

Box Fan R87B

CSM_R87B_DS_E_4_2

Comprehensive Lineup of Single, Double, and Triple Axial Fans with Easy One-step Mounting

- Mounts in a square cutout and conceals the hole-cut to simplify installation work.
- Cover can be set to open either upward or downward for convenience in confined spaces.
- Enhanced accessories (finger guard, filter, plug cord, mounting screws).
- Optional Replacement Filter and Vent Attachment.
- The lineup includes Single, Double, and Triple Box Fans with eight models with plastic blades and eight models with metal blades.



 Refer to *Safety Precautions for All Axial Fans*.

Model Number Structure

Model Number Legend

R87B- A15 PF

1 2 3 4 5

Attachment

R87B-N

1 5

Options and Accessories

R87B-P

1 6 7

| Number | Category | Symbol | Meaning of symbol |
|--------|-----------------------------|-------------|--|
| 1 | Fan (blade material) | F T N | R87F Axial Fan (with plastic blades) R87T Axial Fan (with metal blades) No fan |
| | Optional parts | P | Options and accessories |
| 2 | Power supply classification | A1 | 100 VAC |
| | | A3 | 115 VAC |
| | | A4 | 200 VAC |
| | | A6 | 230 VAC |
| 3 | Speed classification | H | High speed |
| | | M | Middle speed |
| | | L | Low speed |
| 4 | Airflow direction | None | In |
| | | R | Out |
| 5 | Number of fans | None | 1 |
| | | 2 | 2 |
| | | 3 | 3 |
| 6 | Part type | F | Filter |
| 7 | Reference number | 01 | --- |

Note: These tables show only how to read model numbers. They do not indicate which products are available. Refer to "Ratings and Ordering Information" when placing an order.

Ordering Information

| Type | Number of fans | Model | Accessories |
|------------------------------|----------------|-------------------------------|---|
| Plastic blades High speed | 1 | R87B-FA <u> </u> A15HPF(R) | Filter Finger guard Plug cord Mounting bolts |
| | 2 | R87B-FA <u> </u> A15HPF(R)2 | |
| | 3 | R87B-FA <u> </u> A15HPF(R)3 | |
| Plastic blades Low speed | 1 | R87B-FA <u> </u> A15LPPF(R) | |
| | 2 | R87B-FA <u> </u> A15LPPF(R)2 | |
| | 3 | R87B-FA <u> </u> A15LPPF(R)3 | |
| Metal blades High speed | 1 | R87B-TA <u> </u> A15HPF(R) | |
| | 2 | R87B-TA <u> </u> A15HPF(R)2 | |
| | 3 | R87B-TA <u> </u> A15HPF(R)3 | |
| Metal blades Medium speed | 1 | R87B-TA <u> </u> A15MPF(R) | |
| | 2 | R87B-TA <u> </u> A15MPF(R)2 | |
| | 3 | R87B-TA <u> </u> A15MPF(R)3 | |
| Attachment | For 1 | R87B-N | Filter Finger guard Mounting screws |
| | For 2 | R87B-N2 | |
| | For 3 | R87B-N3 | |
| Replacement Filter | Any | R87B-PF01 | Set of two filters |

Ratings and Ordering Information

| Item | Model | R87B-F | R87B-T |
|-------------------------------|--------|--|---|
| Motor type | | Single-phase shading coil induction motor (2-pole, open type) | |
| Terminal type | | Terminals | |
| Insulation class | | IEC class B (130°C) UL class A (105°C) CSA class A (105°C) | IEC class B (130°C) UL class A (105°C) |
| Insulation resistance | | 100 MΩ min. (at 500 VDC) Between all power supply connection parts and non-current carrying metal parts | |
| Dielectric strength | | 2,000 VAC for 1 min Between all power supply connection parts and non-current carrying metal parts | |
| Ambient operating temperature | | -30 to 70°C (with no icing) | -20 to 70°C (with no icing) |
| Storage temperature | | -40 to 85°C (with no icing) | |
| Ambient humidity | | 25% to 85% | |
| Protection | | Impedance protection | |
| Materials | Frame | Die-cast aluminum | |
| | Blades | Glass polycarbonate | Steel plate (black coating) |
| Bearings | | Ball bearings | |
| Compliant standards* | | PSE, EN/IEC 60335 (CE self-declaration) | |
| Certified standards* | | UL/CSA | UL |

Note: The rated current is the total for all fans.

