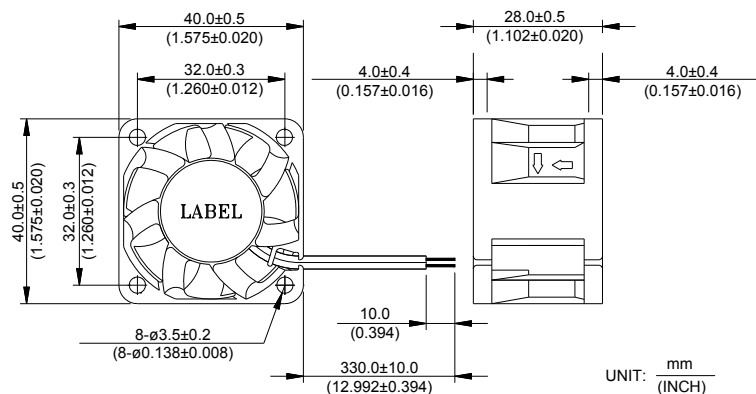




## FFB 40 x 40 x 28 MM SERIES

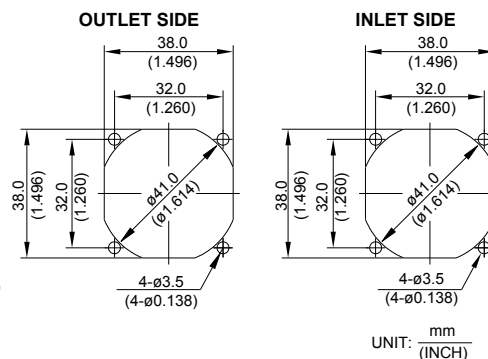
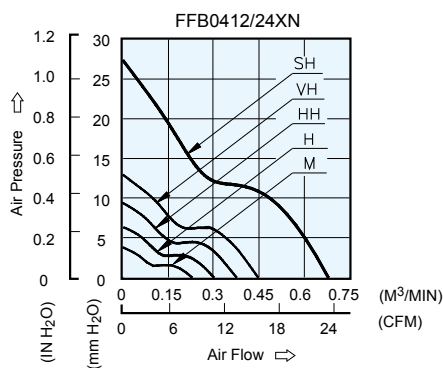
### ■ DIMENSIONS DRAWING



- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Pillow : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1007 AWG #24 OR Equivalent  
Red Wire Positive(+)  
Black Wire Negative(-)
- \* Weight : 32g (1.13 oz)

### ■ P & Q CURVE (AT RATED VOLTAGE)

### ■ MOUNTING PANEL CUTOUT



| MODEL      |           | Rated Voltage | Operating Voltage Range | Input Current | Input Power | Speed  | Maximum Air Flow |       | Maximum Air Pressure |        | Noise |
|------------|-----------|---------------|-------------------------|---------------|-------------|--------|------------------|-------|----------------------|--------|-------|
| PART NO.   | FUNCTION  | VDC           | VDC                     | Amp           | Watt        | R.P.M. | m³/min           | CFM   | mmH₂O                | IN H₂O | dB-A  |
| FFB0412MN  | -R00/-F00 | 12            | 4.5 to 13.8             | 0.05          | 0.60        | 5000   | 0.228            | 8.05  | 3.77                 | 0.148  | 30.0  |
| FFB0424MN  | -R00/-F00 | 24            | 14.0 to 27.6            | 0.04          | 0.96        |        |                  |       |                      |        |       |
| FFB0412HN  | -R00/-F00 | 12            | 4.5 to 13.8             | 0.07          | 0.84        | 6500   | 0.300            | 10.59 | 6.30                 | 0.248  | 36.0  |
| FFB0424HN  | -R00/-F00 | 24            | 14.0 to 27.6            | 0.06          | 1.44        |        |                  |       |                      |        |       |
| FFB0412HHN | -R00/-F00 | 12            | 4.5 to 13.8             | 0.11          | 1.32        | 8000   | 0.375            | 13.24 | 9.39                 | 0.370  | 41.0  |
| FFB0424HHN | -R00/-F00 | 24            | 14.0 to 27.6            | 0.08          | 1.92        |        |                  |       |                      |        |       |
| FFB0412VHN | -R00/-F00 | 12            | 4.5 to 13.8             | 0.16          | 1.92        | 9500   | 0.447            | 15.79 | 12.94                | 0.509  | 45.0  |
| FFB0424VHN | -R00/-F00 | 24            | 14.0 to 26.4            | 0.10          | 2.40        |        |                  |       |                      |        |       |
| FFB0412SHN | -R00/-F00 | 12            | 4.5 to 13.8             | 0.50          | 6.00        | 13000  | 0.680            | 24.00 | 27.30                | 1.075  | 54.5  |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.

