7.56      | 9500        | 45.4           | 0.87              | 49.5       |
| HYD126025WBL | 12            | 7.0 – 13.2        | 0.9         | 10.8      | 10500       | 50.2           | 1.09              | 51.5       |
| HYD246025HBL | 24            | 12.0 – 26.4       | 0.075       | 1.8       | 5100        | 24.5           | 0.37              | 36         |
| HYD246025XBL | 24            | 12.0 – 26.4       | 0.11        | 2.64      | 6500        | 31.2           | 0.46              | 41         |
| HYD246025UBL | 24            | 12.0 – 26.4       | 0.41        | 9.84      | 10500       | 50.2           | 1.09              | 51.5       |
| HYD486025HBL | 48            | 24.0 – 56.0       | 0.055       | 2.64      | 5100        | 24.5           | 0.37              | 36         |
| HYD486025XBL | 48            | 24.0 – 56.0       | 0.08        | 3.84      | 6800        | 32.7           | 0.49              | 42         |
| HYD486025UBL | 48            | 24.0 – 56.0       | 0.24        | 11.52     | 10500       | 50.2           | 1.09              | 51.5       |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 60x60x38 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

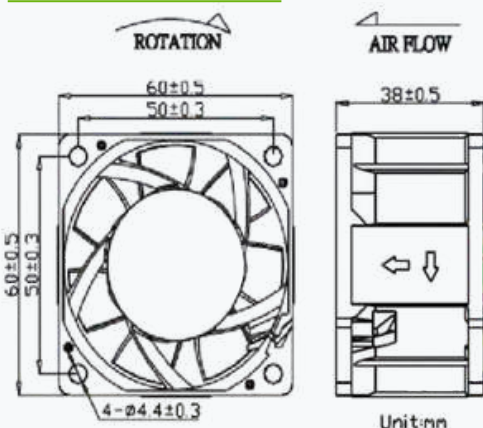
**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 145 g **Dimensions (mm)**

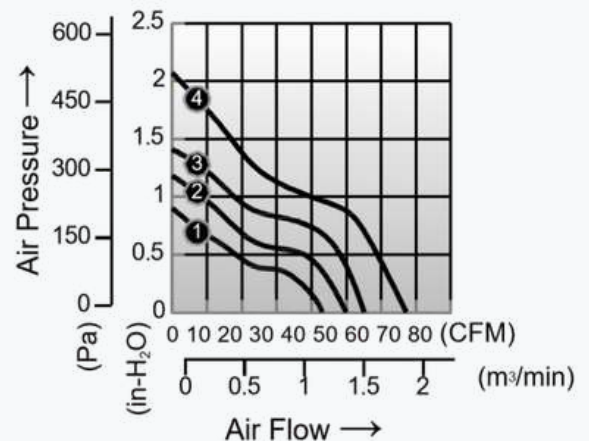


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD126038IB | 12            | 7.0 – 13.2              | 0.52        | 8000        | 43.1           | 0.9                            | 51         |
| HYD126038JB | 12            | 7.0 – 13.2              | 0.68        | 9000        | 50.8           | 1.19                           | 54         |
| HYD126038LB | 12            | 7.0 – 13.2              | 1           | 10000       | 55.2           | 1.41                           | 57         |
| HYD126038MB | 12            | 7.0 – 13.2              | 1.38        | 12000       | 67.3           | 2.07                           | 62         |
| HYD246038LB | 24            | 12.0 – 26.4             | 0.22        | 8000        | 43.1           | 0.9                            | 51         |
| HYD246038MB | 24            | 12.0 – 26.4             | 0.4         | 9000        | 50.8           | 1.19                           | 54         |
| HYD246038HB | 24            | 12.0 – 26.4             | 0.53        | 10000       | 55.2           | 1.41                           | 57         |
| HYD246038XB | 24            | 12.0 – 26.4             | 0.75        | 12000       | 67.3           | 2.07                           | 62         |

## DC FANS

### 60x60x56 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 180 g

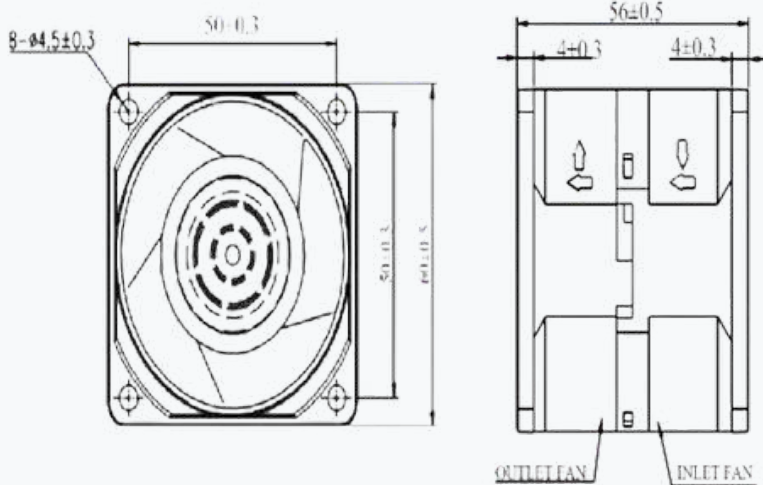


#### PLASTIC IMPELLER

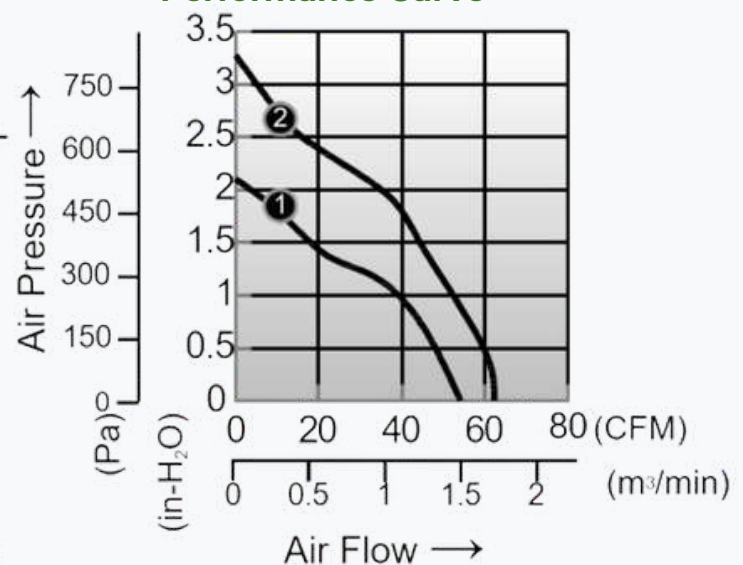
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD126056HB | 12            | 7.0 – 13.2              | 0.52        | 8000        | 43.1           | 0.9                            | 51         |
| HYD126056XB | 12            | 7.0 – 13.2              | 0.68        | 9000        | 50.8           | 1.19                           | 54         |

## DC FANS

### 70x70x10 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 35 g

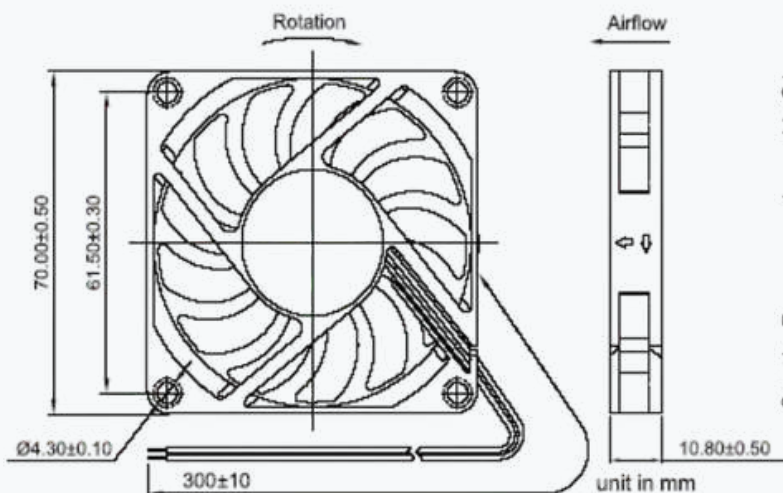


**PLASTIC IMPELLER**

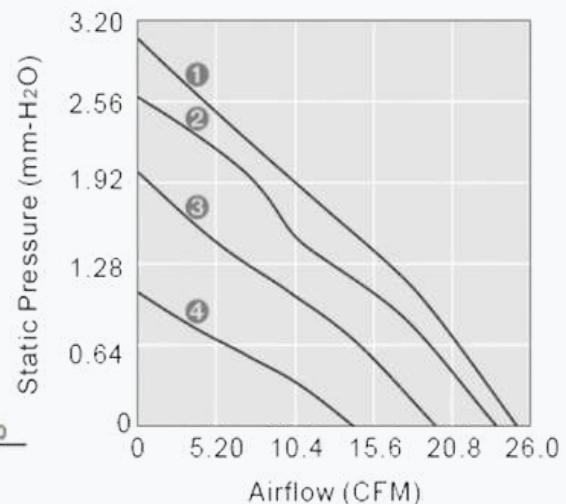
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H2O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|-------------------|------------|
| HYD057010LBL | 5             | 4.0 – 5.5               | 0.16        | 0.8       | 2300        | 14.9           | 0.09              | 20.5       |
| HYD057010MBL | 5             | 4.0 – 5.5               | 0.2         | 1         | 2700        | 17.5           | 0.11              | 24         |
| HYD057010HBL | 5             | 4.0 – 5.5               | 0.27        | 1.35      | 3100        | 20.1           | 0.12              | 27         |
| HYD127010LBL | 12            | 7.0 – 13.2              | 0.13        | 1.56      | 3700        | 23.9           | 0.15              | 31         |
| HYD127010MBL | 12            | 7.0 – 13.2              | 0.17        | 2.04      | 4300        | 27.8           | 0.17              | 34.5       |
| HYD127010HBL | 12            | 7.0 – 13.2              | 0.24        | 2.88      | 4800        | 31             | 0.19              | 37         |

## DC FANS

### 70x70x15 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 74 g

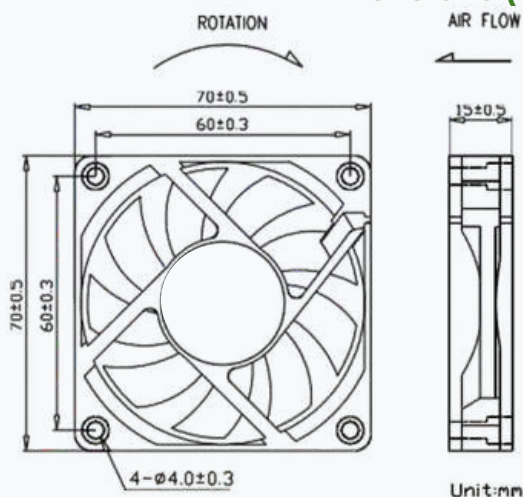


#### PLASTIC IMPELLER

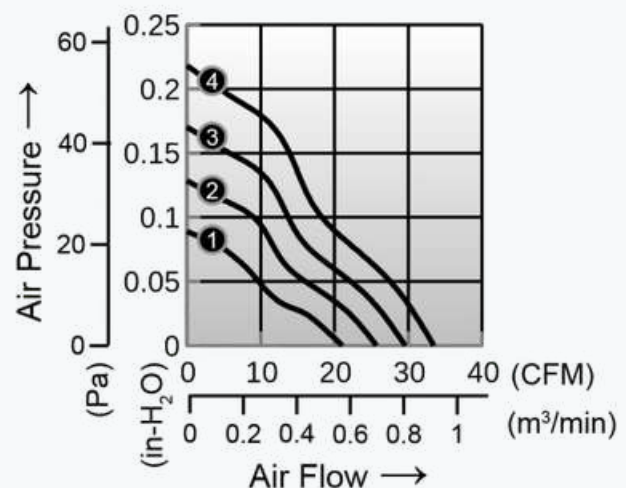
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD127015JB | 12            | 7.0 – 13.2              | 0.1         | 2800        | 21.1           | 0.09                           | 27         |
| HYD127015LB | 12            | 7.0 – 13.2              | 0.12        | 3300        | 25.7           | 0.13                           | 31         |
| HYD127015MB | 12            | 7.0 – 13.2              | 0.17        | 3800        | 29.6           | 0.17                           | 35         |
| HYD127015HB | 12            | 7.0 – 13.2              | 0.25        | 4300        | 33.5           | 0.22                           | 39         |
| HYD247015MB | 24            | 14.0 – 26.4             | 0.1         | 3800        | 29.6           | 0.17                           | 35         |
| HYD247015HB | 24            | 14.0 – 26.4             | 0.12        | 4300        | 33.5           | 0.22                           | 39         |

## DC FANS

### 70x70x25 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

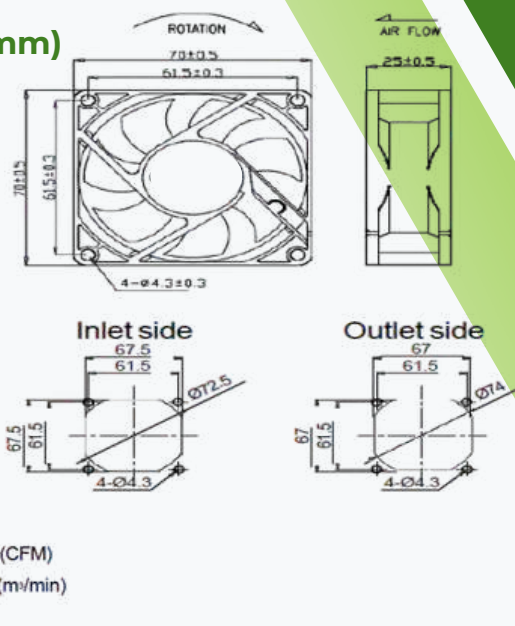
**Motor Structure:** Brushless DC Motor

**Weight:** 74 g

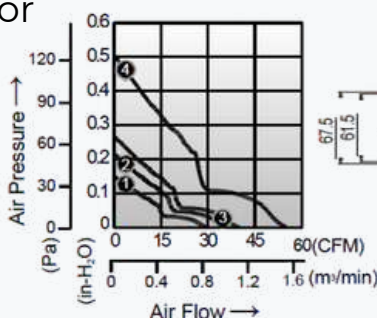


**PLASTIC IMPELLER**

#### Dimensions (mm)



#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD127025LB | 12            | 7.0 – 13.2              | 0.07        | 3000        | 30             | 0.15                           | 27         |
| HYD127025MB | 12            | 7.0 – 13.2              | 0.09        | 3600        | 35.6           | 0.22                           | 32         |
| HYD127025HB | 12            | 7.0 – 13.2              | 0.13        | 4000        | 39.9           | 0.27                           | 37         |
| HYD127025UB | 12            | 7.0 – 13.2              | 0.16        | 5500        | 54.8           | 0.5                            | 45         |
| HYD247025LB | 24            | 14.0 – 26.4             | 0.05        | 3000        | 30             | 0.15                           | 27         |
| HYD247025MB | 24            | 14.0 – 26.4             | 0.06        | 3600        | 35.6           | 0.22                           | 32         |
| HYD247025HB | 24            | 14.0 – 26.4             | 0.08        | 4000        | 39.9           | 0.27                           | 37         |
| HYD247025XB | 24            | 14.0 – 26.4             | 0.35        | 5500        | 54.8           | 0.5                            | 45         |
| HYD487025LB | 48            | 28.0 – 56.0             | 0.04        | 3000        | 30             | 0.15                           | 27         |
| HYD487025MB | 48            | 28.0 – 56.0             | 0.05        | 3600        | 35.6           | 0.22                           | 32         |
| HYD487025HB | 48            | 28.0 – 56.0             | 0.07        | 4000        | 39.9           | 0.27                           | 37         |

## DC FANS

### 80x80x15 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

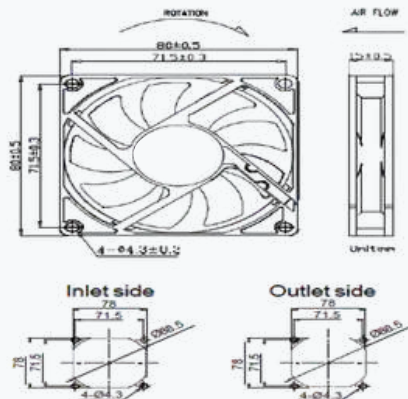
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 54 g

#### Dimensions (mm)

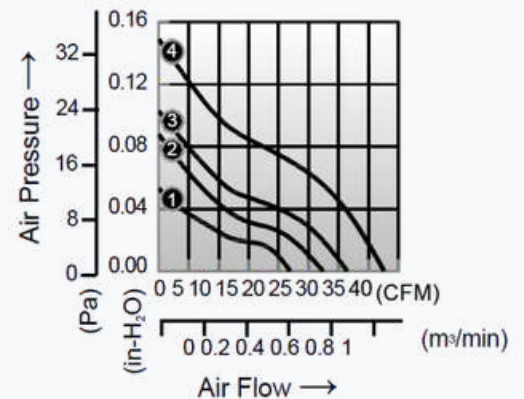


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD128015JB | 12            | 7.0 – 13.2              | 0.06        | 2400        | 22             | 0.05                           | 25         |
| HYD128015LB | 12            | 7.0 – 13.2              | 0.1         | 2700        | 27.5           | 0.09                           | 30         |
| HYD128015MB | 12            | 7.0 – 13.2              | 0.12        | 3100        | 31.5           | 0.1                            | 32         |
| HYD128015HB | 12            | 7.0 – 13.2              | 0.16        | 3600        | 37.6           | 0.15                           | 36         |
| HYD128015XB | 12            | 7.0 – 13.2              | 0.3         | 4500        | 45.2           | 0.21                           | 43         |
| HYD248015JB | 24            | 14.0 – 26.4             | 0.04        | 2400        | 22             | 0.05                           | 25         |
| HYD248015LB | 24            | 14.0 – 26.4             | 0.06        | 2700        | 27.5           | 0.09                           | 30         |
| HYD248015MB | 24            | 14.0 – 26.4             | 0.08        | 3100        | 31.5           | 0.1                            | 32         |
| HYD248015HB | 24            | 14.0 – 26.4             | 0.1         | 3600        | 37.6           | 0.15                           | 36         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 80x80x20 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