* The compliant standards and certified standards apply to the listed Axial Fans.

Safety Precautions

Refer to *Safety Precautions for All Axial Fans*.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

Ratings and Ordering Information

Airflow Direction: In

| Item Model | Rated voltage (V) | Permitted voltage fluctuation range (%) | Frequency (Hz) | Rated rotational speed (r/min) * | | Maximum flow rate (m ³ /min) * | | Maximum static pressure (Pa) * | | Noise (dB) * | | Weight |
|----------------|-------------------|---|----------------|----------------------------------|-------|---|-------|--------------------------------|-------|--------------|-------|-----------------|
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| R87B-FA1A15HPF | 100 | 85% to 110% rated voltage | 50/60 | 2,700 | 3,100 | 1.3 | 1.5 | 91 | 85 | 49 | 52 | Approx. 1,120 g |
| R87B-FA3A15HPF | 115 | | | | | | | | | | | |
| R87B-FA4A15HPF | 200 | | | | | | | | | | | |
| R87B-FA6A15HPF | 230 | | | | | | | | | | | |
| R87B-FA1A15LPF | 100 | 85% to 110% rated voltage | 50/60 | 2,100 | 2,200 | 0.9 | 1.0 | 43 | 42 | 42 | 43 | |
| R87B-FA3A15LPF | 115 | | | | | | | | | | | |
| R87B-FA4A15LPF | 200 | | | | | | | | | | | |
| R87B-FA6A15LPF | 230 | | | | | | | | | | | |
| R87B-TA1A15HPF | 100 | 85% to 110% rated voltage | 50/60 | 2,650 | 3,000 | 1.1 | 1.3 | 67 | 63 | 45 | 48 | Approx. 1,150 g |
| R87B-TA3A15HPF | 115 | | | | | | | | | | | |
| R87B-TA4A15HPF | 200 | | | | | | | | | | | |
| R87B-TA6A15HPF | 230 | | | | | | | | | | | |
| R87B-TA1A15MPF | 100 | 85% to 110% rated voltage | 50/60 | 2,300 | 2,600 | 0.8 | 1.0 | 41 | 45 | 41 | 44 | |
| R87B-TA3A15MPF | 115 | | | | | | | | | | | |
| R87B-TA4A15MPF | 200 | | | | | | | | | | | |
| R87B-TA6A15MPF | 230 | | | | | | | | | | | |

Note: An asterisk (*) indicates a nominal value.

Airflow Direction: Out

| Item Model | Rated voltage (V) | Permitted voltage fluctuation range (%) | Frequency (Hz) | Rated rotational speed (r/min) * | | Maximum flow rate (m ³ /min) * | | Maximum static pressure (Pa) * | | Noise (dB) * | | Weight |
|-----------------|-------------------|---|----------------|----------------------------------|-------|---|-------|--------------------------------|-------|--------------|-------|-----------------|
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| R87B-FA1A15HPFR | 100 | 85% to 110% rated voltage | 50/60 | 2,700 | 3,100 | 1.3 | 1.5 | 91 | 85 | 49 | 52 | Approx. 1,120 g |
| R87B-FA3A15HPFR | 115 | | | | | | | | | | | |
| R87B-FA4A15HPFR | 200 | | | | | | | | | | | |
| R87B-FA6A15HPFR | 230 | | | | | | | | | | | |
| R87B-FA1A15LPFR | 100 | 85% to 110% rated voltage | 50/60 | 2,100 | 2,200 | 0.9 | 1.0 | 43 | 42 | 42 | 43 | |
| R87B-FA3A15LPFR | 115 | | | | | | | | | | | |
| R87B-FA4A15LPFR | 200 | | | | | | | | | | | |
| R87B-FA6A15LPFR | 230 | | | | | | | | | | | |
| R87B-TA1A15HPFR | 100 | 85% to 110% rated voltage | 50/60 | 2,650 | 3,000 | 1.1 | 1.3 | 67 | 63 | 45 | 48 | Approx. 1,150 g |
| R87B-TA3A15HPFR | 115 | | | | | | | | | | | |
| R87B-TA4A15HPFR | 200 | | | | | | | | | | | |
| R87B-TA6A15HPFR | 230 | | | | | | | | | | | |
| R87B-TA1A15MPFR | 100 | 85% to 110% rated voltage | 50/60 | 2,300 | 2,600 | 0.8 | 1.0 | 41 | 45 | 41 | 44 | |
| R87B-TA3A15MPFR | 115 | | | | | | | | | | | |
| R87B-TA4A15MPFR | 200 | | | | | | | | | | | |
| R87B-TA6A15MPFR | 230 | | | | | | | | | | | |