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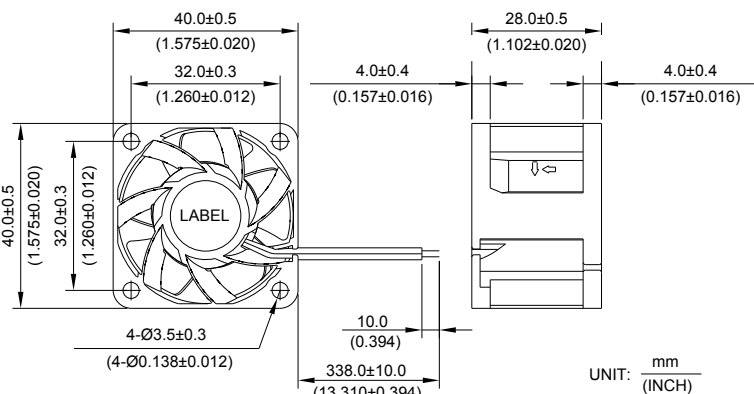


## FFB 40 x 40 x 28 MM SERIES

### ■ DIMENSIONS DRAWING

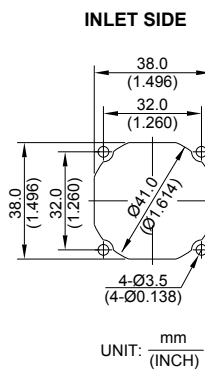
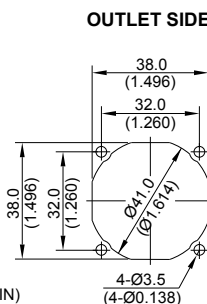
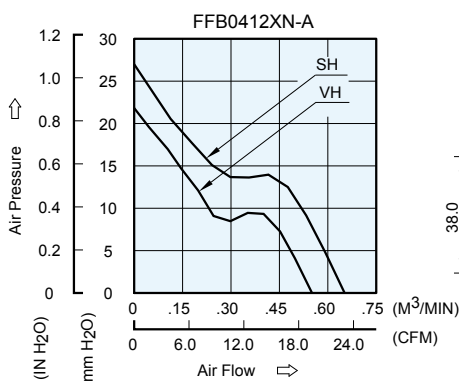


- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Pillow : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1061 AWG #24 OR Equivalent  
Red Wire Positive(+)  
Black Wire Negative(-)
- \* Weight : 35g (1.23 oz)



### ■ P & Q CURVE (AT RATED VOLTAGE)

### ■ MOUNTING PANEL CUTOUT



| MODEL      |      |           | Rated Voltage | Operating Voltage Range | Input Current | Input Power | Speed  | Maximum Air Flow    |       | Maximum Air Pressure |                     | Noise |
|------------|------|-----------|---------------|-------------------------|---------------|-------------|--------|---------------------|-------|----------------------|---------------------|-------|
| PART NO.   | REV. | FUNCTION  | VDC           | VDC                     | Amp           | Watt        | R.P.M. | m <sup>3</sup> /min | CFM   | mmH <sub>2</sub> O   | IN H <sub>2</sub> O | dB-A  |
| FFB0412VHN | -A   | -R00/-F00 | 12            | 4.0 to 12.6             | 0.30          | 3.60        | 11000  | 0.543               | 19.16 | 18.99                | 0.748               | 48.5  |
| FFB0412SHN | -A   | -R00/-F00 | 12            | 4.0 to 12.6             | 0.40          | 4.80        | 13000  | 0.653               | 23.05 | 27.07                | 1.066               | 52.5  |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.

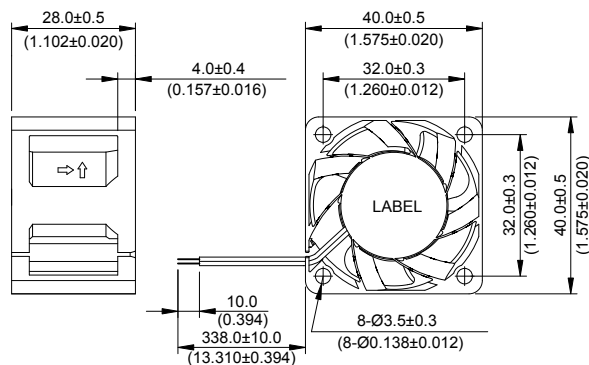


*New*



## FFB 40 x 40 x 28 MM SERIES

### ■ DIMENSIONS DRAWING

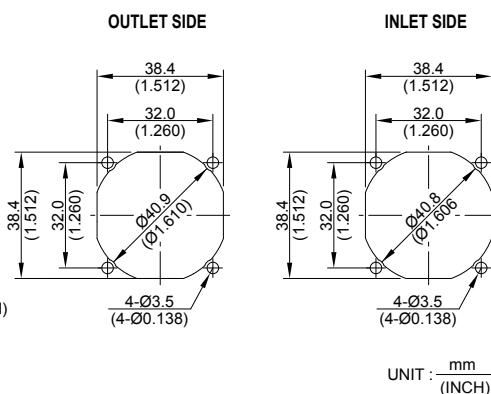
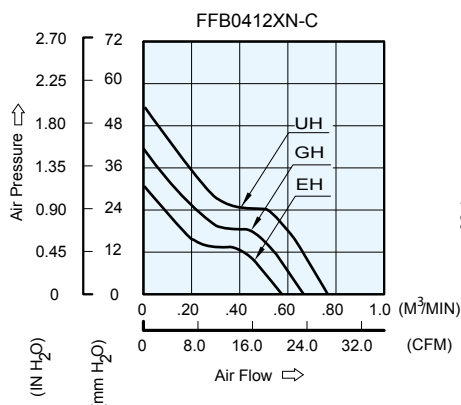


UNIT :  $\frac{\text{mm}}{(\text{INCH})}$

- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Frame : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1061 AWG #26 OR Equivalent  
Red Wire Positive(+)  
Black Wire Negative(-)
- \* Weight : 47g (1.66 oz)