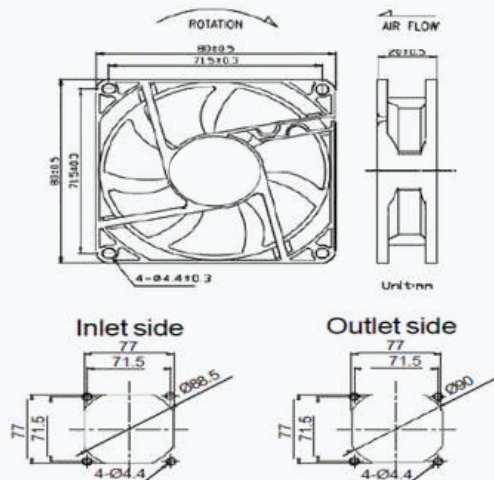
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 76 g

#### Dimensions (mm)

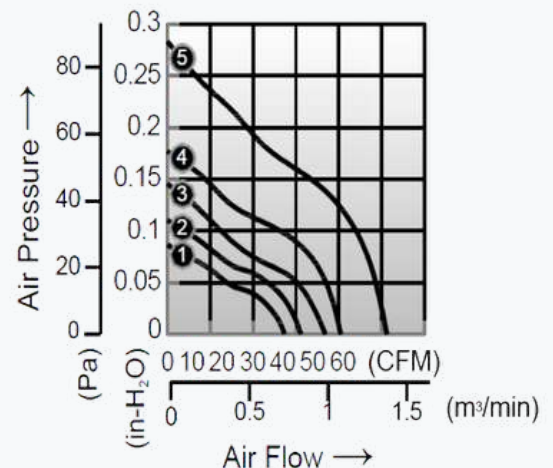


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD128020JB | 12            | 7.0 – 13.2              | 0.13        | 2400        | 27.4           | 0.09                           | 25         |
| HYD128020LB | 12            | 7.0 – 13.2              | 0.16        | 2700        | 31.2           | 0.11                           | 29         |
| HYD128020MB | 12            | 7.0 – 13.2              | 0.18        | 3100        | 36.9           | 0.15                           | 34         |
| HYD128020HB | 12            | 7.0 – 13.2              | 0.24        | 3400        | 40.5           | 0.18                           | 36         |
| HYD128020UB | 12            | 7.0 – 13.2              | 0.3         | 4300        | 51.2           | 0.28                           | 43         |
| HYD248020JB | 24            | 14.0 – 26.4             | 0.07        | 2400        | 27.4           | 0.09                           | 25         |
| HYD248020MB | 24            | 14.0 – 26.4             | 0.12        | 3100        | 36.9           | 0.15                           | 34         |
| HYD248020XB | 24            | 14.0 – 26.4             | 0.2         | 4300        | 51.2           | 0.28                           | 43         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 80x80x25 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

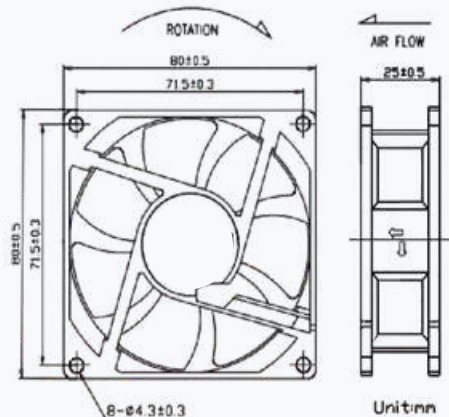
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 80 g

#### Dimensions (mm)

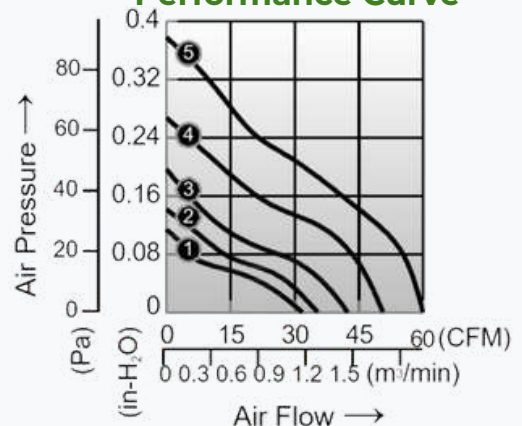


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD128025HB | 12            | 7.0 – 13.2              | 0.32        | 4300        | 50.5           | 0.27                           | 43         |
| HYD128025XB | 12            | 7.0 – 13.2              | 0.5         | 5000        | 60             | 0.38                           | 48         |
| HYD128025UB | 12            | 7.0 – 13.2              | 0.5         | 5700        | 74.3           | 0.38                           | 50         |
| HYD248025MB | 24            | 14.0 – 26.4             | 0.16        | 3600        | 42.4           | 0.2                            | 38         |
| HYD248025HB | 24            | 14.0 – 26.4             | 0.23        | 4300        | 50.5           | 0.27                           | 43         |
| HYD248025XB | 24            | 14.0 – 26.4             | 0.25        | 5000        | 60             | 0.38                           | 48         |
| HYD488025HB | 48            | 28.0 – 56.0             | 0.09        | 3600        | 42.4           | 0.2                            | 38         |
| HYD488025XB | 48            | 28.0 – 56.0             | 0.2         | 4300        | 50.5           | 0.27                           | 43         |
| HYD488025UB | 48            | 28.0 – 56.0             | 0.21        | 5000        | 60             | 0.38                           | 48         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 80x80x25D mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

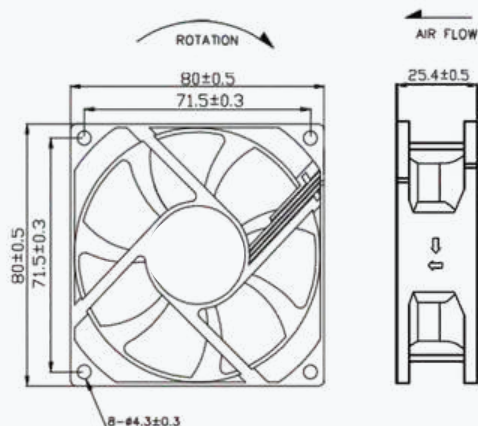
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 82 g

#### Dimensions (mm)

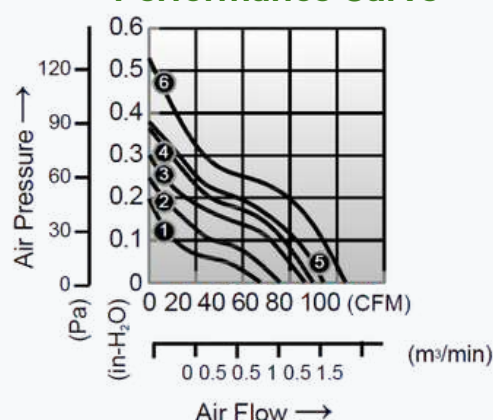


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYDD128025MB | 12            | 12.7 – 13.2             | 0.65        | 5000        | 69.9           | 0.26                           | 45         |
| HYDD128025HB | 12            | 12.7 – 13.2             | 0.81        | 5500        | 74.3           | 0.27                           | 48         |
| HYDD128025XB | 12            | 12.7 – 13.2             | 1           | 6500        | 83.6           | 0.38                           | 57         |
| HYDD248025MB | 24            | 14.0 – 26.4             | 0.32        | 5000        | 69.9           | 0.26                           | 45         |
| HYDD248025HB | 24            | 14.0 – 26.4             | 0.45        | 5500        | 74.3           | 0.27                           | 48         |
| HYDD248025XB | 24            | 14.0 – 26.4             | 0.51        | 6500        | 83.6           | 0.38                           | 57         |
| HYDD488025MB | 48            | 28.0 – 56.0             | 0.19        | 5000        | 69.9           | 0.26                           | 49         |
| HYDD488025HB | 48            | 28.0 – 56.0             | 0.29        | 5500        | 74.3           | 0.27                           | 51         |
| HYDD488025XB | 48            | 28.0 – 56.0             | 0.6         | 6500        | 83.6           | 0.38                           | 57         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 80x80x32 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

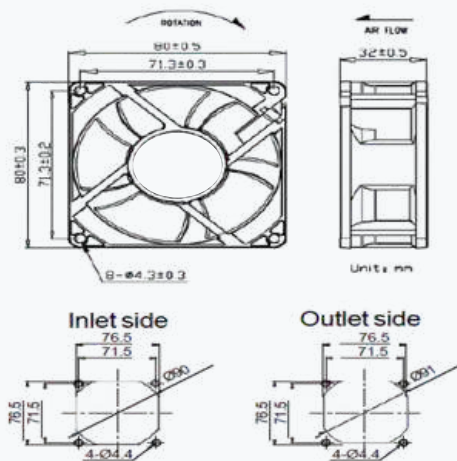
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 120 g

#### Dimensions (mm)

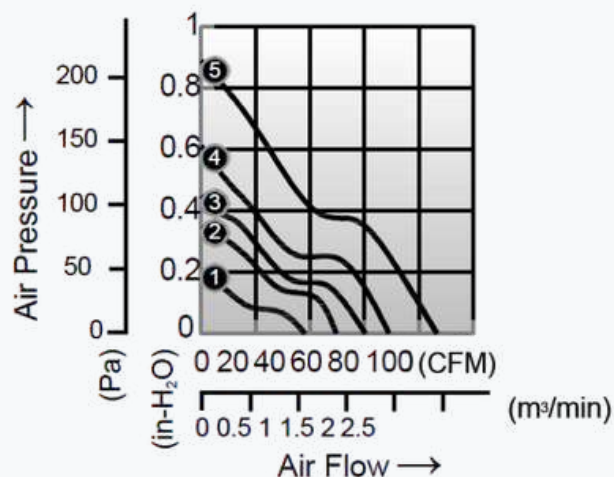


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD128032JB | 12            | 7.0 – 13.2              | 0.15        | 3000        | 38.2           | 0.2                            | 31         |
| HYD128032LB | 12            | 7.0 – 13.2              | 0.2         | 4000        | 49.7           | 0.35                           | 39         |
| HYD128032MB | 12            | 7.0 – 13.2              | 0.35        | 4800        | 60.4           | 0.45                           | 45         |
| HYD128032HB | 12            | 7.0 – 13.2              | 0.5         | 5500        | 69.1           | 0.61                           | 48         |
| HYD128032XB | 12            | 7.0 – 13.2              | 0.8         | 6800        | 86.7           | 0.89                           | 54         |
| HYD248032JB | 24            | 14.0 – 26.4             | 0.35        | 4800        | 60.4           | 0.45                           | 45         |
| HYD248032LB | 24            | 14.0 – 26.4             | 0.5         | 5500        | 69.1           | 0.61                           | 48         |
| HYD248032MB | 24            | 14.0 – 26.4             | 0.75        | 7000        | 89.2           | 0.98                           | 55         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 80x80x32Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

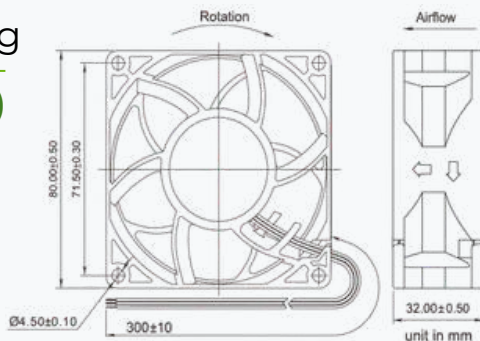
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 150.6 g

#### Dimensions (mm)

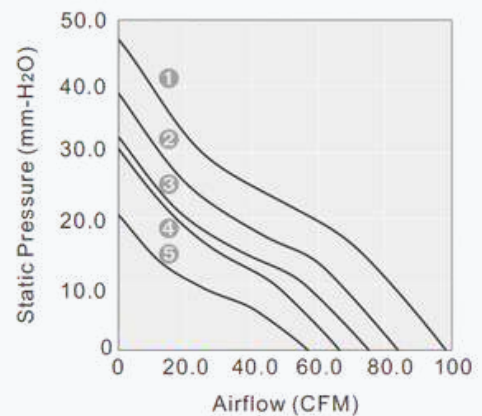


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD128032LBL | 12            | 7.0 – 13.2              | 0.35        | 4.2       | 6600        | 57.3           | 0.8                            | 49.6       |
| HYD128032MBL | 12            | 7.0 – 13.2              | 0.45        | 5.4       | 7600        | 66.8           | 1.2                            | 53.5       |
| HYD128032HBL | 12            | 7.0 – 13.2              | 0.65        | 7.8       | 8600        | 75.4           | 1.26                           | 56.7       |
| HYD128032XBL | 12            | 7.0 – 13.2              | 0.8         | 9.6       | 9600        | 85             | 1.52                           | 58.6       |
| HYD128032UBL | 12            | 7.0 – 13.2              | 1.24        | 14.88     | 11000       | 98.6           | 1.85                           | 61.9       |
| HYD248032LBL | 24            | 12.0 – 26.4             | 0.18        | 4.32      | 6600        | 57.3           | 0.8                            | 49.6       |
| HYD248032MBL | 24            | 12.0 – 26.4             | 0.26        | 6.24      | 7600        | 66.8           | 1.2                            | 53.5       |
| HYD248032HBL | 24            | 12.0 – 26.4             | 0.34        | 8.16      | 8600        | 75.4           | 1.26                           | 56.7       |
| HYD248032XBL | 24            | 12.0 – 26.4             | 0.42        | 10.08     | 9600        | 85             | 1.52                           | 58.6       |
| HYD248032UBL | 24            | 12.0 – 26.4             | 0.7         | 16.8      | 11000       | 98.6           | 1.85                           | 61.9       |

## DC FANS

### 80x80x38 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

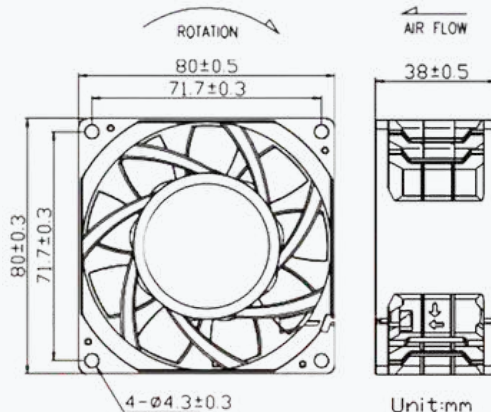
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 120 g

#### Dimensions (mm)

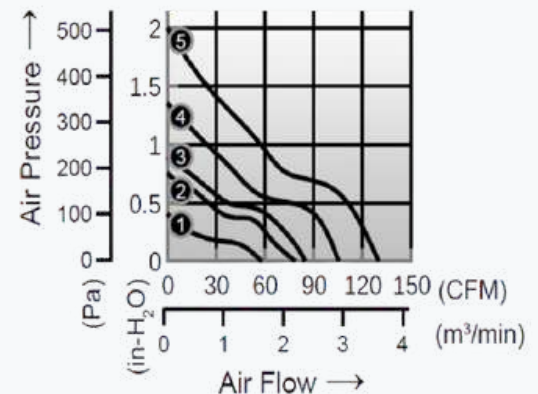


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD128038HB | 12            | 7.0 – 13.2              | 1           | 6100        | 84.8           | 0.89                           | 56         |
| HYD128038XB | 12            | 7.0 – 13.2              | 1.5         | 7500        | 105.5          | 1.36                           | 62         |
| HYD128038UB | 12            | 7.0 – 13.2              | 2.7         | 9000        | 130            | 2                              | 66         |
| HYD248038HB | 24            | 14.0 – 26.4             | 0.45        | 6100        | 84.8           | 0.89                           | 56         |
| HYD248038XB | 24            | 14.0 – 26.4             | 0.82        | 7500        | 105.5          | 1.36                           | 62         |
| HYD248038UB | 24            | 14.0 – 26.4             | 1.4         | 9000        | 130            | 2                              | 66         |
| HYD488038HB | 48            | 28.0 – 56.0             | 0.51        | 6100        | 84.8           | 0.89                           | 56         |
| HYD488038XB | 48            | 28.0 – 56.0             | 0.58        | 7500        | 105.5          | 1.36                           | 62         |
| HYD488038UB | 48            | 28.0 – 56.0             | 0.9         | 9000        | 130            | 2                              | 66         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 80x80x56 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

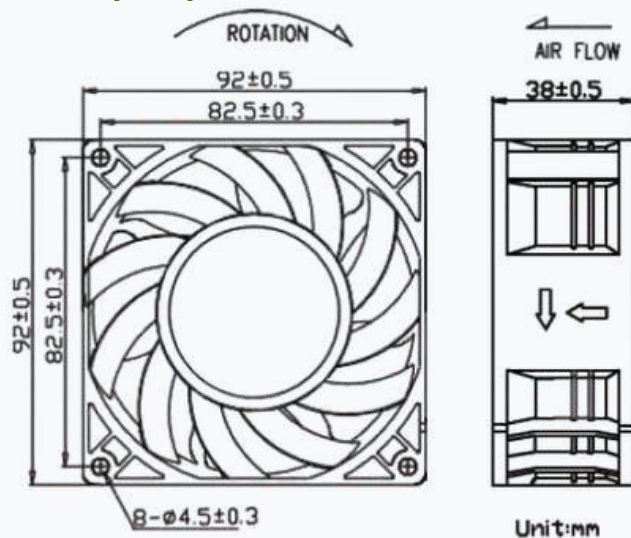
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 308 g

#### Dimensions (mm)

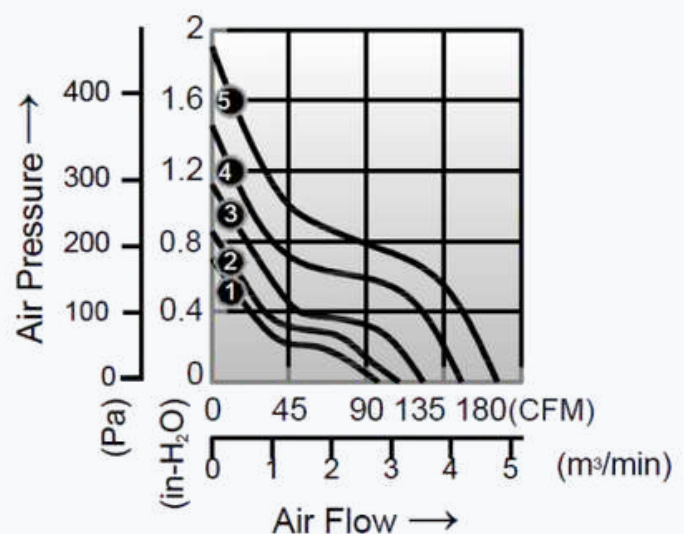


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD128056MB | 12            | 7.0 – 13.2              | 1.1         | 8000        | 54.1           | 2.1                            | 64         |
| HYD128056HB | 12            | 7.0 – 13.2              | 1.3         | 9600        | 62.2           | 2.45                           | 68         |