Note: An asterisk (*) indicates a nominal value.

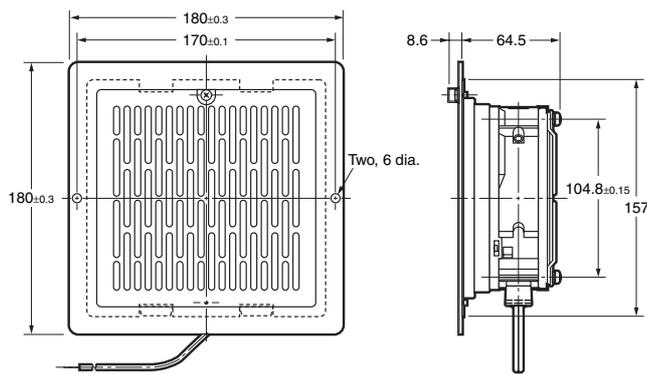
- The data in this table comes from measurements that were taken with the filter and cover attached.
- The model number of the AC Axial Fan in the Box Fan can be determined from the model number of the Box Fan as follows:

R87B-FA1A15HPF→R87F-A1A15HP

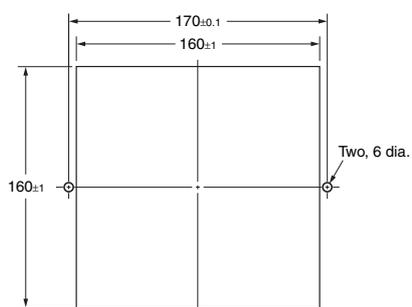
The model number of the Axial Fan can be determined by extracting the underlined portions from the model number of the Box Fan as shown.

Dimensions

(Unit: mm)



Panel Cutout Dimensions



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Double Box Fan

R87B-□A□A15□PF(R)2

Ratings and Ordering Information

Airflow Direction: In

| Item Model | Rated voltage (V) | Permitted voltage fluctuation range (%) | Frequency (Hz) | Rated rotational speed (r/min) * | | Maximum flow rate (m ³ /min) * | | Maximum static pressure (Pa) * | | Noise (dB) * | | Weight |
|-----------------|-------------------|---|----------------|----------------------------------|-------|---|-------|--------------------------------|-------|--------------|-------|-----------------|
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| R87B-FA1A15HPF2 | 100 | 85% to 110% rated voltage | 50/60 | 2,700 | 3,100 | 2.6 | 3.0 | 86 | 48 | 55 | 56 | Approx. 2,220 g |
| R87B-FA3A15HPF2 | 115 | | | | | | | | | | | |
| R87B-FA4A15HPF2 | 200 | | | | | | | | | | | |
| R87B-FA6A15HPF2 | 230 | | | | | | | | | | | |
| R87B-FA1A15LPF2 | 100 | 85% to 110% rated voltage | 50/60 | 2,100 | 2,200 | 2.0 | 2.1 | 47 | 44 | 45 | 46 | |
| R87B-FA3A15LPF2 | 115 | | | | | | | | | | | |
| R87B-FA4A15LPF2 | 200 | | | | | | | | | | | |
| R87B-FA6A15LPF2 | 230 | | | | | | | | | | | |
| R87B-TA1A15HPF2 | 100 | 85% to 110% rated voltage | 50/60 | 2,650 | 3,000 | 2.4 | 2.7 | 68 | 63 | 49 | 52 | Approx. 2,260 g |
| R87B-TA3A15HPF2 | 115 | | | | | | | | | | | |
| R87B-TA4A15HPF2 | 200 | | | | | | | | | | | |
| R87B-TA6A15HPF2 | 230 | | | | | | | | | | | |
| R87B-TA1A15MPF2 | 100 | 85% to 110% rated voltage | 50/60 | 2,300 | 2,600 | 1.6 | 1.9 | 41 | 43 | 44 | 47 | |
| R87B-TA3A15MPF2 | 115 | | | | | | | | | | | |
| R87B-TA4A15MPF2 | 200 | | | | | | | | | | | |
| R87B-TA6A15MPF2 | 230 | | | | | | | | | | | |