### ■ P & Q CURVE (AT RATED VOLTAGE)

### ■ MOUNTING PANEL CUTOUT



UNIT :  $\frac{\text{mm}}{(\text{INCH})}$

| MODEL      |      |             | Rated Voltage | Operating Voltage Range | Rated Current | Rated Input Power | Speed  | Maximum Air Flow    |       | Maximum Air Pressure |                     | Noise |
|------------|------|-------------|---------------|-------------------------|---------------|-------------------|--------|---------------------|-------|----------------------|---------------------|-------|
| PART NO.   | REV. | FUNCTION    | VDC           | VDC                     | Amp           | Watt              | R.P.M. | m <sup>3</sup> /min | CFM   | mmH <sub>2</sub> O   | IN H <sub>2</sub> O | dB-A  |
| FFB0412EHN | -C   | -R00 / -F00 | 12            | 5.5 to 13.2             | 0.33          | 3.96              | 14500  | 0.576               | 20.34 | 31.28                | 1.232               | 53.0  |
| FFB0412GHN | -C   | -R00 / -F00 | 12            | 5.5 to 13.2             | 0.50          | 6.00              | 16500  | 0.662               | 23.39 | 41.60                | 1.638               | 56.0  |
| FFB0412UHN | -C   | -R00 / -F00 | 12            | 5.5 to 13.2             | 0.65          | 7.80              | 18500  | 0.766               | 27.05 | 53.63                | 2.111               | 58.5  |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.



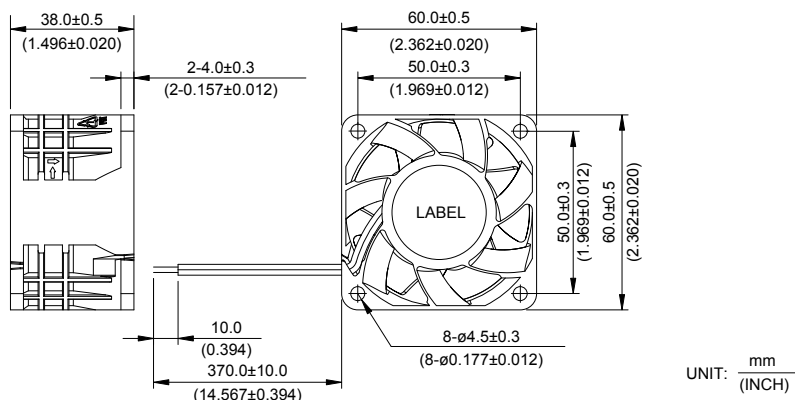
*New*



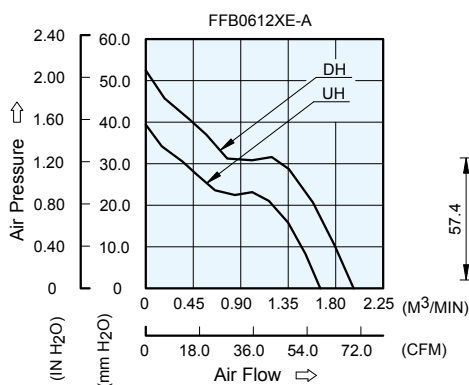
- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Frame : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1061 AWG #24 OR Equivalent  
Red Wire Positive(+)  
Black Wire Negative(-)
- \* Weight : 130g (4.59 oz)

## FFB 60 x 60 x 38 MM SERIES

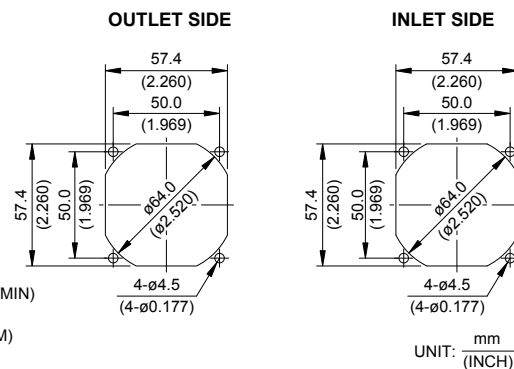
### ■ DIMENSIONS DRAWING



### ■ P & Q CURVE (AT RATED VOLTAGE)



### ■ MOUNTING PANEL CUTOUT



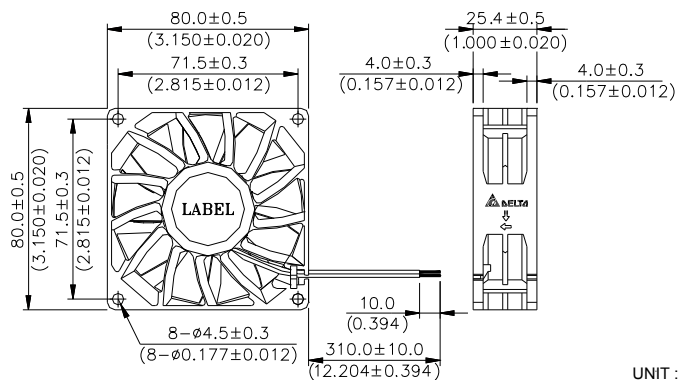
| MODEL      |      |           | Rated Voltage | Operating Voltage Range | Input Current | Input Power | Speed  | Maximum Air Flow    |       | Maximum Air Pressure |                     | Noise |
|------------|------|-----------|---------------|-------------------------|---------------|-------------|--------|---------------------|-------|----------------------|---------------------|-------|
| PART NO.   | REV. | FUNCTION  | VDC           | VDC                     | Amp           | Watt        | R.P.M. | m <sup>3</sup> /min | CFM   | mmH <sub>2</sub> O   | IN H <sub>2</sub> O | dB-A  |
| FFB0612UHE | -A   | R00 / F00 | 12            | 7.0 to 13.2             | 0.90          | 10.80       | 11000  | 1.654               | 58.42 | 39.40                | 1.551               | 60.0  |
| FFB0612DHE | -A   | R00 / F00 | 12            | 7.0 to 13.2             | 1.50          | 18.00       | 13000  | 1.970               | 69.55 | 52.47                | 2.066               | 64.0  |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.