## DC FANS

### 92x92x25C mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

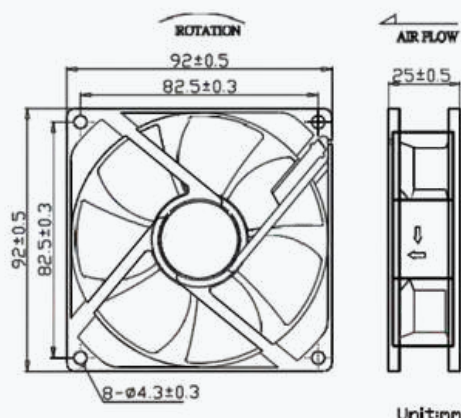
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** FMB / Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 89 g

#### Dimensions (mm)

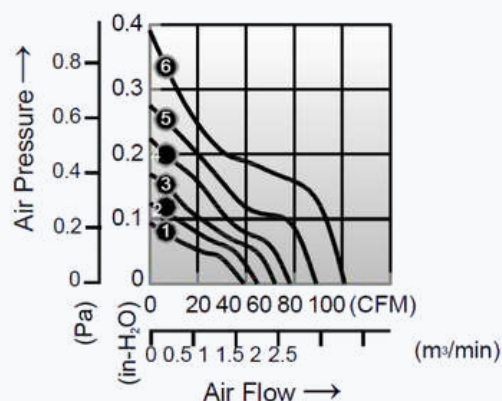


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYDC129225HB | 12            | 7.0 – 13.2              | 0.2         | 3200        | 58.3           | 0.22                           | 38         |
| HYDC129225XB | 12            | 7.0 – 13.2              | 0.3         | 3800        | 69.2           | 0.28                           | 45         |
| HYDC120925UB | 12            | 7.0 – 13.2              | 0.41        | 4500        | 81             | 0.4                            | 49         |
| HYDC240925MB | 24            | 14.0 – 26.4             | 0.13        | 2850        | 52.1           | 0.17                           | 34         |
| HYDC240925HB | 24            | 14.0 – 26.4             | 0.15        | 3200        | 58.3           | 0.22                           | 38         |
| HYDC240925XB | 24            | 14.0 – 26.4             | 0.2         | 3800        | 69.2           | 0.28                           | 45         |
| HYDC480925MB | 48            | 28.0 – 56.0             | 0.08        | 2850        | 52.1           | 0.17                           | 34         |
| HYDC480925HB | 48            | 28.0 – 56.0             | 0.12        | 3200        | 58.3           | 0.22                           | 38         |
| HYDC480925XB | 48            | 28.0 – 56.0             | 0.15        | 3800        | 69.2           | 0.28                           | 45         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 92x92x25Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

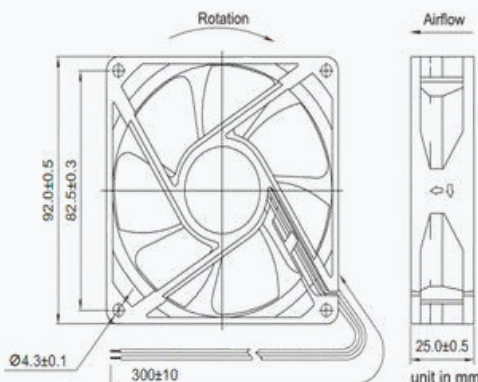
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 117.6 g

#### Dimensions (mm)

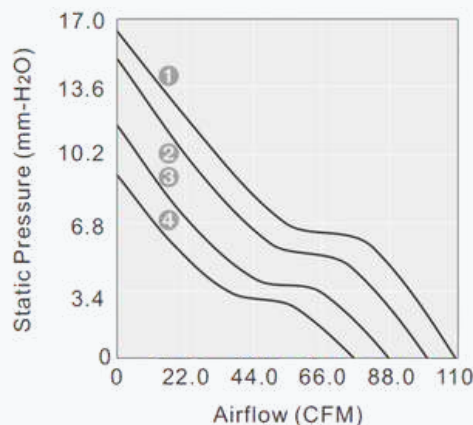


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD129225MBL | 12            | 7.0 – 13.2              | 0.45        | 5.4       | 4300        | 87.8           | 0.46                           | 47         |
| HYD129225HBL | 12            | 7.0 – 13.2              | 0.65        | 7.8       | 4800        | 100.3          | 0.6                            | 49         |
| HYD129225XBL | 12            | 7.0 – 13.2              | 0.9         | 10.8      | 5300        | 109.3          | 0.65                           | 51         |
| HYD249225MBL | 24            | 12.0 – 26.4             | 0.26        | 6.24      | 4300        | 87.8           | 0.46                           | 47         |
| HYD249225HBL | 24            | 12.0 – 26.4             | 0.35        | 8.4       | 4800        | 100.3          | 0.59                           | 49         |
| HYD249225XBL | 24            | 12.0 – 26.4             | 0.45        | 10.8      | 5300        | 109.3          | 0.65                           | 51         |
| HYD489225MBL | 48            | 24.0 – 56.0             | 0.13        | 6.24      | 4300        | 87.8           | 0.46                           | 47         |
| HYD489225HBL | 48            | 24.0 – 56.0             | 0.17        | 8.16      | 4800        | 100.3          | 0.59                           | 49         |
| HYD489225XBL | 48            | 24.0 – 56.0             | 0.22        | 10.6      | 5300        | 109.3          | 0.65                           | 51         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 92x92x38 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

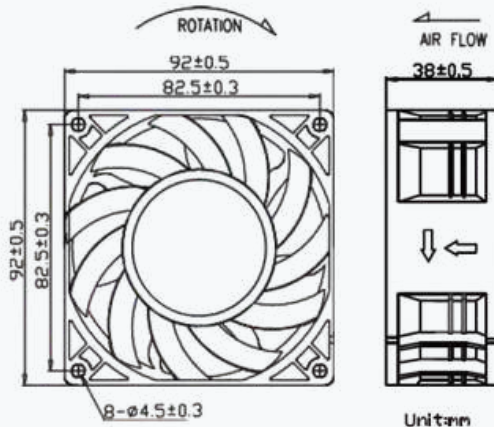
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 200 g

#### Dimensions (mm)

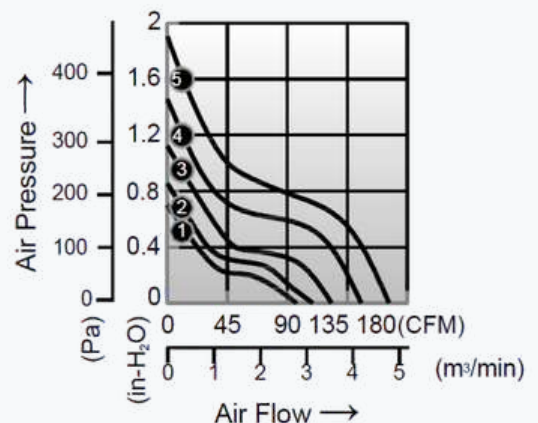


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD129238HB | 12            | 7.0 – 13.2              | 1.2         | 6000        | 123.4          | 1.12                           | 64         |
| HYD129238XB | 12            | 7.0 – 13.2              | 2.5         | 7000        | 145.6          | 1.46                           | 67         |
| HYD129238UB | 12            | 7.0 – 13.2              | 2.95        | 8000        | 166.4          | 1.91                           | 72         |
| HYD249238HB | 24            | 14.0 – 26.4             | 0.76        | 6000        | 123.4          | 1.12                           | 64         |
| HYD249238XB | 24            | 14.0 – 26.4             | 1.1         | 7000        | 145.6          | 1.46                           | 67         |
| HYD249238UB | 24            | 14.0 – 26.4             | 1.7         | 8000        | 166.4          | 1.91                           | 72         |
| HYD489238HB | 48            | 28.0 – 56.0             | 0.41        | 6000        | 123.4          | 1.12                           | 64         |
| HYD489238XB | 48            | 28.0 – 56.0             | 0.72        | 7000        | 145.6          | 1.46                           | 67         |
| HYD489238UB | 48            | 28.0 – 56.0             | 0.94        | 8000        | 166.4          | 1.91                           | 72         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 92x92x38Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

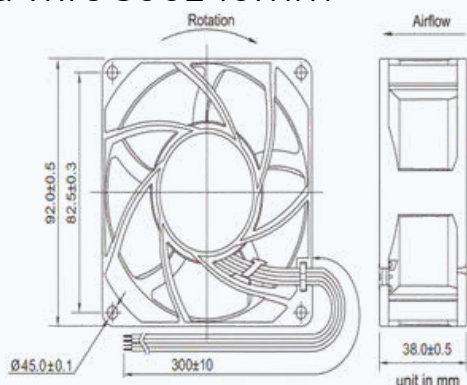
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 233 g

#### Dimensions (mm)

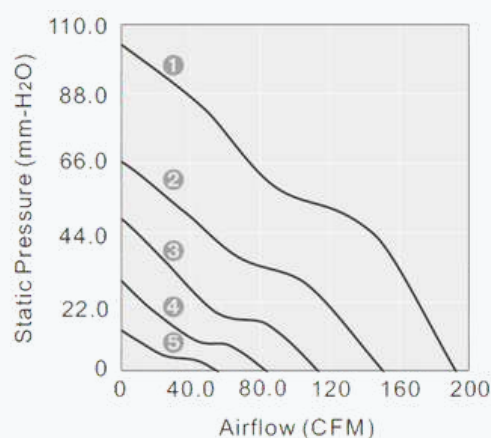


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD129238HBL | 12            | 7.0 – 14.0              | 1.1         | 13.2      | 8000        | 113.6          | 1.89                           | 57.5       |
| HYD129238XBL | 12            | 7.0 – 14.0              | 2.4         | 28.8      | 10500       | 150.9          | 2.63                           | 65         |
| HYD129238UBL | 12            | 7.0 – 14.0              | 4.4         | 52.8      | 12500       | 184.5          | 3.11                           | 67.5       |
| HYD249238HBL | 24            | 10.0 – 30.0             | 0.54        | 12.96     | 8000        | 113.6          | 1.93                           | 57.5       |
| HYD249238XBL | 24            | 10.0 – 30.0             | 1.05        | 25.2      | 10500       | 150.9          | 2.63                           | 65         |
| HYD249238UBL | 24            | 10.0 – 30.0             | 2.2         | 52.8      | 13500       | 192.9          | 4.08                           | 68.5       |
| HYD489238HBL | 48            | 24.0 – 75.0             | 0.28        | 13.44     | 8000        | 113.6          | 1.93                           | 57.5       |
| HYD489238XBL | 48            | 24.0 – 75.0             | 0.54        | 25.92     | 10500       | 150.9          | 2.63                           | 65         |
| HYD489238UBL | 48            | 24.0 – 75.0             | 1.1         | 52.8      | 13500       | 192.9          | 4.08                           | 68.5       |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 120x120x25C mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

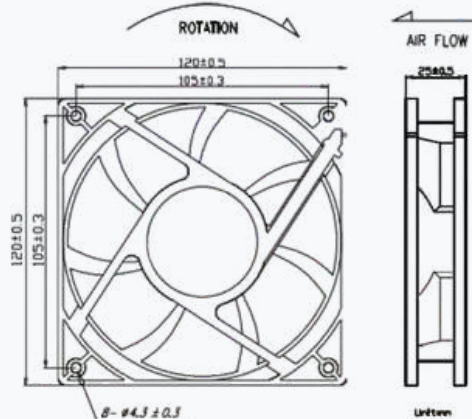
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 230 g

**Dimensions (mm)**

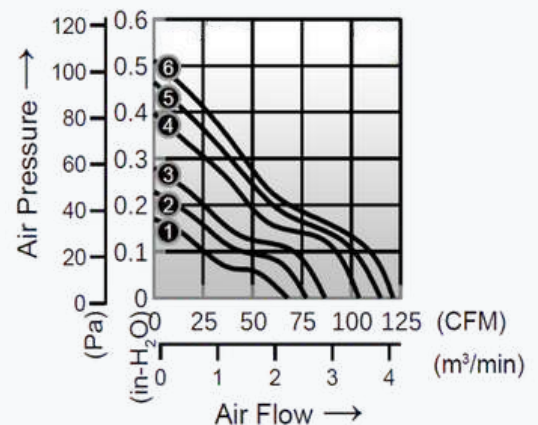


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYDC121225HB | 12            | 7.0 – 13.2              | 0.5         | 3400        | 103.9          | 0.4                            | 47         |
| HYDC121225XB | 12            | 7.0 – 13.2              | 0.62        | 3700        | 114.8          | 0.46                           | 50         |
| HYDC121225UB | 12            | 7.0 – 13.2              | 0.65        | 4000        | 121.1          | 0.51                           | 52         |
| HYDC241225HB | 24            | 14.0 – 26.4             | 0.28        | 3400        | 103.9          | 0.4                            | 47         |
| HYDC241225XB | 24            | 14.0 – 26.4             | 0.3         | 3700        | 114.8          | 0.46                           | 50         |
| HYDC241225UB | 24            | 14.0 – 26.4             | 0.4         | 4000        | 121.1          | 0.51                           | 52         |
| HYDC481225LB | 48            | 28.0 – 56.0             | 0.1         | 2500        | 77.2           | 0.23                           | 39         |
| HYDC481225MB | 48            | 28.0 – 56.0             | 0.11        | 2800        | 86.7           | 0.28                           | 42         |
| HYDC481225HB | 48            | 28.0 – 56.0             | 0.12        | 3400        | 103.9          | 0.4                            | 47         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 120x120x25Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

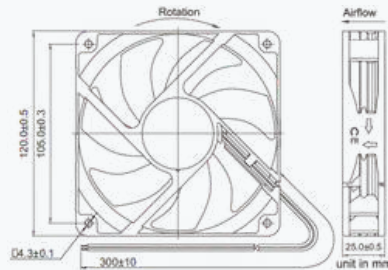
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 160 g

**Dimensions (mm)**

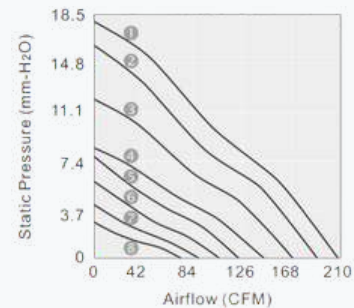


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD121225HBL | 12            | 7.0 – 13.2              | 0.46        | 5.52      | 2600        | 106.1          | 0.23                           | 44         |
| HYD121225XBL | 12            | 7.0 – 13.2              | 0.95        | 11.4      | 4100        | 169.5          | 0.47                           | 55         |
| HYD121225UBL | 12            | 7.0 – 13.2              | 1.3         | 15.6      | 4600        | 190.2          | 0.64                           | 57.5       |
| HYD121225WBL | 12            | 7.0 – 13.2              | 1.9         | 22.8      | 5200        | 208.4          | 0.7                            | 59.5       |
| HYD241225HBL | 24            | 12.0 – 26.4             | 0.28        | 6.72      | 2600        | 106.1          | 0.23                           | 44         |
| HYD241225XBL | 24            | 12.0 – 26.4             | 0.38        | 9.12      | 3500        | 144.6          | 0.33                           | 51.5       |
| HYD241225UBL | 24            | 12.0 – 26.4             | 0.66        | 15.84     | 4600        | 190.2          | 0.64                           | 57.5       |
| HYD241225WBL | 24            | 12.0 – 26.4             | 1           | 24        | 5200        | 208.4          | 0.7                            | 59.5       |
| HYD481225HBL | 48            | 24.0 – 56.0             | 0.13        | 6.24      | 2600        | 106.1          | 0.23                           | 44         |
| HYD481225XBL | 48            | 24.0 – 56.0             | 0.2         | 9.6       | 3500        | 144.6          | 0.33                           | 51.5       |
| HYD481225UBL | 48            | 24.0 – 56.0             | 0.33        | 15.84     | 4600        | 190.2          | 0.64                           | 57.5       |
| HYD481225WBL | 48            | 24.0 – 56.0             | 0.52        | 24.96     | 5200        | 208.4          | 0.71                           | 59.5       |

## DC FANS

### 120x120x32Y mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

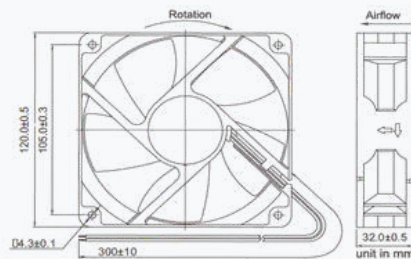
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300±10mm

**Weight:** 219 g

#### Dimensions (mm)

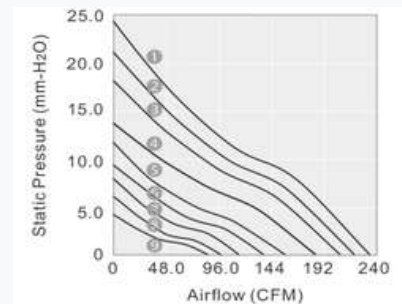


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD121232HBL | 12            | 7.0 – 13.2              | 0.58        | 6.96      | 2900        | 87.7           | 0.31                           | 47.5       |
| HYD121232XBL | 12            | 7.0 – 13.2              | 1.1         | 13.2      | 4100        | 115            | 0.54                           | 58.5       |
| HYD121232UBL | 12            | 7.0 – 13.2              | 1.6         | 19.2      | 4600        | 184.8          | 0.72                           | 61         |
| HYD121232WBL | 12            | 7.0 – 13.2              | 2.2         | 26.4      | 4900        | 207.3          | 0.83                           | 62         |
| HYD241232HBL | 24            | 12.0 – 26.4             | 0.29        | 6.96      | 2900        | 115            | 0.31                           | 47.5       |
| HYD241232XBL | 24            | 12.0 – 26.4             | 0.36        | 8.64      | 3500        | 157.7          | 0.46                           | 55         |
| HYD241232UBL | 24            | 12.0 – 26.4             | 0.75        | 18        | 4600        | 207.3          | 0.72                           | 61         |
| HYD241232WBL | 24            | 12.0 – 26.4             | 1           | 24        | 5200        | 234.3          | 0.96                           | 63.5       |
| HYD481232HBL | 48            | 24.0 – 56.0             | 0.19        | 9.12      | 2900        | 115            | 0.31                           | 47         |
| HYD481232XBL | 48            | 24.0 – 56.0             | 0.21        | 10.08     | 3500        | 157.7          | 0.46                           | 55         |
| HYD481232UBL | 48            | 24.0 – 56.0             | 0.45        | 21.6      | 4600        | 207.3          | 0.72                           | 61         |
| HYD481232WBL | 48            | 24.0 – 56.0             | 0.6         | 28.8      | 5200        | 234.3          | 0.96                           | 63.5       |

## DC FANS

### 120x120x38 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

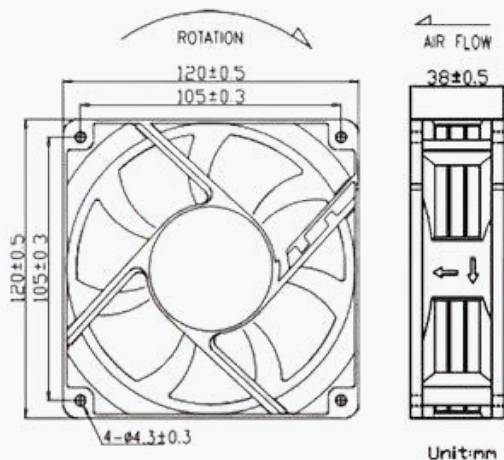
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 260 g

#### Dimensions (mm)

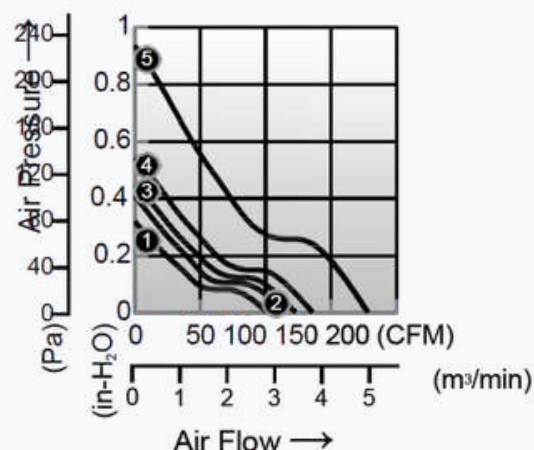


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|-------------|---------------|-------------------------|-------------|-------------|----------------|--------------------------------|------------|
| HYD121238XB | 12            | 7.0 – 13.2              | 0.75        | 2900        | 123.2          | 0.45                           | 44         |
| HYD121238UB | 12            | 7.0 – 13.2              | 0.8         | 3200        | 135.9          | 0.54                           | 48         |
| HYD121238WB | 12            | 7.0 – 13.2              | 1.55        | 4200        | 178.4          | 0.94                           | 54         |
| HYD241238HB | 24            | 14.0 – 26.4             | 0.48        | 2900        | 123.2          | 0.45                           | 44         |
| HYD241238XB | 24            | 14.0 – 26.4             | 0.62        | 3200        | 135.9          | 0.54                           | 48         |
| HYD241238UB | 24            | 14.0 – 26.4             | 0.85        | 4200        | 178.4          | 0.94                           | 54         |
| HYD481238LB | 48            | 28.0 – 56.0             | 0.25        | 2900        | 123.2          | 0.45                           | 44         |
| HYD481238MB | 48            | 28.0 – 56.0             | 0.3         | 3200        | 135.9          | 0.54                           | 48         |
| HYD481238HB | 48            | 28.0 – 56.0             | 0.48        | 4200        | 178.4          | 0.94                           | 54         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 120x120x38P mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Plastic Material UL94V-0

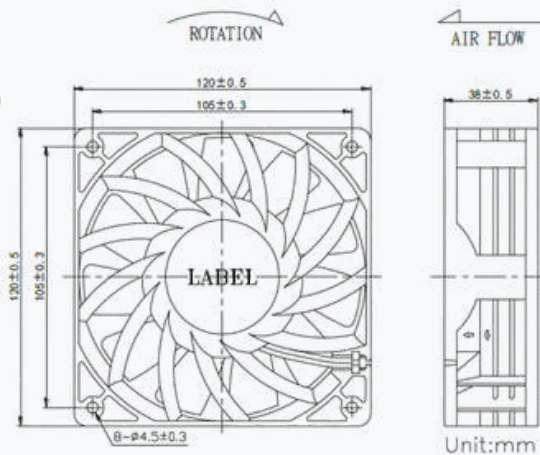
**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

**Motor Structure:** Brushless DC Motor

**Weight:** 315 g

#### Dimensions (mm)

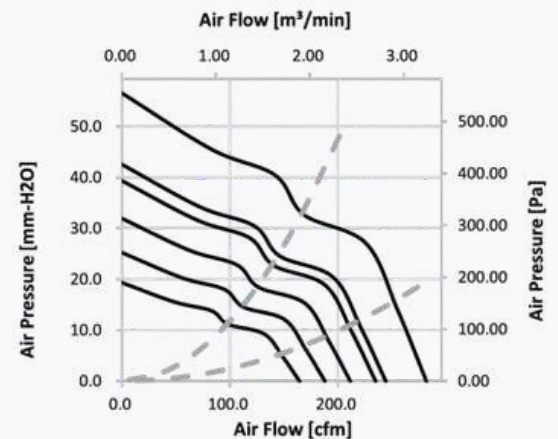


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (in-H2O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-------------|----------------|-------------------|------------|
| HYDP121238LB | 12            | 7.0 – 13.2              | 1.6         | 3500        | 164.3          | 0.76              | 52         |
| HYDP121238MB | 12            | 7.0 – 13.2              | 2           | 4000        | 187.8          | 0.99              | 55         |
| HYDP121238HB | 12            | 7.0 – 13.2              | 2.8         | 4500        | 211.3          | 1.26              | 57         |
| HYDP241238XB | 24            | 14.0 – 26.4             | 1.8         | 5000        | 234.8          | 1.55              | 60         |
| HYDP241238UB | 24            | 14.0 – 26.4             | 2           | 5200        | 244.2          | 1.67              | 61         |
| HYDP241238WB | 24            | 14.0 – 26.4             | 2.6         | 5500        | 258.2          | 1.87              | 62         |
| HYDP481238XB | 48            | 28.0 – 56.0             | 0.9         | 5000        | 234.8          | 1.55              | 60         |
| HYDP481238UB | 48            | 28.0 – 56.0             | 1           | 5200        | 244.2          | 1.67              | 61         |
| HYDP481238WB | 48            | 28.0 – 56.0             | 1.3         | 6000        | 281.8          | 2.22              | 64         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 127x127x38.5 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** 5-Blade, Glass-Fiber-Reinforced Plastic, UL94V-0

**Ambient Temperature Range:** -15°C ~ +65°C

**Bearing:** Sleeve Bearing / Ball Bearing

**Motor Structure:** Brushless DC Motor

**Motor Protection:** Auto Cutoff / Auto Restart

**Termination:** Lead Wire, 300 ± 10 mm

**Weight:** 420 g

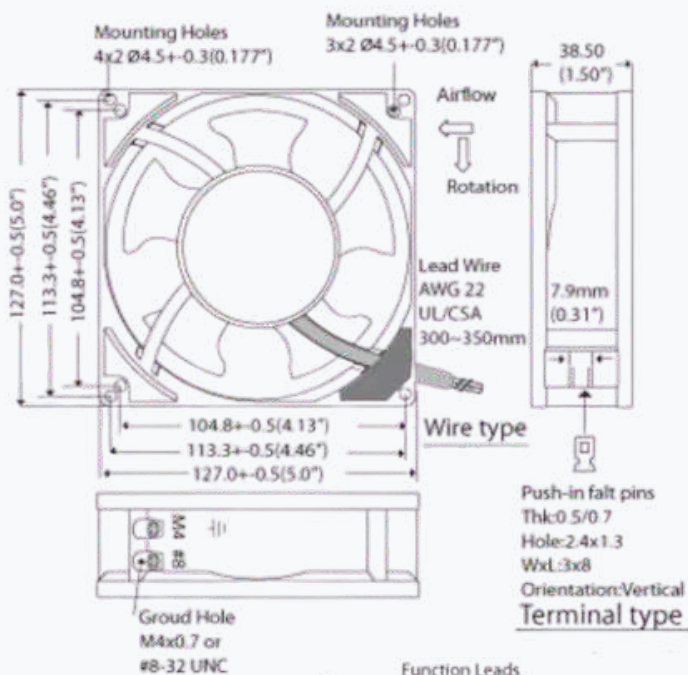


#### PLASTIC IMPELLER

#### Typical Applications

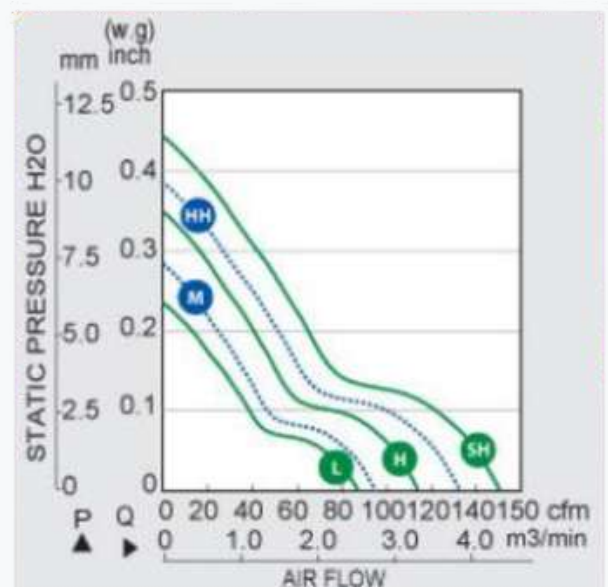
- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



| Function Leads |                                 |
|----------------|---------------------------------|
| Red color      | Alarm R/D- Yellow color         |
| 5V Green       | Tacho F/G- White color          |
| 12V Blue       | Speed control:                  |
| 24V Black      | Thermister NT S/C- Orange       |
| 38V Brown      | Pulse W. Mod. PWM-Purple        |
| 48V Brown      | Speed setting vs Vol. S/S- Gray |

#### Performance Curve





## DC FANS

# 127x127x38.5 mm

## Specifications — Continued

| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD051239LBL | 5             | 4.0 – 6.0               | 0.4         | 2         | 1700        | 75             | 0.21                           | 28         |
| HYD051239MBL | 5             | 4.0 – 6.0               | 0.55        | 3         | 2000        | 90             | 0.27                           | 32         |
| HYD051239HBL | 5             | 4.0 – 6.0               | 0.65        | 3.5       | 2300        | 100            | 0.31                           | 36         |
| HYD051239XBL | 5             | 4.0 – 6.0               | 1.6         | 8         | 2600        | 113            | 0.35                           | 40         |
| HYD051239UBL | 5             | 4.0 – 6.0               | 1.9         | 9.5       | 2900        | 128            | 0.39                           | 43         |
| HYD121239LBL | 12            | 9.0 – 13.8              | 0.2         | 2.4       | 1900        | 86             | 0.23                           | 30         |
| HYD121239MBL | 12            | 9.0 – 13.8              | 0.4         | 4.8       | 2200        | 96             | 0.29                           | 34         |
| HYD121239HBL | 12            | 9.0 – 13.8              | 0.5         | 6         | 2500        | 110            | 0.33                           | 38         |
| HYD121239XBL | 12            | 9.0 – 13.8              | 0.7         | 8.4       | 2800        | 122            | 0.37                           | 42         |
| HYD121239UBL | 12            | 9.0 – 14.0              | 0.88        | 10.6      | 3100        | 138            | 0.4                            | 45         |
| HYD241239LBL | 24            | 12.0 – 28.0             | 0.15        | 3.6       | 1900        | 86             | 0.23                           | 30         |
| HYD241239MBL | 24            | 12.0 – 27.6             | 0.19        | 4.6       | 2200        | 96             | 0.29                           | 34         |
| HYD241239HBL | 24            | 12.0 – 27.6             | 0.23        | 5.5       | 2600        | 115            | 0.35                           | 40         |
| HYD241239XBL | 24            | 12.0 – 27.6             | 0.35        | 8.4       | 2900        | 128            | 0.39                           | 43         |
| HYD241239UBL | 24            | 12.0 – 27.6             | 0.43        | 10.3      | 3200        | 145            | 0.43                           | 46         |
| HYD481239LBL | 48            | 28.0 – 60.0             | 0.07        | 3.4       | 1900        | 86             | 0.23                           | 30         |
| HYD481239MBL | 48            | 26.0 – 58.0             | 0.08        | 3.8       | 2200        | 96             | 0.29                           | 34         |
| HYD481239HBL | 48            | 26.0 – 58.0             | 0.1         | 5         | 2600        | 115            | 0.35                           | 40         |
| HYD481239XBL | 48            | 26.0 – 58.0             | 0.16        | 7.7       | 2900        | 128            | 0.39                           | 43         |
| HYD481239UBL | 48            | 26.0 – 58.0             | 0.22        | 10.6      | 3200        | 145            | 0.43                           | 46         |

Typical applications shown are for reference only. Product selection should be based on actual operating requirements.

## DC FANS

### 140x140x25 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Plastic

**Impeller:** Thermoplastic PBT UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

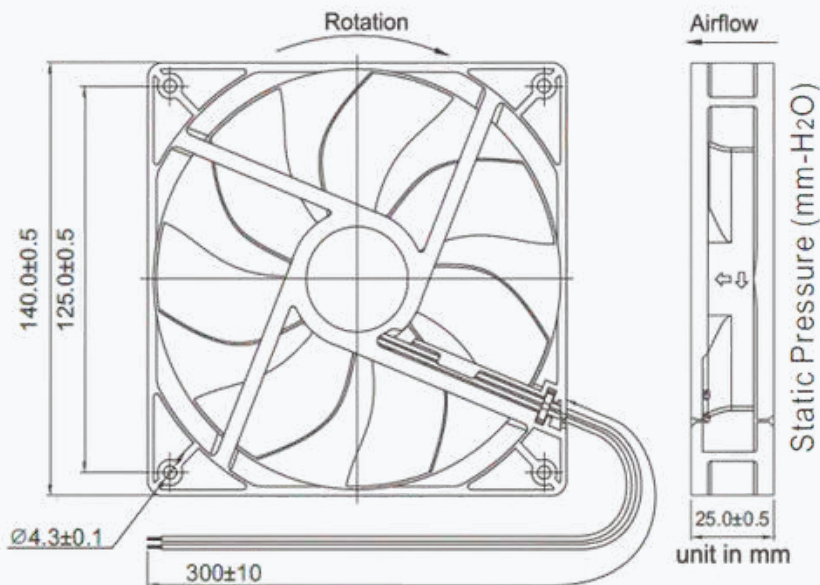
**Bearing:** Sleeve or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead wire 300 ± 10 mm

**Weight:** 182 g

#### Dimensions (mm)

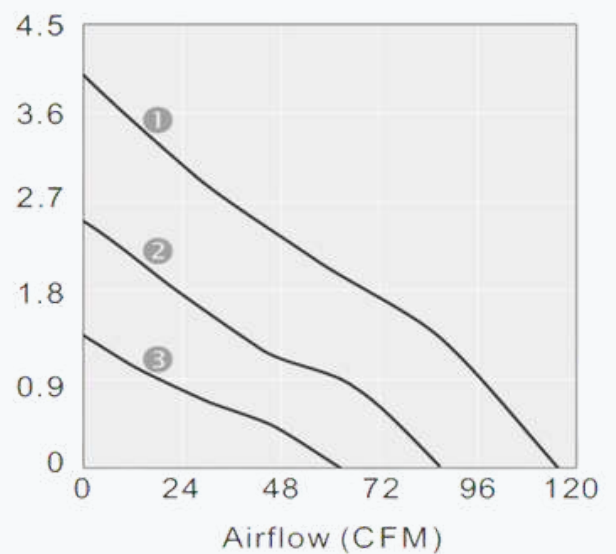


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD121425LBL | 12            | 7.0 – 13.2              | 0.07        | 0.84      | 1050        | 62.1           | 0.05                           | 21.7       |
| HYD121425MBL | 12            | 7.0 – 13.2              | 0.17        | 2.04      | 1450        | 87.1           | 0.1                            | 31.6       |
| HYD121425HBL | 12            | 7.0 – 13.2              | 0.37        | 4.44      | 1850        | 115.3          | 0.16                           | 40.6       |

## DC FANS

### 172x150x38 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Plastic

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

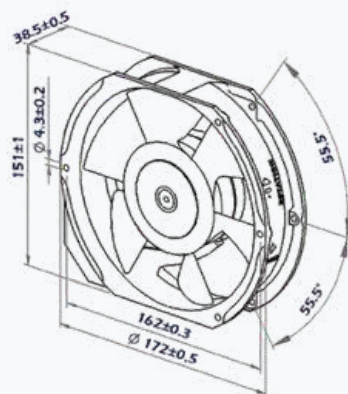
**Motor Structure:** Permanent Magnet  
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Terminals or Lead Wire

**Weight:** 840 g / **Packing:** 12 pcs/carton

#### Dimensions (mm)



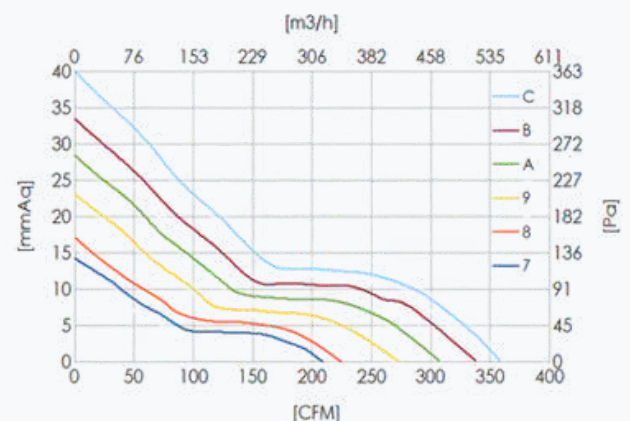
IP54

#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model                   | Voltage (VDC) | Current (A)    | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) | Curve No. |
|-------------------------|---------------|----------------|-------------|----------------|-----------------|------------|-----------|
| HYD <del>x</del> 1738LB | 12/24/48      | 1.1/0.54/0.28  | 2800        | 210            | 14.5            | 52         | 7         |
| HYD <del>x</del> 1738MB | 12/24/48      | 1.59/0.78/0.37 | 3200        | 245            | 18.6            | 56         | 8         |
| HYD <del>x</del> 1738HB | 12/24/48      | 2.34/1.08/0.52 | 3600        | 275            | 23.1            | 60         | 9         |
| HYD <del>x</del> 1738XB | 12/24/48      | 3.33/1.38/0.68 | 4000        | 310            | 28.5            | 64         | A         |
| HYD <del>x</del> 1738XB | 24/48         | 1.91/0.9       | 4400        | 340            | 33.4            | 68         | B         |
| HYD <del>x</del> 1738XB | 24/48         | 2.34/1.13      | 4800        | 360            | 39.2            | 72         | C         |

Note: x = 6 (12VDC), 7 (24VDC), 8 (48VDC).  
Current values correspond to the voltage sequence shown.