## FFB 80 x 80 x 25.4 MM SERIES

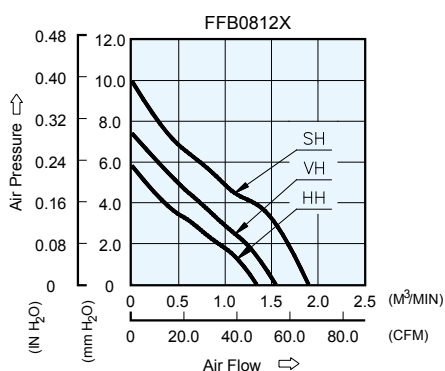
### ■ DIMENSIONS DRAWING



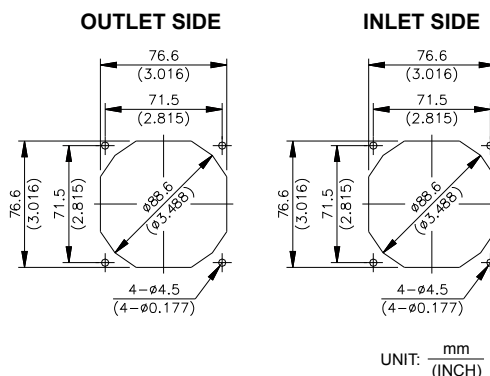
UNIT:  $\frac{\text{mm}}{(\text{INCH})}$

- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Frame : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1007 AWG #24 OR Equivalent  
Red Wire Positive(+)  
Black Wire Negative(-)
- \* Weight : 115g (4.06 oz)

### ■ P & Q CURVE (AT RATED VOLTAGE)



### ■ MOUNTING PANEL CUTOUT



UNIT:  $\frac{\text{mm}}{(\text{INCH})}$

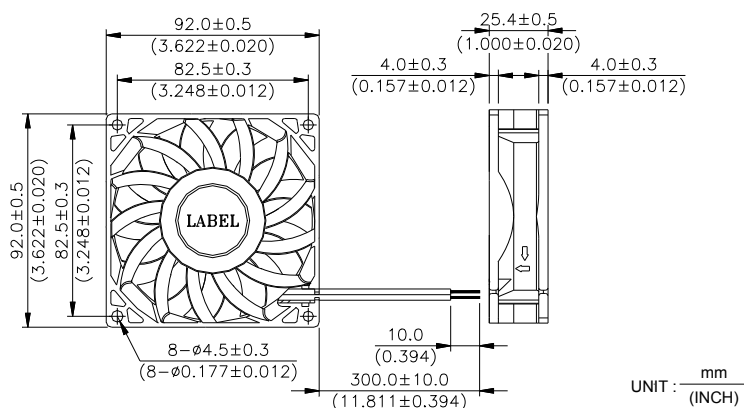
| MODEL     |             | Rated Voltage | Operating Voltage Range | Input Current | Input Power | Speed  | Maximum Air Flow    |       | Maximum Air Pressure |                     | Noise |
|-----------|-------------|---------------|-------------------------|---------------|-------------|--------|---------------------|-------|----------------------|---------------------|-------|
| PART NO.  | FUNCTION    | VDC           | VDC                     | Amp           | Watt        | R.P.M. | m <sup>3</sup> /min | CFM   | mmH <sub>2</sub> O   | IN H <sub>2</sub> O | dB-A  |
| FFB0812HH | -R00 / -F00 | 12            | 7.0 to 13.2             | 0.26          | 3.12        | 3500   | 1.339               | 47.22 | 5.81                 | 0.229               | 41.7  |
| FFB0812VH | -R00 / -F00 | 12            | 7.0 to 13.2             | 0.34          | 4.08        | 4000   | 1.545               | 54.56 | 7.39                 | 0.291               | 45.4  |
| FFB0812SH | -R00 / -F00 | 12            | 7.0 to 13.2             | 0.50          | 6.00        | 4500   | 1.898               | 67.02 | 9.95                 | 0.392               | 48.6  |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.