## DC FANS

### ø172x51 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Plastic

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

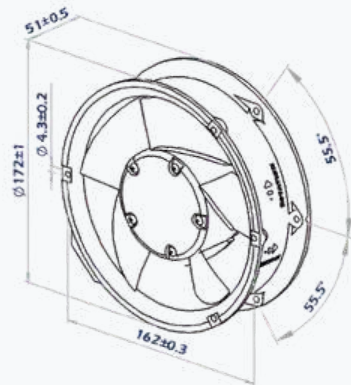
**Motor Structure:** Permanent Magnet  
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Terminals or Lead Wire

**Weight:** 1,070 g / **Packing:** 12 pcs/carton

#### Dimensions (mm)



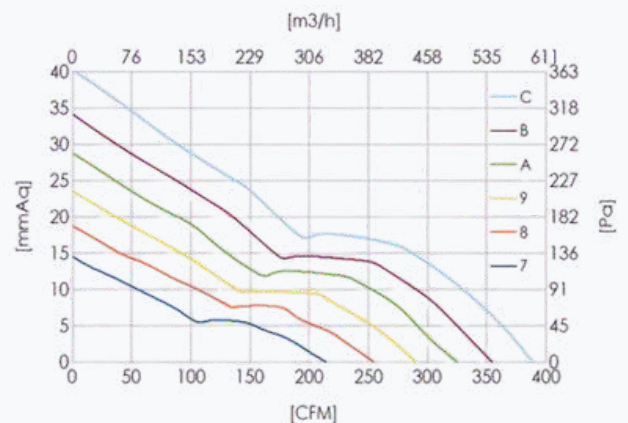
IP54

#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model      | Voltage (VDC) | Current (A)    | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) | Curve No. |
|------------|---------------|----------------|-------------|----------------|-----------------|------------|-----------|
| HYDx1751LB | 12/24/48      | 1.31/0.65/0.33 | 2800        | 220            | 14.5            | 52         | 7         |
| HYDx1751MB | 12/24/48      | 1.88/0.89/0.45 | 3200        | 255            | 18.7            | 56         | 8         |
| HYDx1751HB | 12/24/48      | 2.75/1.21/0.6  | 3600        | 290            | 23.5            | 60         | 9         |
| HYDx1751XB | 12/24/48      | 3.74/1.69/0.79 | 4000        | 325            | 28.8            | 64         | A         |
| HYDx1751XB | 24/48         | 2.41/1.15      | 4400        | 355            | 34.1            | 68         | B         |
| HYDx1751XB | 24/48         | 2.96/1.48      | 4800        | 390            | 40.3            | 72         | C         |

Note: x = 6 (12VDC), 7 (24VDC), 8 (48VDC).  
Current values correspond to the voltage sequence shown.

## DC FANS

# 172x150x51 mm

### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Plastic

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

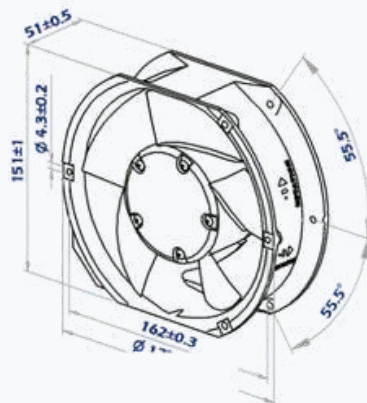
**Motor Structure:** Permanent Magnet  
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Terminals or Lead Wire

**Weight:** 1,070 g / **Packing:** 12 pcs/carton

### Dimensions (mm)



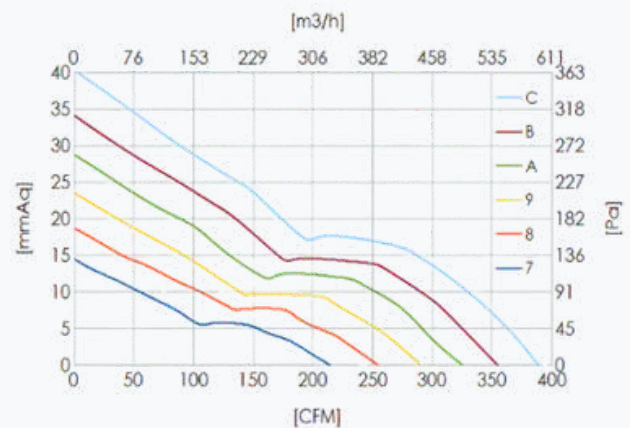
IP54

### PLASTIC IMPELLER

### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

### Performance Curve



| Model      | Voltage (VDC) | Current (A)    | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) | Curve No. |
|------------|---------------|----------------|-------------|----------------|-----------------|------------|-----------|
| HYDX1751LB | 12/24/48      | 1.31/0.65/0.33 | 2800        | 220            | 14.5            | 52         | 7         |
| HYDX1751MB | 12/24/48      | 1.88/0.89/0.45 | 3200        | 255            | 18.7            | 56         | 8         |
| HYDX1751HB | 12/24/48      | 2.75/1.21/0.6  | 3600        | 290            | 23.5            | 60         | 9         |
| HYDX1751XB | 12/24/48      | 3.73/1.69/0.79 | 4000        | 325            | 28.8            | 64         | A         |
| HYDX1751XB | 24/48         | 2.41/1.15      | 4400        | 355            | 34.1            | 68         | B         |
| HYDX1751XB | 24/48         | 2.94/1.48      | 4800        | 390            | 40.3            | 72         | C         |

Note: x = 6 (12VDC), 7 (24VDC), 8 (48VDC).  
Current values correspond to the voltage sequence shown.

## DC FANS

### 172x150x55 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Plastic

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

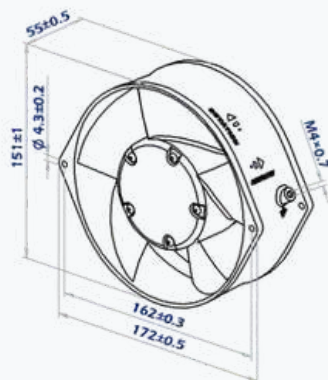
**Motor Structure:** Permanent Magnet  
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Terminals or Lead Wire

**Weight:** 1,010 g / **Packing:** 12 pcs/carton

#### Dimensions (mm)



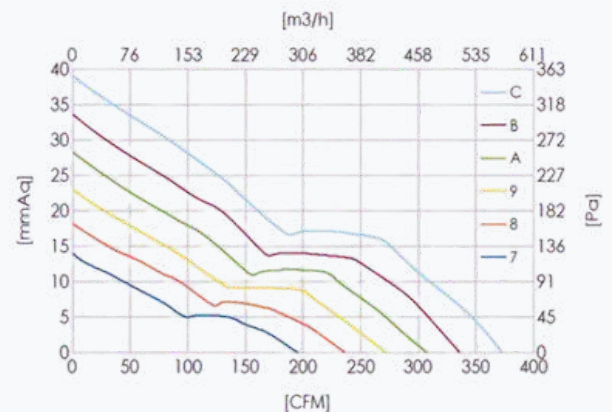
IP54

#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model                   | Voltage (VDC) | Current (A)    | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) | Curve No. |
|-------------------------|---------------|----------------|-------------|----------------|-----------------|------------|-----------|
| HYD <del>x</del> 1755LB | 12/24/48      | 1.31/0.65/0.33 | 2800        | 205            | 13.9            | 53         | 7         |
| HYD <del>x</del> 1755MB | 12/24/48      | 1.88/0.94/0.45 | 3200        | 240            | 18.2            | 57         | 8         |
| HYD <del>x</del> 1755HB | 12/24/48      | 2.75/1.21/0.6  | 3600        | 275            | 22.9            | 61         | 9         |
| HYD <del>x</del> 1755XB | 12/24/48      | 3.74/1.69/0.79 | 4000        | 310            | 28.3            | 65         | A         |
| HYD <del>x</del> 1755XB | 24/48         | 2.41/1.15      | 4400        | 340            | 33.6            | 69         | B         |
| HYD <del>x</del> 1755XB | 24/48         | 2.94/1.48      | 4800        | 375            | 39.7            | 73         | C         |

Note: x = 6 (12VDC), 7 (24VDC), 8 (48VDC).  
Current values correspond to the voltage sequence shown.

## DC FANS

### 176x176x89 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Glass-Fiber-Reinforced Plastic, UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

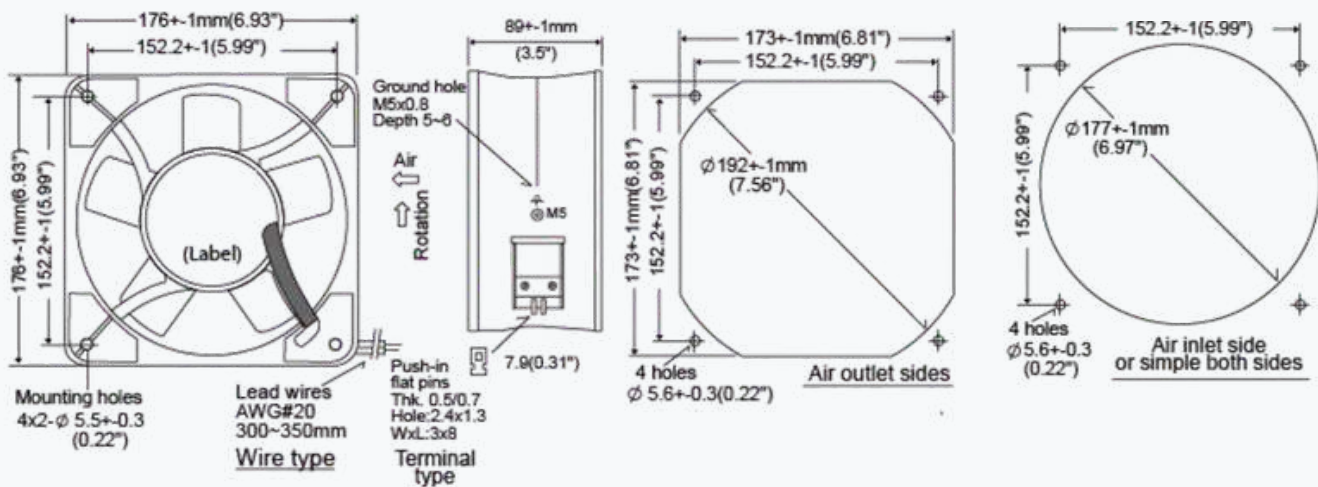
**Bearing:** Sleeve Bearing or Ball Bearing

**Motor Structure:** Brushless DC Motor

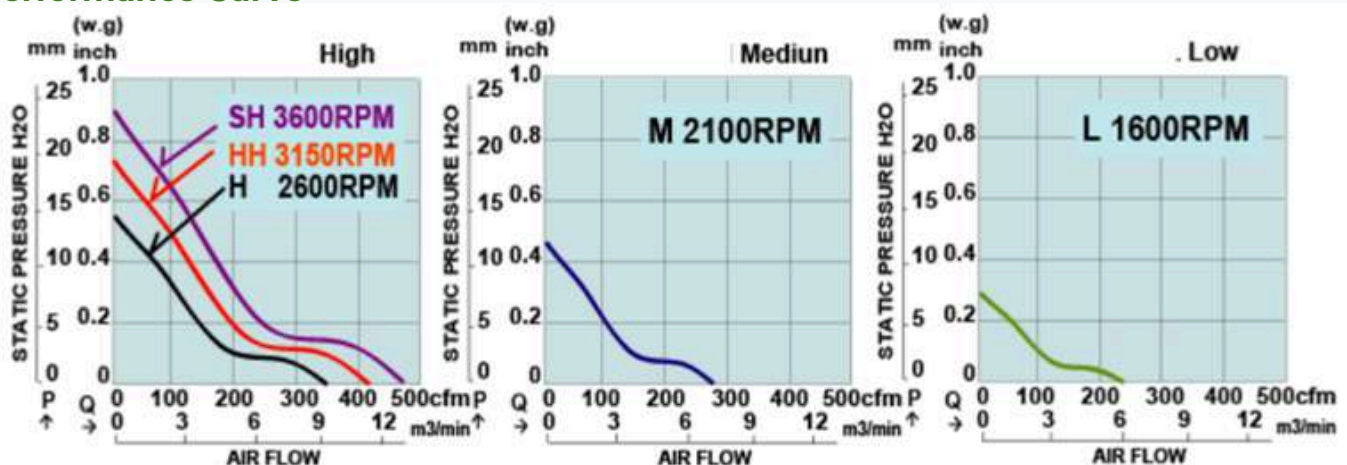
**Termination:** Lead Wire, 300 ± 10 mm

**Weight:** 1,500 g

#### Dimensions (mm)



#### Performance Curve



#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling



## DC FANS

# 176x176x89 mm

## Specifications — Continued

| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD121789LBL | 12            | 10.0 – 14.0             | 0.45        | 5.5       | 1600        | 230            | 0.23                           | 39         |
| HYD121789MBL | 12            | 10.0 – 14.0             | 1.1         | 13.2      | 2100        | 290            | 0.47                           | 46         |
| HYD121789HBL | 12            | 9.0 – 13.8              | 1.9         | 23        | 2600        | 350            | 0.55                           | 53         |
| HYD121789XBL | 12            | 9.0 – 13.8              | 4.2         | 50.4      | 3100        | 410            | 0.75                           | 60         |
| HYD121789UBL | 12            | 9.0 – 13.8              | 5.4         | 64.8      | 3600        | 485            | 0.89                           | 65         |
| HYD241789LBL | 24            | 12.0 – 28.0             | 0.2         | 5         | 1600        | 230            | 0.23                           | 39         |
| HYD241789MBL | 24            | 12.0 – 28.0             | 0.52        | 13        | 2100        | 290            | 0.47                           | 46         |
| HYD241789HBL | 24            | 12.0 – 27.6             | 0.97        | 24        | 2600        | 350            | 0.55                           | 53         |
| HYD241789XBL | 24            | 12.0 – 27.6             | 2.1         | 50.4      | 3150        | 420            | 0.76                           | 61         |
| HYD241789UBL | 24            | 12.0 – 27.6             | 2.65        | 63.6      | 3600        | 485            | 0.89                           | 65         |
| HYD481789LBL | 48            | 30.0 – 62.0             | 0.12        | 5.8       | 1600        | 230            | 0.23                           | 39         |
| HYD481789MBL | 48            | 28.0 – 58.0             | 0.3         | 14.5      | 2100        | 290            | 0.47                           | 46         |
| HYD481789HBL | 48            | 24.0 – 53.0             | 0.48        | 23.5      | 2600        | 350            | 0.55                           | 53         |
| HYD481789XBL | 48            | 24.0 – 53.0             | 1.03        | 49.4      | 3150        | 420            | 0.76                           | 61         |
| HYD481789UBL | 48            | 24.0 – 53.0             | 1.3         | 62.4      | 3600        | 485            | 0.89                           | 65         |

## DC FANS

### 180x180x65 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Glass-Fiber-Reinforced Plastic, UL94V-0

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Sleeve Bearing or Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead Wire, 300 ± 10 mm

**Weight:** 1,450 g

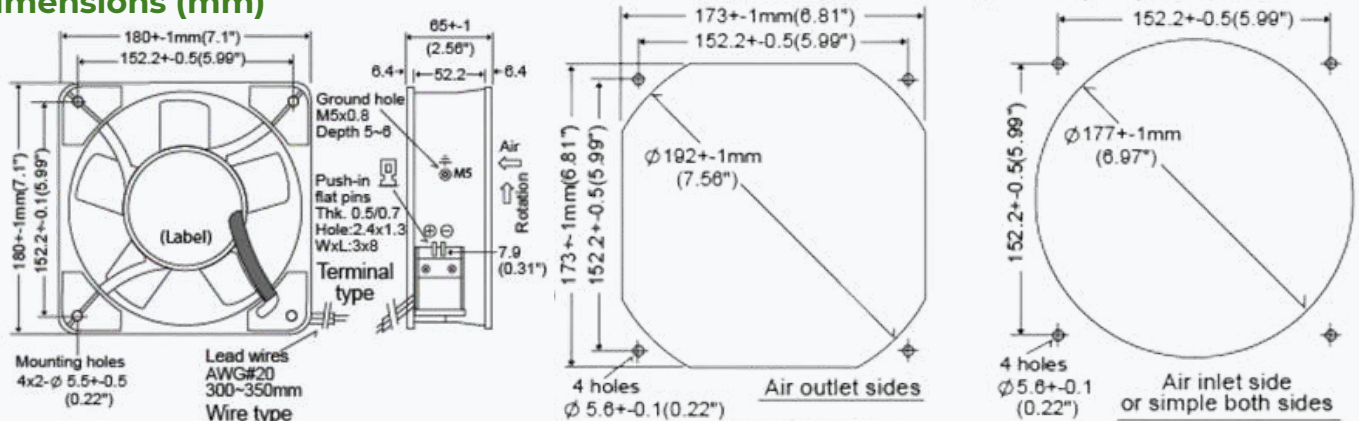


#### PLASTIC IMPELLER

#### Typical Applications

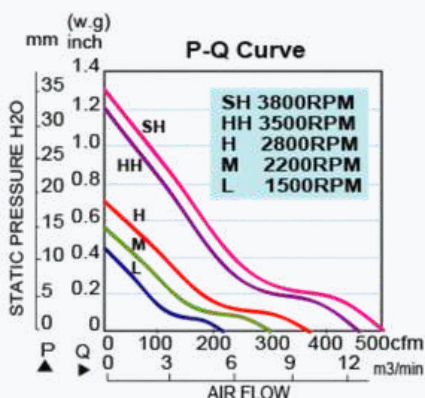
- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



| Function Leads |                                |
|----------------|--------------------------------|
| ⊕ Red color    | Alarm R/D-Yellow color         |
| ⊖ 5V Green     | Tacho F/G-White color          |
| 12V Blue       | Speed control:                 |
| 24V Black      | Thermister NTC S/C-Orange      |
| 38V Brown      | Pules W.Mod.PWM-Purple         |
| 48V Brown      | Speed setting vs Vol. S/V-Gray |