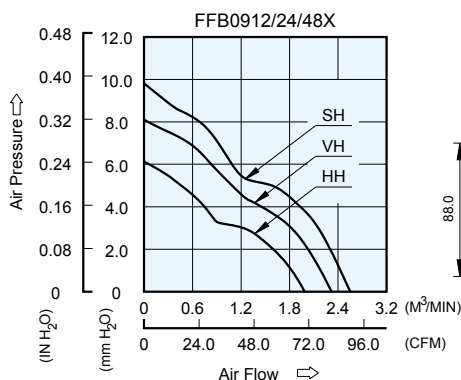
## FFB 92 x 92 x 25.4 MM SERIES

### ■ DIMENSIONS DRAWING

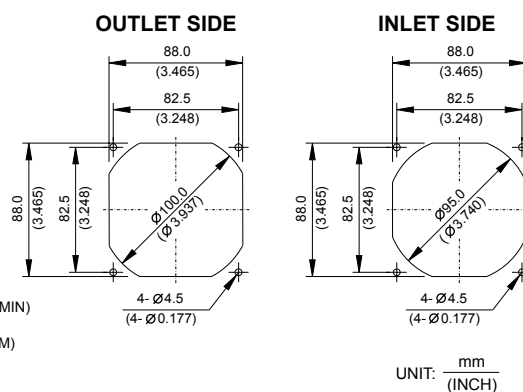


- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Frame : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1007 AWG #24 OR Equivalent  
Red Wire Positive (+)  
Black Wire Negative (-)
- \* Weight : 128g (4.51 oz)

### ■ P & Q CURVE (AT RATED VOLTAGE)



### ■ MOUNTING PANEL CUTOUT



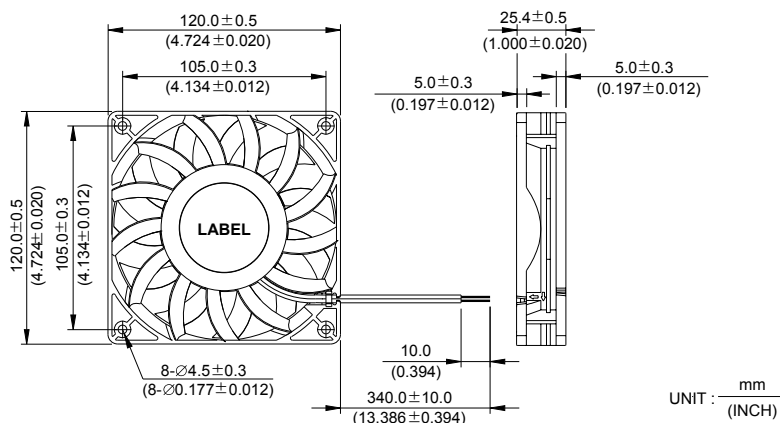
| MODEL     |             | Rated Voltage | Operating Voltage Range | Input Current | Input Power | Speed  | Maximum Air Flow    |       | Maximum Air Pressure |                     | Noise |
|-----------|-------------|---------------|-------------------------|---------------|-------------|--------|---------------------|-------|----------------------|---------------------|-------|
| PART NO.  | FUNCTION    | VDC           | VDC                     | Amp           | Watt        | R.P.M. | m <sup>3</sup> /min | CFM   | mmH <sub>2</sub> O   | IN H <sub>2</sub> O | dB-A  |
| FFB0912HH | -R00 / -F00 | 12            | 7.0 to 13.8             | 0.40          | 4.80        | 3200   | 1.988               | 70.21 | 6.14                 | 0.242               | 44.1  |
| FFB0924HH | -R00 / -F00 | 24            | 14.0 to 27.6            | 0.24          | 5.76        |        |                     |       |                      |                     |       |
| FFB0948HH | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.14          | 6.72        |        |                     |       |                      |                     |       |
| FFB0912VH | -R00 / -F00 | 12            | 7.0 to 13.8             | 0.60          | 7.20        | 3700   | 2.321               | 81.97 | 8.11                 | 0.319               | 48.2  |
| FFB0924VH | -R00 / -F00 | 24            | 14.0 to 27.6            | 0.31          | 7.44        |        |                     |       |                      |                     |       |
| FFB0948VH | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.17          | 8.16        |        |                     |       |                      |                     |       |
| FFB0912SH | -R00 / -F00 | 12            | 7.0 to 13.8             | 0.69          | 8.28        | 4100   | 2.550               | 90.05 | 10.06                | 0.396               | 50.0  |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.



## FFB 120 x 120 x 25.4 MM SERIES

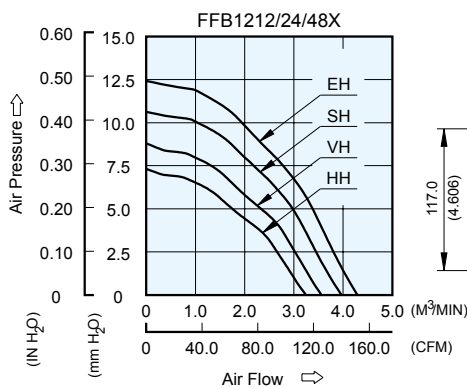
### ■ DIMENSIONS DRAWING



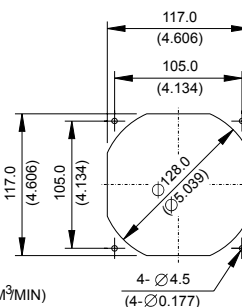
- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Frame : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1007 AWG #24 OR Equivalent  
Red Wire Positive (+)  
Black Wire Negative (-)
- \* Weight : 205g (7.23 oz)

### ■ P & Q CURVE (AT RATED VOLTAGE)

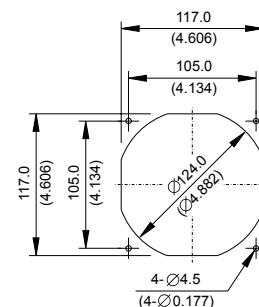
### ■ MOUNTING PANEL CUTOUT



#### OUTLET SIDE



#### INLET SIDE



| MODEL     |             | Rated Voltage | Operating Voltage Range | Input Current | Input Power | Speed  | Maximum Air Flow    |        | Maximum Air Pressure |                     | Noise |
|-----------|-------------|---------------|-------------------------|---------------|-------------|--------|---------------------|--------|----------------------|---------------------|-------|
| PART NO.  | FUNCTION    | VDC           | VDC                     | Amp           | Watt        | R.P.M. | m <sup>3</sup> /min | CFM    | mmH <sub>2</sub> O   | IN H <sub>2</sub> O | dB-A  |
| FFB1212HH | -R00 / -F00 | 12            | 7.0 to 13.2             | 0.65          | 7.80        | 3100   | 3.249               | 114.73 | 7.32                 | 0.288               | 49.7  |
| FFB1224HH | -R00 / -F00 | 24            | 14.0 to 26.4            | 0.28          | 6.72        |        |                     |        |                      |                     |       |
| FFB1248HH | -R00 / -F00 | 48            | 28.0 to 56.0            | 0.14          | 6.72        |        |                     |        |                      |                     |       |
| FFB1212VH | -R00 / -F00 | 12            | 7.0 to 13.2             | 0.79          | 9.48        | 3400   | 3.592               | 126.85 | 8.29                 | 0.326               | 51.9  |
| FFB1224VH | -R00 / -F00 | 24            | 14.0 to 26.4            | 0.37          | 8.88        |        |                     |        |                      |                     |       |
| FFB1248VH | -R00 / -F00 | 48            | 28.0 to 56.0            | 0.18          | 8.64        |        |                     |        |                      |                     |       |
| FFB1212SH | -R00 / -F00 | 12            | 7.0 to 13.2             | 1.03          | 12.36       | 3700   | 3.969               | 140.16 | 10.64                | 0.419               | 54.3  |
| FFB1224SH | -R00 / -F00 | 24            | 14.0 to 26.4            | 0.52          | 12.48       |        |                     |        |                      |                     |       |
| FFB1248SH | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.25          | 12.00       |        |                     |        |                      |                     |       |
| FFB1212EH | -R00 / -F00 | 12            | 7.0 to 13.2             | 1.45          | 17.40       | 4000   | 4.257               | 150.33 | 12.43                | 0.489               | 56.4  |
| FFB1224EH | -R00 / -F00 | 24            | 14.0 to 26.4            | 0.63          | 15.12       |        |                     |        |                      |                     |       |
| FFB1248EH | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.32          | 15.36       |        |                     |        |                      |                     |       |

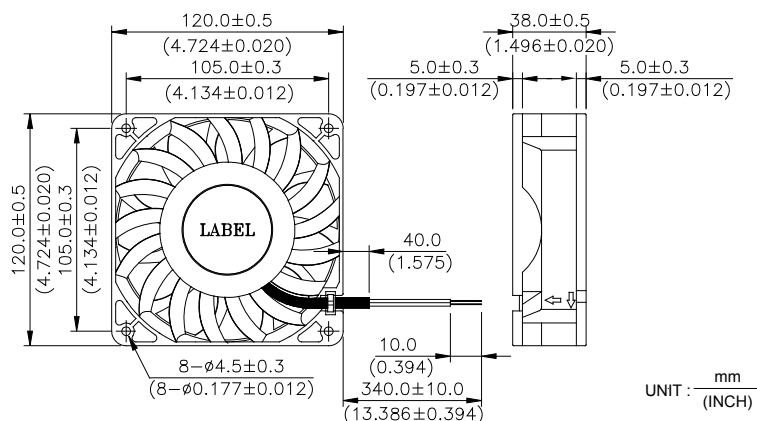
- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.

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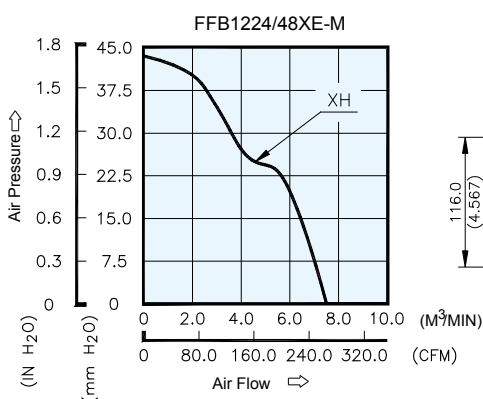
## FFB 120 x 120 x 38 MM SERIES

### ■ DIMENSIONS DRAWING

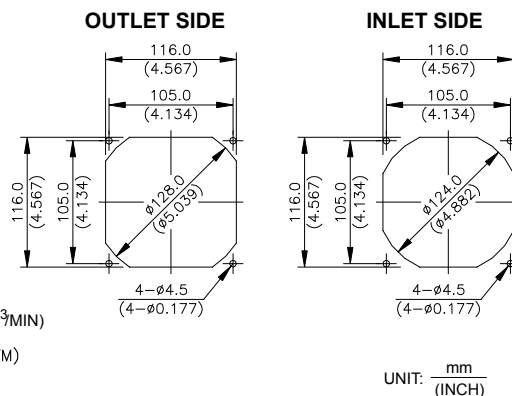


- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller : Plastic (UL 94V-0)  
Frame: Die-cast Aluminum
- \* Lead Wires :  
UL 1007 AWG #22 OR Equivalent  
Red Wire Positive(+)  
Black Wire Negative(-)
- \* Weight : 470g (16.58 oz)