#### Performance Curve





## DC FANS

# 180x180x65 mm

## Specifications — Continued

| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD121865LBL | 12            | 10.0 – 14.0             | 0.45        | 5.5       | 1500        | 215            | 0.42                           | 36         |
| HYD121865MBL | 12            | 10.0 – 14.0             | 1.1         | 13.2      | 2200        | 300            | 0.58                           | 46         |
| HYD121865HBL | 12            | 9.0 – 13.8              | 1.9         | 23        | 2800        | 375            | 0.7                            | 53         |
| HYD121865XBL | 12            | 9.0 – 13.8              | 4.2         | 50.4      | 3400        | 460            | 1.1                            | 63         |
| HYD121865UBL | 12            | 9.0 – 13.8              | 5.4         | 64.8      | 3700        | 490            | 1.25                           | 68         |
| HYD241865LBL | 24            | 15.0 – 28.0             | 0.2         | 5         | 1500        | 215            | 0.42                           | 36         |
| HYD241865MBL | 24            | 12.0 – 28.0             | 0.52        | 13        | 2200        | 300            | 0.58                           | 46         |
| HYD241865HBL | 24            | 12.0 – 27.6             | 0.97        | 24        | 2800        | 375            | 0.7                            | 53         |
| HYD241865XBL | 24            | 12.0 – 27.6             | 2.1         | 50.4      | 3500        | 470            | 1.2                            | 65         |
| HYD241865UBL | 24            | 12.0 – 27.6             | 2.65        | 63.6      | 3800        | 500            | 1.3                            | 69         |
| HYD481865LBL | 48            | 30.0 – 63.0             | 0.12        | 5.8       | 1500        | 215            | 0.42                           | 36         |
| HYD481865MBL | 48            | 28.0 – 60.0             | 0.3         | 14.5      | 2200        | 300            | 0.58                           | 46         |
| HYD481865HBL | 48            | 24.0 – 55.0             | 0.48        | 23.5      | 2800        | 375            | 0.7                            | 53         |
| HYD481865XBL | 48            | 24.0 – 55.0             | 1.03        | 49.4      | 3500        | 470            | 1.2                            | 65         |
| HYD481865UBL | 48            | 24.0 – 55.0             | 1.3         | 62.4      | 3800        | 500            | 1.3                            | 69         |

## DC FANS

### ø200x70 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Glass-Fiber-Reinforced Plastic, UL94V-0

**Ambient Temperature Range:** -15°C ~ +65°C

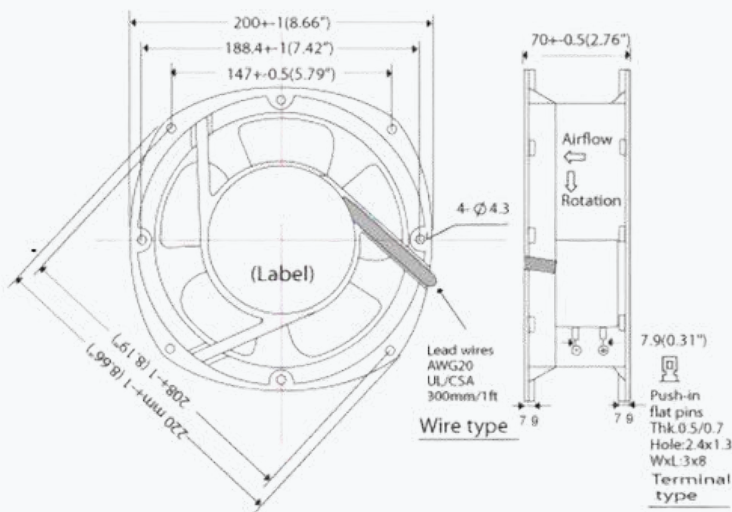
**Bearing:** Sleeve Bearing or Ball Bearing

**Motor Structure:** Brushless DC Motor

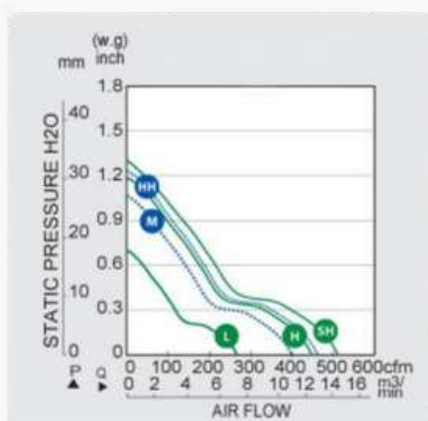
**Termination:** Lead Wire, 300 ± 10 mm

**Weight:** 1,800 g

#### Dimensions (mm)



#### Performance Curve



#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling



## DC FANS

# Ø200x70 mm

## Specifications — Continued

| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD122070LBL | 12            | 10.0 – 16.0             | 0.45        | 5.5       | 1800        | 280            | 0.7                            | 39         |
| HYD122070MBL | 12            | 9.0 – 14.0              | 1.1         | 13.2      | 2400        | 380            | 1.05                           | 53         |
| HYD122070HBL | 12            | 9.0 – 13.6              | 1.9         | 23        | 2600        | 425            | 1.15                           | 57         |
| HYD122070XBL | 12            | 9.0 – 13.6              | 4.2         | 50.4      | 2900        | 455            | 1.25                           | 60         |
| HYD122070UBL | 12            | 9.0 – 13.6              | 5.4         | 64.8      | 3050        | 495            | 1.26                           | 65         |
| HYD242070LBL | 24            | 16.0 – 28.0             | 0.2         | 5         | 1800        | 280            | 0.7                            | 39         |
| HYD242070MBL | 24            | 16.0 – 27.6             | 0.52        | 13        | 2500        | 400            | 1.1                            | 53         |
| HYD242070HBL | 24            | 16.0 – 27.6             | 0.97        | 24        | 3000        | 460            | 1.26                           | 58         |
| HYD242070XBL | 24            | 16.0 – 27.6             | 2.1         | 50.4      | 3200        | 470            | 1.27                           | 63         |
| HYD242070UBL | 24            | 16.0 – 27.6             | 2.65        | 63.6      | 3300        | 505            | 1.3                            | 69         |
| HYD482070LBL | 48            | 32.0 – 63.0             | 0.12        | 5.8       | 1800        | 280            | 0.7                            | 39         |
| HYD482070MBL | 48            | 30.0 – 56.0             | 0.3         | 14.5      | 2500        | 400            | 1.1                            | 53         |
| HYD482070HBL | 48            | 30.0 – 56.0             | 0.48        | 23.5      | 3000        | 460            | 1.26                           | 58         |
| HYD482070XBL | 48            | 30.0 – 53.0             | 1.03        | 49.4      | 3200        | 470            | 1.27                           | 63         |
| HYD482070UBL | 48            | 30.0 – 53.0             | 1.3         | 62.4      | 3300        | 505            | 1.3                            | 69         |

## DC FANS

### ø254x89(3) mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Glass-Fiber-Reinforced Plastic, UL94V-0

**Ambient Temperature Range:** -15°C ~ +65°C

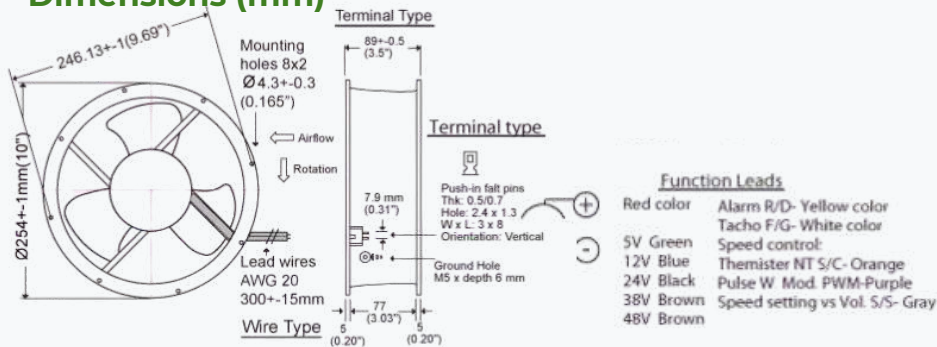
**Bearing:** Two Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead Wire, 300 ± 10 mm

**Weight:** 1,830 g

#### Dimensions (mm)

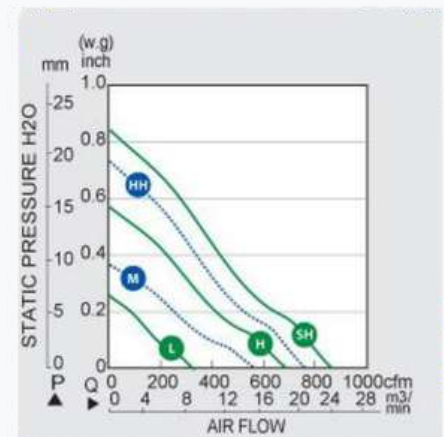


#### PLASTIC IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|-----------------|------------|
| HYD122589HBL | 12            | 9.0 – 13.0              | 1.9         | 23        | 2000        | 690            | 0.56            | 47         |
| HYD122589XBL | 12            | 9.0 – 13.0              | 4.2         | 50.4      | 2200        | 750            | 0.69            | 56         |
| HYD122589UBL | 12            | 9.0 – 13.0              | 5.4         | 64.8      | 2400        | 830            | 0.78            | 60         |
| HYD242589HBL | 24            | 16.0 – 27.0             | 0.97        | 24        | 2000        | 690            | 0.58            | 47         |
| HYD242589XBL | 24            | 16.0 – 27.0             | 2.1         | 50.4      | 2300        | 760            | 0.71            | 58         |
| HYD242589UBL | 24            | 16.0 – 27.0             | 2.65        | 63.6      | 2500        | 850            | 0.83            | 62         |
| HYD482589XBL | 48            | 24.0 – 53.0             | 1.03        | 49.4      | 2300        | 760            | 0.71            | 58         |
| HYD482589UBL | 48            | 24.0 – 53.0             | 1.3         | 62.4      | 2500        | 850            | 0.83            | 62         |

## DC FANS

### ø254x89 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Glass-Fiber-Reinforced Plastic, UL94V-0

**Ambient Temperature Range:** -15°C ~ +65°C

**Bearing:** Two Ball Bearing

**Motor Structure:** Brushless DC Motor

**Termination:** Lead Wire, 300 ± 10 mm

**Weight:** 2,200 g

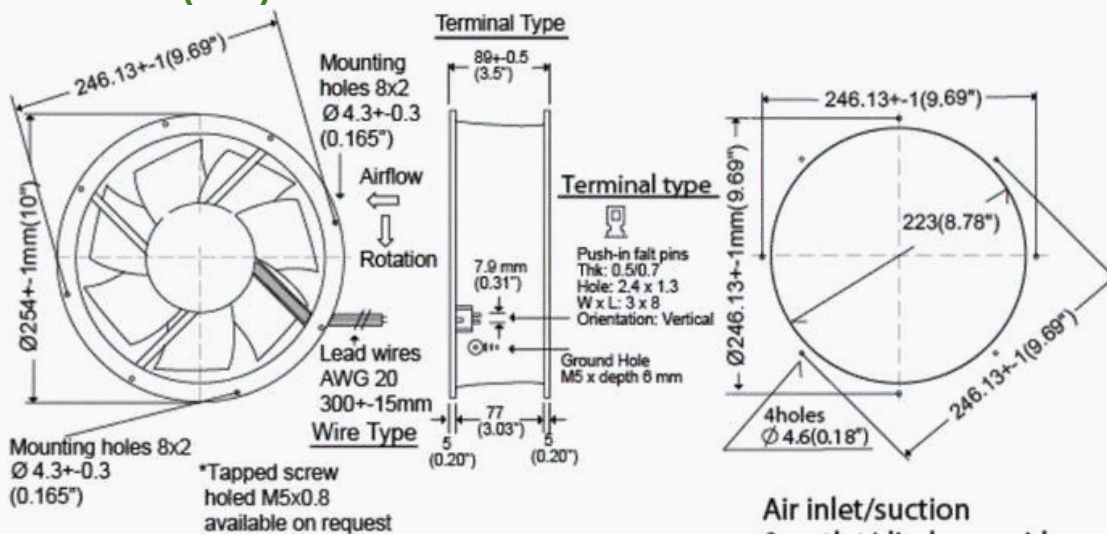


**PLASTIC IMPELLER**

#### Typical Applications

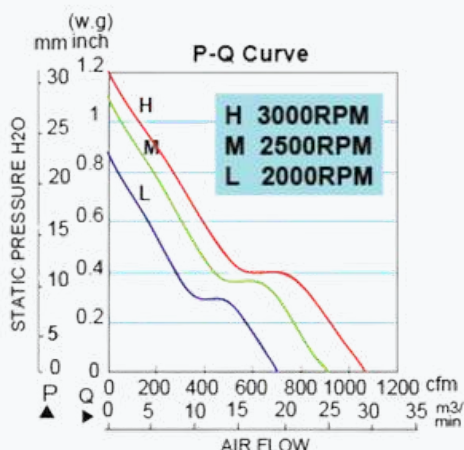
- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



Air inlet/suction  
& outlet/discharge sides

#### Performance Curve





## DC FANS

# ø254x89 mm

## Specifications — Continued

| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD122589LBL | 12            | 10.0 – 13.8             | 6           | 72        | 1900        | 690            | 0.73                           | 56         |
| HYD122589MBL | 12            | 10.0 – 13.8             | 7.8         | 93        | 2400        | 830            | 0.98                           | 63         |
| HYD122589HBL | 12            | 10.0 – 13.2             | 10.8        | 130       | 2600        | 910            | 1.1                            | 68         |
| HYD242589LBL | 24            | 18.0 – 27.6             | 3           | 72        | 2000        | 700            | 0.83                           | 58         |
| HYD242589MBL | 24            | 18.0 – 26.0             | 3.9         | 93        | 2500        | 900            | 1.1                            | 65         |
| HYD242589HBL | 24            | 18.0 – 26.0             | 5.2         | 125       | 3000        | 1050           | 1.2                            | 72         |
| HYD482589LBL | 48            | 24.0 – 53.0             | 1.5         | 72        | 2000        | 700            | 0.83                           | 58         |
| HYD482589MBL | 48            | 24.0 – 53.0             | 1.9         | 93        | 2500        | 900            | 1.1                            | 65         |
| HYD482589HBL | 48            | 24.0 – 53.0             | 2.6         | 125       | 3000        | 1050           | 1.2                            | 72         |





## DC FANS

# 280x280x88.9 mm

## Specifications — Continued

| Model        | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|--------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYD122889LBL | 12            | 9.0 – 13.5              | 4.2         | 50        | 1800        | 867            | 0.55                           | 48         |
| HYD122889MBL | 12            | 9.0 – 13.5              | 7.5         | 90        | 2100        | 1011           | 0.63                           | 55         |
| HYD242889LBL | 24            | 18.0 – 27.6             | 1.1         | 26.4      | 1800        | 867            | 0.55                           | 48         |
| HYD242889MBL | 24            | 18.0 – 27.6             | 2.45        | 58.8      | 2200        | 1060           | 0.65                           | 56         |
| HYD242889HBL | 24            | 18.0 – 27.6             | 4.35        | 104.4     | 2450        | 1180           | 0.9                            | 72         |
| HYD482889LBL | 48            | 24.0 – 55.0             | 0.55        | 26.4      | 1500        | 722            | 0.55                           | 48         |
| HYD482889MBL | 48            | 24.0 – 55.0             | 1.2         | 57.6      | 2200        | 1060           | 0.65                           | 56         |
| HYD482889HBL | 48            | 24.0 – 55.0             | 2.2         | 105.6     | 2450        | 1180           | 0.9                            | 72         |

## DC FANS

### 172x150x38 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Steel

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

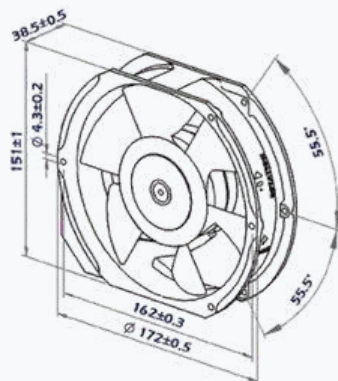
**Motor Structure:** Permanent Magnet  
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Terminals or Lead Wire

**Weight:** 880 g / **Packing:** 12 pcs/carton

#### Dimensions (mm)



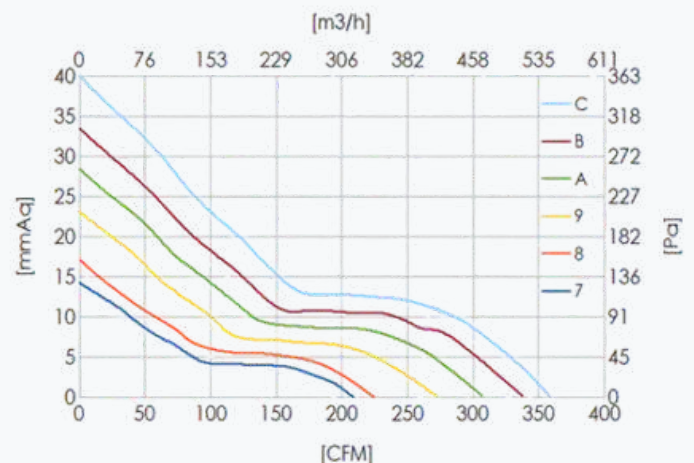
IP54

**METAL IMPELLER**

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Current (A)    | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) | Curve No. |
|-------------|---------------|----------------|-------------|----------------|-----------------|------------|-----------|
| HYDMx1738LB | 12/24/48      | 1.1/0.54/0.28  | 2800        | 210            | 14.5            | 52         | 7         |
| HYDMx1738MB | 12/24/48      | 1.59/0.78/0.37 | 3200        | 245            | 18.6            | 56         | 8         |
| HYDMx1738HB | 12/24/48      | 2.34/1.08/0.52 | 3600        | 275            | 23.1            | 60         | 9         |
| HYDMx1738XB | 12/24/48      | 3.33/1.38/0.68 | 4000        | 310            | 28.5            | 64         | A         |
| HYDMx1738XB | 24/48         | 1.91/0.9       | 4400        | 340            | 33.4            | 68         | B         |
| HYDMx1738XB | 24/48         | 2.34/1.13      | 4800        | 360            | 39.2            | 72         | C         |

Note: x = 6 (12VDC), 7 (24VDC), 8 (48VDC).  
Current values correspond to the voltage sequence shown.