### ■ P & Q CURVE (AT RATED VOLTAGE)



### ■ MOUNTING PANEL CUTOUT



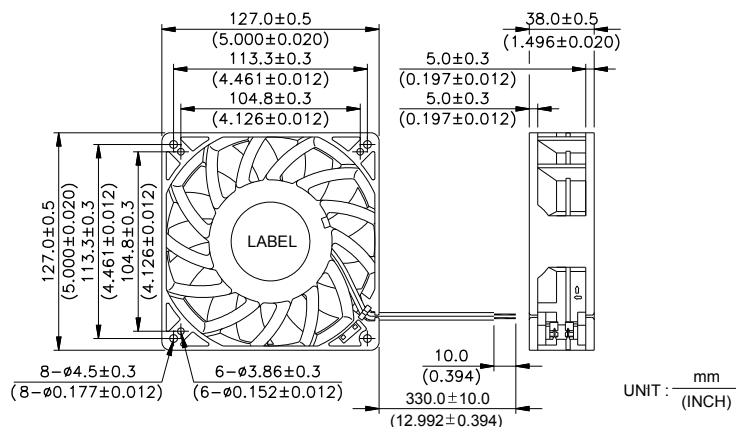
| MODEL      |      |             | Rated Voltage | Operating Voltage Range | Rated Current | Rated Input Power | Speed  | Maximum Air Flow |        | Maximum Air Pressure |                     | Noise |
|------------|------|-------------|---------------|-------------------------|---------------|-------------------|--------|------------------|--------|----------------------|---------------------|-------|
| PART NO.   | REV. | FUNCTION    | VDC           | VDC                     | Amp           | Watt              | R.P.M. | m³/min           | CFM    | mmH <sub>2</sub> O   | IN H <sub>2</sub> O | dB-A  |
| FFB1224XHE | -M   | -R00 / -F00 | 24            | 14.0 to 26.4            | 3.25          | 78.00             | 6300   | 7.493            | 264.62 | 43.31                | 1.705               | 73.5  |
| FFB1248XHE | -M   | -R00 / -F00 | 48            | 28.0 to 54.0            | 1.65          | 79.20             |        |                  |        |                      |                     |       |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.



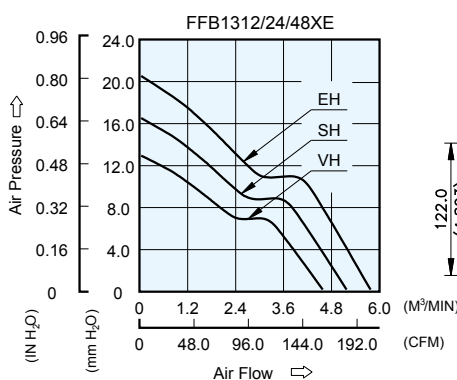
## FFB 127 x 127 x 38 MM SERIES

### ■ DIMENSIONS DRAWING

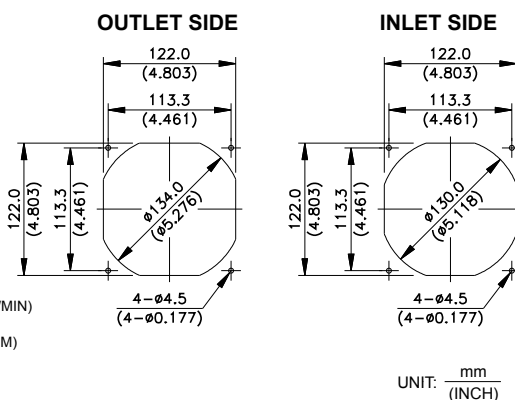


- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Frame : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1007 AWG #24 OR Equivalent  
Red Wire Positive (+)  
Black Wire Negative (-)
- \* Weight : 470g (16.58 oz)

### ■ P & Q CURVE (AT RATED VOLTAGE)



### ■ MOUNTING PANEL CUTOUT



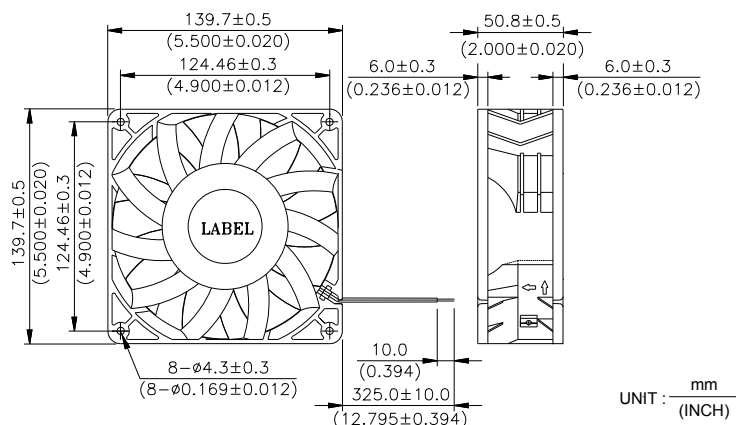
| MODEL      |             | Rated Voltage | Operating Voltage Range | Input Current | Input Power | Speed  | Maximum Air Flow |        | Maximum Air Pressure |        | Noise |
|------------|-------------|---------------|-------------------------|---------------|-------------|--------|------------------|--------|----------------------|--------|-------|
| PART NO.   | FUNCTION    | VDC           | VDC                     | Amp           | Watt        | R.P.M. | m³/min           | CFM    | mmH₂O                | IN H₂O | dB-A  |
| FFB1312VHE | -R00 / -F00 | 12            | 7.0 to 13.2             | 1.32          | 15.84       | 3050   | 4.531            | 160.01 | 12.80                | 0.504  | 53.0  |
| FFB1324VHE | -R00 / -F00 | 24            | 14.0 to 26.4            | 0.60          | 14.40       |        |                  |        |                      |        |       |
| FFB1348VHE | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.33          | 15.84       |        |                  |        |                      |        |       |
| FFB1312SHE | -R00 / -F00 | 12            | 7.0 to 13.2             | 1.85          | 22.20       | 3450   | 5.097            | 180.00 | 16.30                | 0.642  | 56.5  |
| FFB1324SHE | -R00 / -F00 | 24            | 14.0 to 26.4            | 0.84          | 20.16       |        |                  |        |                      |        |       |
| FFB1348SHE | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.45          | 21.60       |        |                  |        |                      |        |       |
| FFB1312EHE | -R00 / -F00 | 12            | 8.5 to 13.2             | 2.74          | 32.88       | 3850   | 5.664            | 200.02 | 20.30                | 0.799  | 59.5  |
| FFB1324EHE | -R00 / -F00 | 24            | 14.0 to 26.4            | 1.20          | 28.80       |        |                  |        |                      |        |       |
| FFB1348EHE | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.67          | 32.16       |        |                  |        |                      |        |       |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.



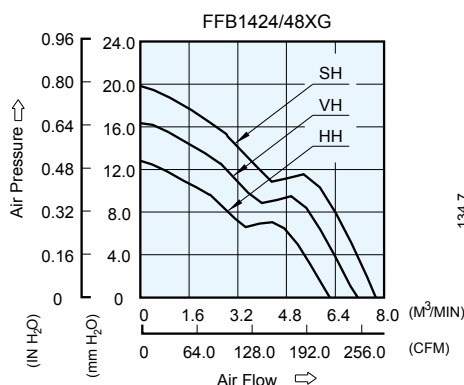
## FFB 140 x 140 x 50.8 MM SERIES

### ■ DIMENSIONS DRAWING

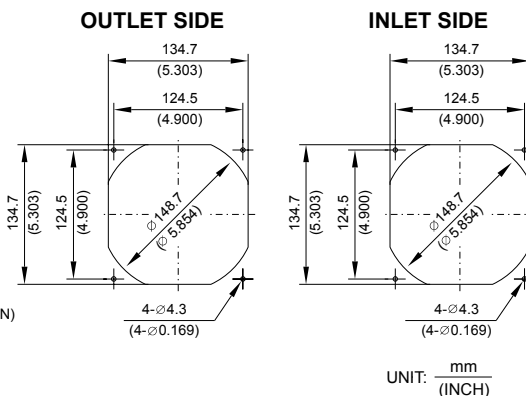


- \* Bearing Type  
Ball Bearings
- \* Material  
Impeller & Frame : Plastic (UL 94V-0)
- \* Lead Wires :  
UL 1430 AWG #22 OR Equivalent  
Red Wire Positive (+)  
Black Wire Negative (-)
- \* Weight : 670g (23.63 oz)

### ■ P & Q CURVE (AT RATED VOLTAGE)



### ■ MOUNTING PANEL CUTOUT



| MODEL      |             | Rated Voltage | Operating Voltage Range | Rated Current | Rated Input Power | Speed  | Maximum Air Flow    |        | Maximum Air Pressure |                     | Noise |
|------------|-------------|---------------|-------------------------|---------------|-------------------|--------|---------------------|--------|----------------------|---------------------|-------|
| PART NO.   | FUNCTION    | VDC           | VDC                     | Amp           | Watt              | R.P.M. | m <sup>3</sup> /min | CFM    | mmH <sub>2</sub> O   | IN H <sub>2</sub> O | dB-A  |
| FFB1424HHG | -R00 / -F00 | 24            | 14.0 to 26.4            | 0.71          | 17.04             | 2800   | 6.222               | 219.73 | 12.84                | 0.506               | 54.5  |
| FFB1448HHG | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.36          | 17.28             |        |                     |        |                      |                     |       |
| FFB1424VHG | -R00 / -F00 | 24            | 14.0 to 26.4            | 0.91          | 21.84             | 3200   | 7.139               | 252.11 | 16.36                | 0.644               | 58.5  |
| FFB1448VHG | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.50          | 24.00             |        |                     |        |                      |                     |       |
| FFB1424SHG | -R00 / -F00 | 24            | 14.0 to 26.4            | 1.53          | 36.72             | 3600   | 7.733               | 273.09 | 19.84                | 0.781               | 61.7  |
| FFB1448SHG | -R00 / -F00 | 48            | 28.0 to 53.0            | 0.77          | 36.96             |        |                     |        |                      |                     |       |

- \* Function type is optional.
- \* The max. air flow and the speed are measured in free air ; max. air pressure is measured at zero air flow.
- \* Noise is measured in anechoic chamber in free air, one meter from intake side.
- \* All readings are typical values at rated voltage.
- \* Specifications are subject to change without notice.