## DC FANS

### ø172x51 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Steel

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

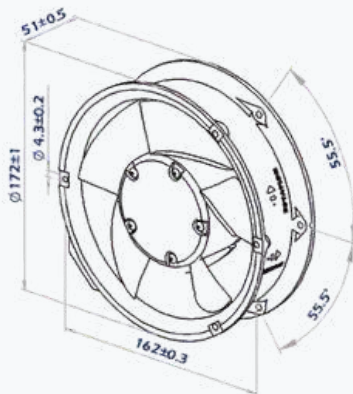
**Motor Structure:** Permanent Magnet  
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Terminals or Lead Wire

**Weight:** 1,100 g / **Packing:** 12 pcs/carton

#### Dimensions (mm)



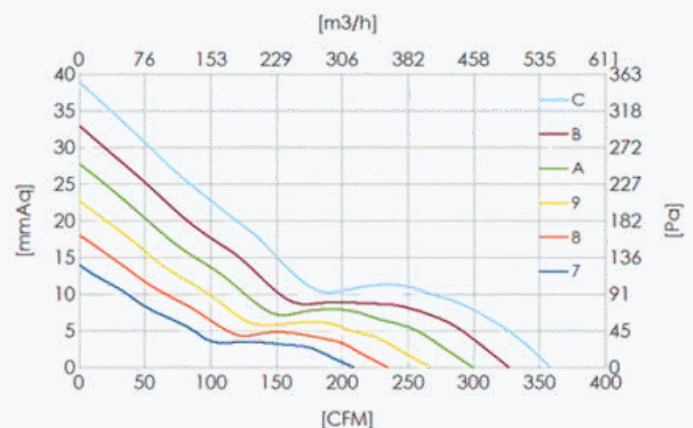
IP54

#### METAL IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Current (A)    | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) | Curve No. |
|-------------|---------------|----------------|-------------|----------------|-----------------|------------|-----------|
| HYDMx1751LB | 12/24/48      | 1.17/0.56/0.28 | 2800        | 210            | 14.2            | 52         | 7         |
| HYDMx1751MB | 12/24/48      | 1.6/0.77/0.39  | 3200        | 245            | 18.1            | 56         | 8         |
| HYDMx1751HB | 12/24/48      | 2.39/1.07/0.51 | 3600        | 275            | 22.7            | 60         | 9         |
| HYDMx1751XB | 12/24/48      | 2.76/1.38/0.69 | 4000        | 310            | 27.8            | 64         | A         |
| HYDMx1751XB | 24/48         | 1.8/0.9        | 4400        | 340            | 32.9            | 68         | B         |
| HYDMx1751XB | 24/48         | 2.3/1.18       | 4800        | 360            | 37.8            | 72         | C         |

Note: x = 6 (12VDC), 7 (24VDC), 8 (48VDC).  
Current values correspond to the voltage sequence shown.

## DC FANS

### 172x150x51 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Steel

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

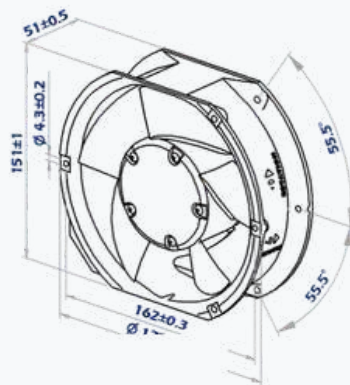
**Motor Structure:** Permanent Magnet  
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Terminals or Lead Wire

**Weight:** 1,100 g / **Packing:** 12 pcs/carton

#### Dimensions (mm)



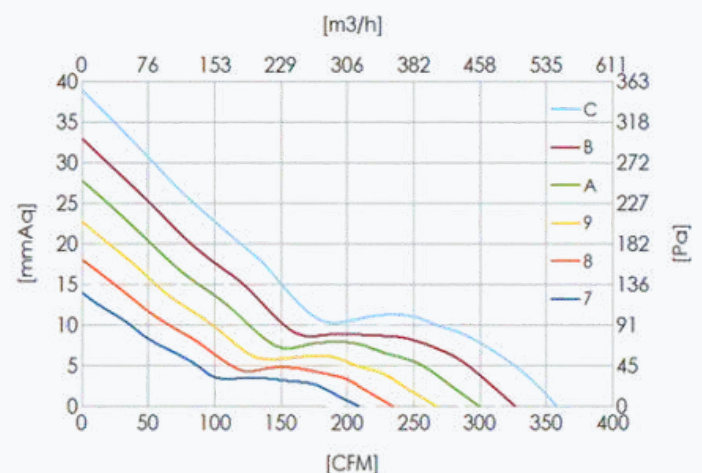
IP54

#### METAL IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Current (A)    | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) | Curve No. |
|-------------|---------------|----------------|-------------|----------------|-----------------|------------|-----------|
| HYDMx1751LB | 12/24/48      | 1.17/0.56/0.28 | 2800        | 210            | 14.2            | 52         | 7         |
| HYDMx1751MB | 12/24/48      | 1.6/0.77/0.39  | 3200        | 245            | 18.1            | 56         | 8         |
| HYDMx1751HB | 12/24/48      | 2.39/1.07/0.51 | 3600        | 275            | 22.7            | 60         | 9         |
| HYDMx1751XB | 12/24/48      | 2.76/1.38/0.69 | 4000        | 310            | 27.8            | 64         | A         |
| HYDMx1751XB | 24/48         | 1.8/0.9        | 4400        | 340            | 32.9            | 68         | B         |
| HYDMx1751XB | 24/48         | 2.3/1.18       | 4800        | 360            | 37.8            | 72         | C         |

Note: x = 6 (12VDC), 7 (24VDC), 8 (48VDC).  
Current values correspond to the voltage sequence shown.

## DC FANS

### 172x150x55 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Steel

**Ambient Temperature Range:** -10°C ~ +70°C

**Bearing:** Ball Bearing

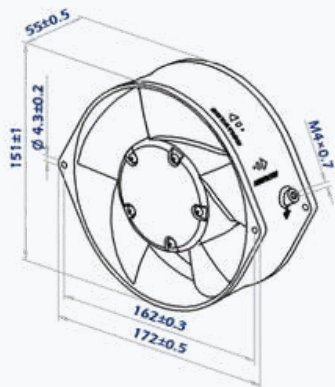
**Motor Structure:** Permanent Magnet  
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Terminals or Lead Wire

**Weight:** 1,040 g / **Packing:** 12 pcs/carton

#### Dimensions (mm)



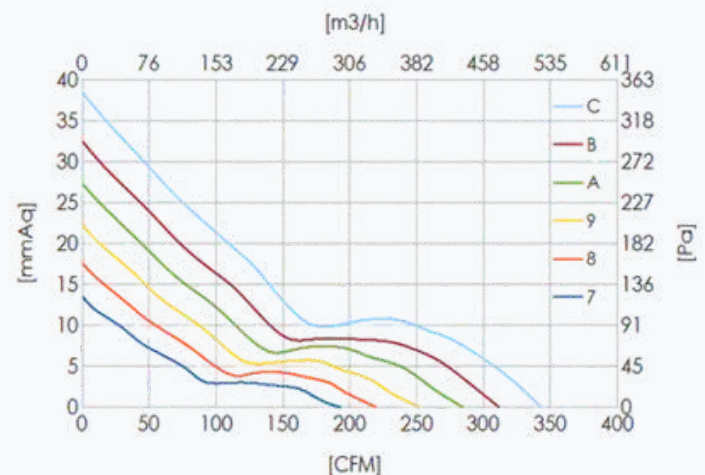
IP54

#### METAL IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Current (A)    | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) | Curve No. |
|-------------|---------------|----------------|-------------|----------------|-----------------|------------|-----------|
| HYDMx1755LB | 12/24/48      | 1.17/0.56/0.28 | 2800        | 195            | 12.1            | 59         | 7         |
| HYDMx1755MB | 12/24/48      | 1.6/0.77/0.39  | 3200        | 230            | 15.9            | 62         | 8         |
| HYDMx1755HB | 12/24/48      | 2.39/1.07/0.51 | 3600        | 260            | 20.5            | 65         | 9         |
| HYDMx1755XB | 12/24/48      | 2.76/1.38/0.69 | 4000        | 295            | 25.6            | 68         | A         |
| HYDMx1755XB | 24/48         | 1.8/0.9        | 4400        | 325            | 30.7            | 71         | B         |
| HYDMx1755XB | 24/48         | 2.3/1.18       | 4800        | 345            | 35.7            | 74         | C         |

Note: x = 6 (12VDC), 7 (24VDC), 8 (48VDC).  
Current values correspond to the voltage sequence shown.

## DC FANS

# 176x176x89 mm

### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** All Metal Fan Blades, High-Performance Metal Impeller

**Ambient Temperature Range:** -20°C ~ +65°C

**Bearing:** Ball Bearing

**Motor Structure:** Permanent Magnet Brushless DC Motor

**Termination:** Lead Wire 300 mm

**Weight:** 1,450 g

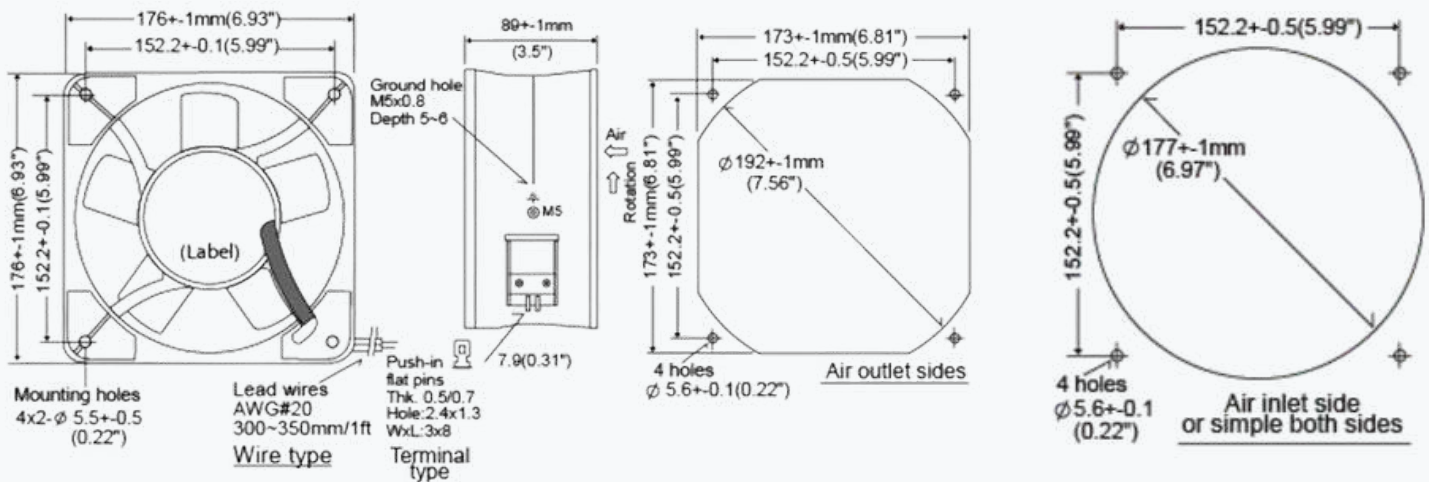


**METAL IMPELLER**

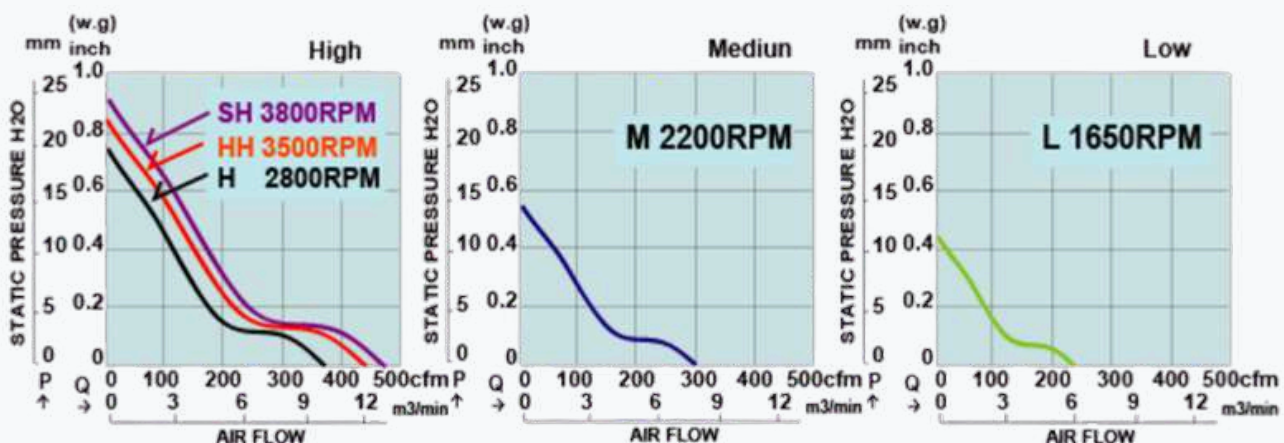
### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

### Dimensions (mm)



### Performance Curve





## DC FANS

# 176x176x89 mm

## Specifications — Continued

| Model         | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|---------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYDM121789LBL | 12            | 10.0 – 14.0             | 0.45        | 5.5       | 1650        | 235            | 0.41                           | 39         |
| HYDM121789MBL | 12            | 10.0 – 14.0             | 1.1         | 13.2      | 2200        | 300            | 0.58                           | 49         |
| HYDM121789HBL | 12            | 9.0 – 13.8              | 1.9         | 23        | 2800        | 370            | 0.75                           | 58         |
| HYDM121789XBL | 12            | 9.0 – 13.8              | 4.2         | 50.4      | 3400        | 445            | 0.82                           | 62         |
| HYDM121789UBL | 12            | 9.0 – 13.8              | 5.4         | 64.8      | 3700        | 480            | 0.86                           | 64         |
| HYDM241789LBL | 24            | 15.0 – 28.0             | 0.2         | 5         | 1650        | 235            | 0.41                           | 39         |
| HYDM241789MBL | 24            | 12.0 – 28.0             | 0.52        | 13        | 2200        | 300            | 0.58                           | 49         |
| HYDM241789HBL | 24            | 12.0 – 27.6             | 0.97        | 24        | 2800        | 370            | 0.75                           | 58         |
| HYDM241789XBL | 24            | 12.0 – 27.6             | 2.1         | 50.4      | 3500        | 450            | 0.83                           | 62         |
| HYDM241789UBL | 24            | 12.0 – 27.6             | 2.65        | 63.6      | 3800        | 485            | 0.88                           | 65         |
| HYDM481789LBL | 48            | 30.0 – 60.0             | 0.12        | 5.8       | 1650        | 235            | 0.41                           | 39         |
| HYDM481789MBL | 48            | 28.0 – 58.0             | 0.3         | 14.5      | 2200        | 300            | 0.58                           | 49         |
| HYDM481789HBL | 48            | 24.0 – 55.0             | 0.48        | 23.5      | 2800        | 370            | 0.75                           | 58         |
| HYDM481789XBL | 48            | 22.0 – 53.0             | 1.03        | 49.4      | 3500        | 450            | 0.83                           | 62         |
| HYDM481789UBL | 48            | 22.0 – 53.0             | 1.3         | 62.4      | 3800        | 485            | 0.88                           | 65         |

## DC FANS

### 180x180x65 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** All Metal Fan Blades, High-Performance Metal Impeller

**Ambient Temperature Range:** -20°C ~ +65°C

**Bearing:** Ball Bearing

**Motor Structure:** Permanent Magnet Brushless DC Motor

**Termination:** Lead Wire 300 mm

**Weight:** 1,400 g

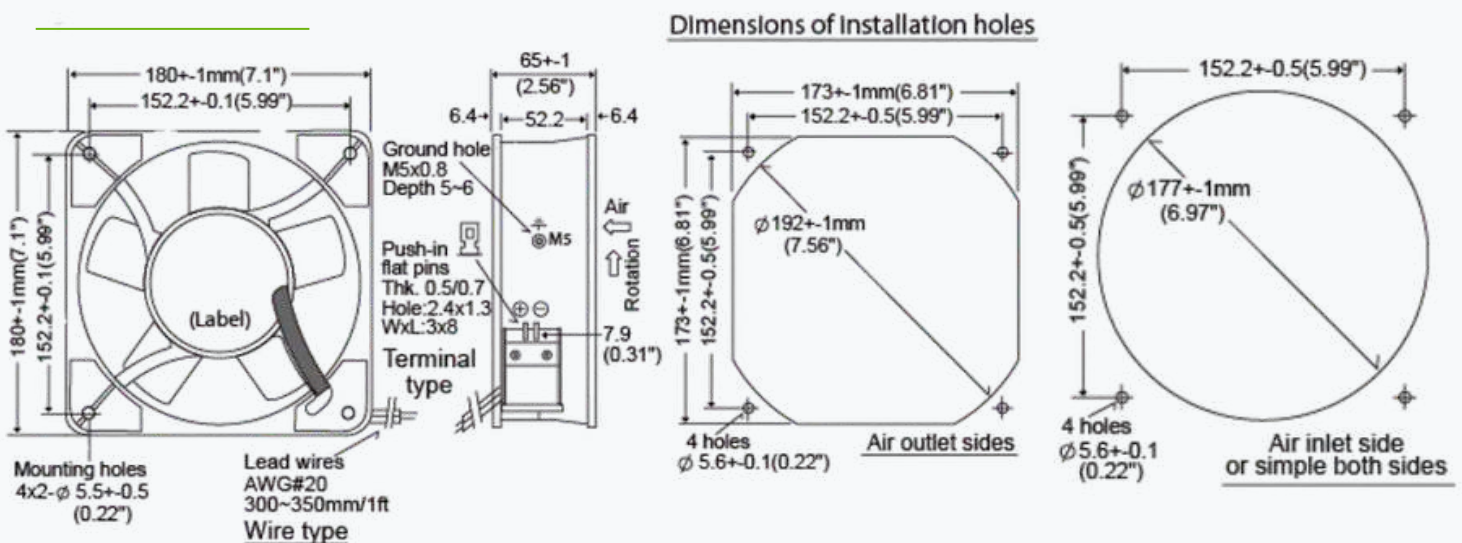


**METAL IMPELLER**

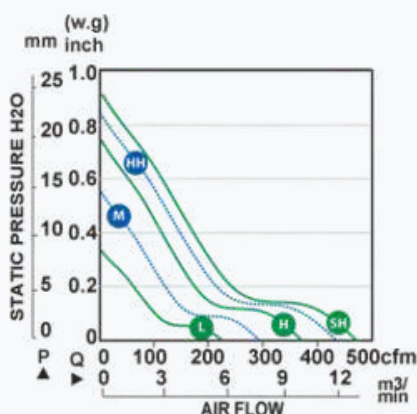
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve





## DC FANS

# 180x180x65 mm

## Specifications — Continued

| Model         | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|---------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYDM121865LBL | 12            | 10.0 – 14.0             | 0.45        | 5.5       | 1600        | 220            | 0.38                           | 38         |
| HYDM121865MBL | 12            | 10.0 – 14.0             | 1.1         | 13.2      | 2200        | 295            | 0.55                           | 49         |
| HYDM121865HBL | 12            | 9.0 – 13.8              | 1.9         | 23        | 2800        | 360            | 0.72                           | 58         |
| HYDM121865XBL | 12            | 9.0 – 13.8              | 4.2         | 50.4      | 3400        | 440            | 0.82                           | 62         |
| HYDM121865UBL | 12            | 9.0 – 13.8              | 5.4         | 64.8      | 3700        | 475            | 0.87                           | 64         |
| HYDM241865LBL | 24            | 15.0 – 28.0             | 0.2         | 5         | 1600        | 220            | 0.38                           | 38         |
| HYDM241865MBL | 24            | 12.0 – 28.0             | 0.52        | 13        | 2200        | 295            | 0.55                           | 49         |
| HYDM241865HBL | 24            | 12.0 – 27.6             | 0.97        | 24        | 2800        | 360            | 0.72                           | 58         |
| HYDM241865XBL | 24            | 12.0 – 27.6             | 2.1         | 50.4      | 3500        | 445            | 0.82                           | 62         |
| HYDM241865UBL | 24            | 12.0 – 27.6             | 2.65        | 63.6      | 3800        | 480            | 0.88                           | 66         |
| HYDM481865LBL | 48            | 30.0 – 60.0             | 0.12        | 5.8       | 1600        | 220            | 0.38                           | 38         |
| HYDM481865MBL | 48            | 28.0 – 58.0             | 0.3         | 14.5      | 2200        | 295            | 0.55                           | 49         |
| HYDM481865HBL | 48            | 24.0 – 55.0             | 0.48        | 23.5      | 2800        | 360            | 0.72                           | 58         |
| HYDM481865XBL | 48            | 22.0 – 53.0             | 1.03        | 49.4      | 3500        | 445            | 0.82                           | 62         |
| HYDM481865UBL | 48            | 22.0 – 53.0             | 1.3         | 62.4      | 3800        | 480            | 0.88                           | 66         |

## DC FANS

### ø200x70 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** All Metal Fan Blades, High-Performance Metal Impeller

**Ambient Temperature Range:** -20°C ~ +65°C

**Bearing:** Ball Bearing

**Motor Structure:** Permanent Magnet Brushless DC Motor

**Termination:** Terminals or Lead Wire 300 mm

**Weight:** 1,800 g

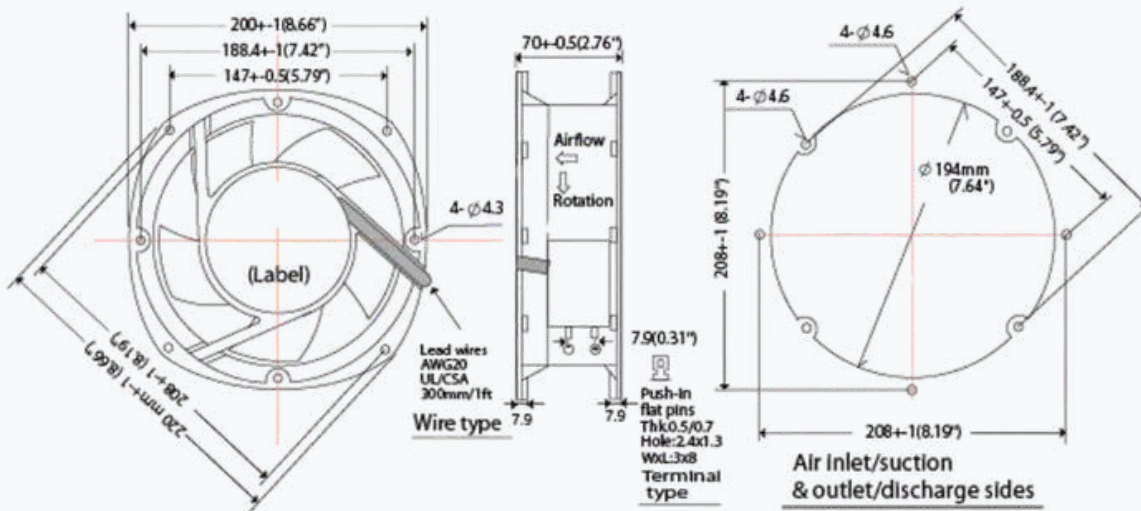


**METAL IMPELLER**

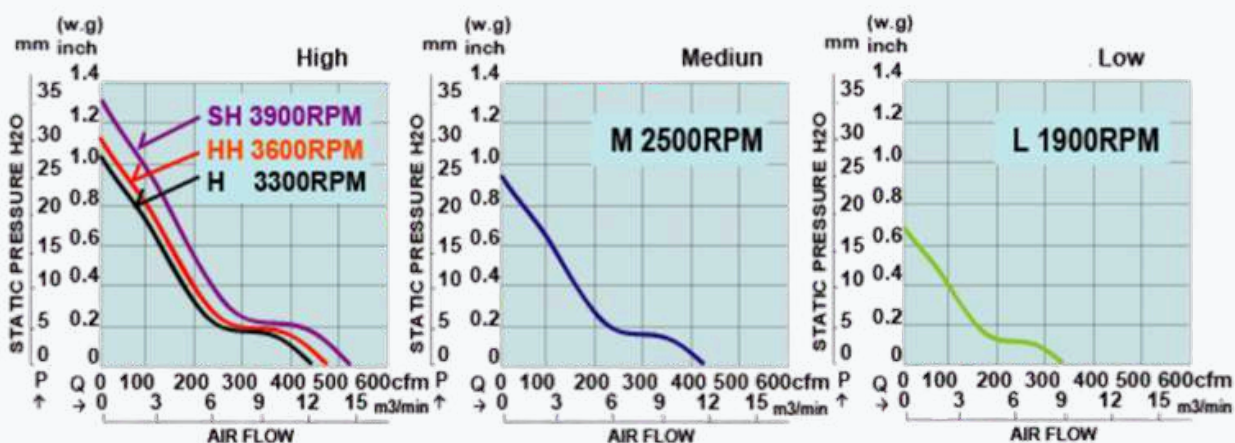
#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Dimensions (mm)



#### Performance Curve



# DC FANS

## ø200x70 mm

### Specifications — Continued

| Model         | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (in-H <sub>2</sub> O) | Noise (dB) |
|---------------|---------------|-------------------------|-------------|-----------|-------------|----------------|--------------------------------|------------|
| HYDM122070LBL | 12            | 9.0 – 14.0              | 0.45        | 5.5       | 1900        | 330            | 0.65                           | 43         |
| HYDM122070MBL | 12            | 9.0 – 13.6              | 1.1         | 13.2      | 2500        | 430            | 0.95                           | 55         |
| HYDM122070HBL | 12            | 9.0 – 13.6              | 1.9         | 23        | 2800        | 395            | 0.88                           | 59         |
| HYDM122070XBL | 12            | 9.0 – 13.6              | 4.2         | 50.4      | 3100        | 420            | 0.98                           | 62         |
| HYDM122070UBL | 12            | 9.0 – 13.6              | 5.4         | 64.8      | 3300        | 440            | 1.05                           | 65         |
| HYDM242070LBL | 24            | 16.0 – 28.0             | 0.2         | 5         | 1900        | 330            | 0.65                           | 42         |
| HYDM242070MBL | 24            | 16.0 – 28.0             | 0.52        | 13        | 2500        | 430            | 0.95                           | 55         |
| HYDM242070HBL | 24            | 16.0 – 27.6             | 0.97        | 24        | 3300        | 440            | 1.05                           | 64         |
| HYDM242070XBL | 24            | 16.0 – 27.6             | 2.1         | 50.4      | 3600        | 475            | 1.15                           | 66         |
| HYDM242070UBL | 24            | 16.0 – 27.6             | 2.65        | 63.6      | 3900        | 510            | 1.25                           | 68         |
| HYDM482070LBL | 48            | 30.0 – 58.0             | 0.12        | 5.8       | 1900        | 330            | 0.65                           | 42         |
| HYDM482070MBL | 48            | 30.0 – 56.0             | 0.3         | 14.5      | 2500        | 430            | 0.95                           | 55         |
| HYDM482070HBL | 48            | 30.0 – 53.0             | 0.48        | 23.5      | 3300        | 440            | 1.05                           | 64         |
| HYDM482070XBL | 48            | 30.0 – 53.0             | 1.03        | 49.4      | 3600        | 475            | 1.15                           | 66         |
| HYDM482070UBL | 48            | 30.0 – 53.0             | 1.3         | 62.4      | 3900        | 510            | 1.25                           | 68         |

## DC FANS

# 225x225x80 mm

(9x9x3.1 in)

### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Die-Cast Aluminum

**Impeller:** Steel

**Ambient Temperature Range:** -10°C ~ +70°C

**Operating Voltage Range:** Rated Voltage  $\pm 10\%$

**Motor Structure:** Permanent Magnet Brushless DC Motor

**Motor Protection:** Locked Rotor Protection / Reverse

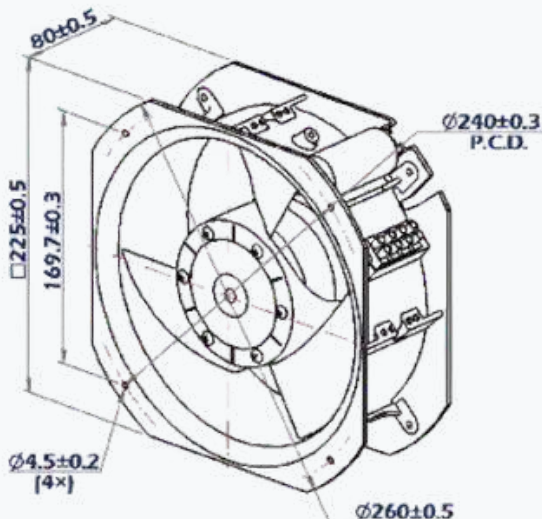
Polarity Protection

**Insulation Class:** Class B **Protection Grade:** IP54

**Optional Functions:** RD / FG / PWM / 0-10 VDC Control

**Weight:** 2,530 g

### Dimensions (mm)



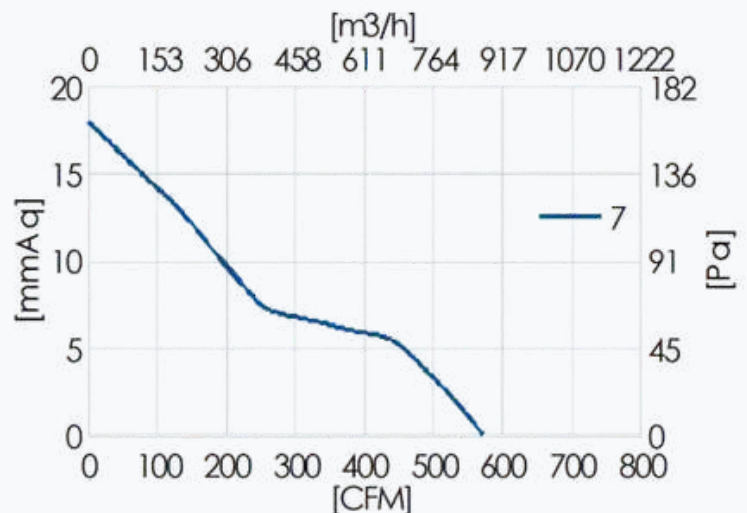
IP54

### METAL IMPELLER

### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

### Performance Curve



| Model       | Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) |
|-------------|---------------|-------------|-------------|----------------|-----------------|------------|
| HYDM62280HB | 24            | 2.2         | 2800        | 580            | 18              | 67         |
| HYDM82280HB | 48            | 1.1         | 2800        | 580            | 18              | 67         |

## DC FANS

### Ø254x89 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Steel

**Ambient Temperature Range:** -10°C ~ +70°C

**Motor Structure:** Permanent Magnet

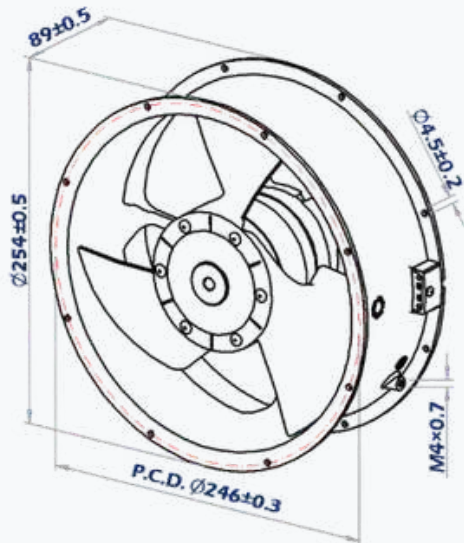
Brushless DC Motor

**Protection Grade:** IP54

**Termination:** Lead wire

**Weight:** 2,550 g

#### Dimensions (mm)



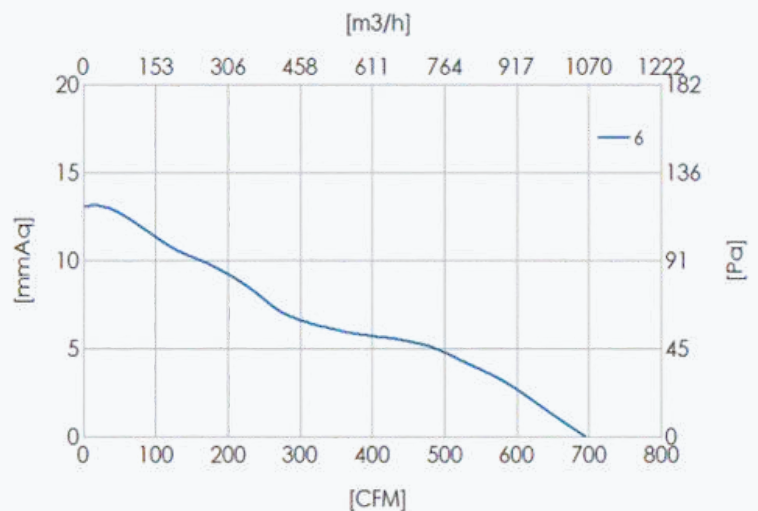
IP54

**METAL IMPELLER**

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model       | Voltage (VDC) | Current (A) | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) |
|-------------|---------------|-------------|-------------|----------------|-----------------|------------|
| HYDM72589HB | 24            | 2.02        | 2800        | 784            | 14.6            | 60         |
| HYDM82589HB | 48            | 1.36        | 2500        | 784            | 14.6            | 60         |



## DC FANS

### 280x280x88.9 mm

#### High Performance DC Cooling Fan

Reliable DC fan for efficient and continuous cooling.

**Frame:** Aluminum

**Impeller:** Metal Blades

**Ambient Temperature Range:** -20°C ~ +65°C

**Bearing:** Ball Bearing

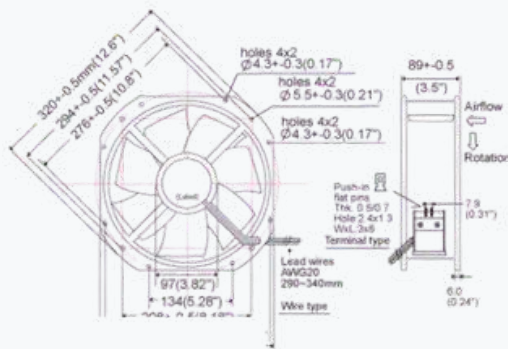
**Motor Structure:** Microprocessor-Controlled Brushless DC Motor

**Motor Protection:** Auto Cutoff / Auto Restart

**Termination:** Lead Wire, 290 mm

**Weight:** 2,950 g

#### Dimensions (mm)

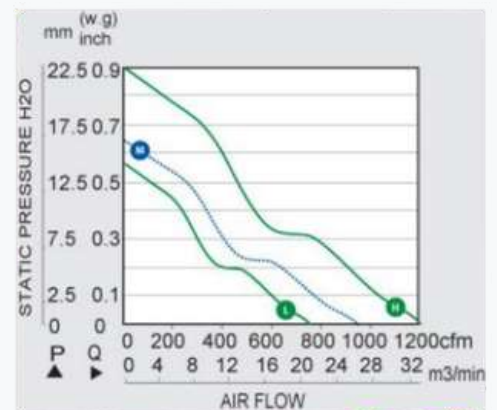


#### METAL IMPELLER

#### Typical Applications

- Industrial Automation
- Communication Equipment
- Power Supplies
- Medical Devices
- Electronic Cooling

#### Performance Curve



| Model         | Voltage (VDC) | Operating Voltage (VDC) | Current (A) | Power (W) | Speed (RPM) | Air flow (CFM) | Pressure (mmAq) | Noise (dB) |
|---------------|---------------|-------------------------|-------------|-----------|-------------|----------------|-----------------|------------|
| HYDM122889LBL | 12            | 9.0 – 13.5              | 2.2         | 26.4      | 1800        | 780            | 0.51            | 48         |
| HYDM122889MBL | 12            | 9.0 – 13.5              | 4.9         | 58.8      | 2200        | 950            | 0.65            | 56         |
| HYDM122889HBL | 12            | 9.0 – 13.5              | 8.7         | 104.4     | 2500        | 1150           | 0.9             | 70         |
| HYDM242889LBL | 24            | 18.0 – 27.6             | 1.1         | 26.4      | 1800        | 780            | 0.55            | 48         |
| HYDM242889MBL | 24            | 18.0 – 27.6             | 2.45        | 58.8      | 2200        | 950            | 0.65            | 56         |
| HYDM242889HBL | 24            | 18.0 – 27.6             | 4.35        | 104.4     | 2550        | 1200           | 0.9             | 72         |
| HYDM482889LBL | 48            | 24.0 – 60.0             | 0.55        | 26.4      | 1800        | 780            | 0.51            | 48         |
| HYDM482889MBL | 48            | 24.0 – 60.0             | 1.2         | 57.6      | 2200        | 950            | 0.65            | 56         |
| HYDM482889HBL | 48            | 24.0 – 60.0             | 2.2         | 105.6     | 2550        | 1200           | 0.9             | 72         |