Note: An asterisk (*) indicates a nominal value.

Airflow Direction: Out

| Item Model | Rated voltage (V) | Permitted voltage fluctuation range (%) | Frequency (Hz) | Rated rotational speed (r/min) * | | Maximum flow rate (m ³ /min) * | | Maximum static pressure (Pa) * | | Noise (dB) * | | Weight |
|------------------|-------------------|---|----------------|----------------------------------|-------|---|-------|--------------------------------|-------|--------------|-------|-----------------|
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| R87B-FA1A15HPFR2 | 100 | 85% to 110% rated voltage | 50/60 | 2,700 | 3,100 | 2.6 | 3.0 | 86 | 48 | 55 | 56 | Approx. 2,220 g |
| R87B-FA3A15HPFR2 | 115 | | | | | | | | | | | |
| R87B-FA4A15HPFR2 | 200 | | | | | | | | | | | |
| R87B-FA6A15HPFR2 | 230 | | | | | | | | | | | |
| R87B-FA1A15LPFR2 | 100 | 85% to 110% rated voltage | 50/60 | 2,100 | 2,200 | 2.0 | 2.1 | 47 | 44 | 45 | 46 | |
| R87B-FA3A15LPFR2 | 115 | | | | | | | | | | | |
| R87B-FA4A15LPFR2 | 200 | | | | | | | | | | | |
| R87B-FA6A15LPFR2 | 230 | | | | | | | | | | | |
| R87B-TA1A15HPFR2 | 100 | 85% to 110% rated voltage | 50/60 | 2,650 | 3,000 | 2.4 | 2.7 | 68 | 63 | 49 | 52 | Approx. 2,260 g |
| R87B-TA3A15HPFR2 | 115 | | | | | | | | | | | |
| R87B-TA4A15HPFR2 | 200 | | | | | | | | | | | |
| R87B-TA6A15HPFR2 | 230 | | | | | | | | | | | |
| R87B-TA1A15MPFR2 | 100 | 85% to 110% rated voltage | 50/60 | 2,300 | 2,600 | 1.6 | 1.9 | 41 | 43 | 44 | 47 | |
| R87B-TA3A15MPFR2 | 115 | | | | | | | | | | | |
| R87B-TA4A15MPFR2 | 200 | | | | | | | | | | | |
| R87B-TA6A15MPFR2 | 230 | | | | | | | | | | | |

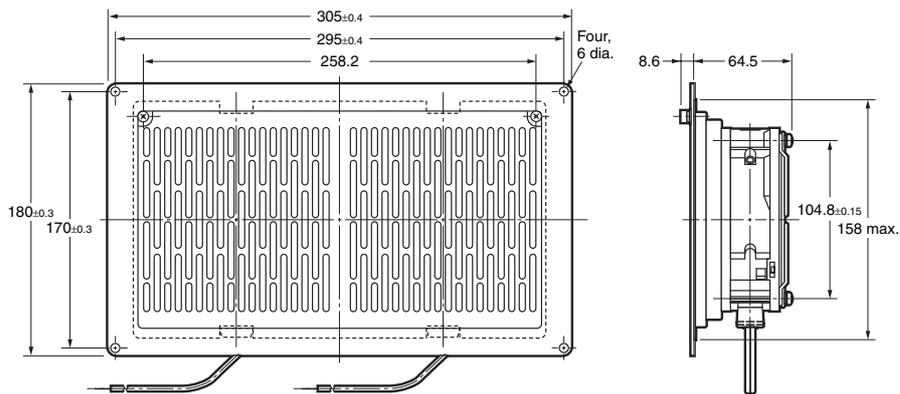
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- The model number of the AC Axial Fan in the Box Fan can be determined from the model number of the Box Fan as follows:

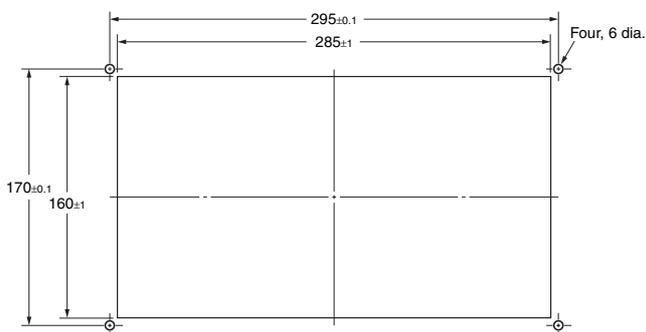
R87B-FA1A15HPF→R87F-A1A15HP

The model number of the Axial Fan can be determined by extracting the underlined portions from the model number of the Box Fan as shown.

Dimensions



Panel Cutout Dimensions



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 To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

In the interest of product improvement, specifications are subject to change without notice.

Ratings and Ordering Information

Airflow Direction: In

| Item Model | Rated voltage (V) | Permitted voltage fluctuation range (%) | Frequency (Hz) | Rated rotational speed (r/min) * | | Maximum flow rate (m ³ /min) * | | Maximum static pressure (Pa) * | | Noise (dB) * | | Weight |
|-----------------|-------------------------|--|-------------------|--|-------|---|-------|--------------------------------------|-------|-----------------|-------|--------------------|
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| R87B-FA1A15HPF3 | 100 | 85% to 110% rated voltage | 50/60 | 2,700 | 3,100 | 3.9 | 4.5 | 86 | 56 | 56 | 58 | Approx. 3,380 g |
| R87B-FA3A15HPF3 | 115 | | | | | | | | | | | |
| R87B-FA4A15HPF3 | 200 | | | | | | | | | | | |
| R87B-FA6A15HPF3 | 230 | | | | | | | | | | | |
| R87B-FA1A15LPF3 | 100 | 85% to 110% rated voltage | 50/60 | 2,100 | 2,200 | 2.9 | 3.1 | 42 | 41 | 47 | 48 | |
| R87B-FA3A15LPF3 | 115 | | | | | | | | | | | |
| R87B-FA4A15LPF3 | 200 | | | | | | | | | | | |
| R87B-FA6A15LPF3 | 230 | | | | | | | | | | | |
| R87B-TA1A15HPF3 | 100 | 85% to 110% rated voltage | 50/60 | 2,650 | 3,000 | 3.5 | 4.0 | 68 | 63 | 50 | 53 | Approx. 3,410 g |
| R87B-TA3A15HPF3 | 115 | | | | | | | | | | | |
| R87B-TA4A15HPF3 | 200 | | | | | | | | | | | |
| R87B-TA6A15HPF3 | 230 | | | | | | | | | | | |
| R87B-TA1A15MPF3 | 100 | 85% to 110% rated voltage | 50/60 | 2,300 | 2,600 | 2.4 | 2.8 | 41 | 45 | 45 | 48 | |
| R87B-TA3A15MPF3 | 115 | | | | | | | | | | | |
| R87B-TA4A15MPF3 | 200 | | | | | | | | | | | |
| R87B-TA6A15MPF3 | 230 | | | | | | | | | | | |

Note: An asterisk (*) indicates a nominal value.

Airflow Direction: Out

| Item Model | Rated voltage (V) | Permitted voltage fluctuation range (%) | Frequency (Hz) | Rated rotational speed (r/min) * | | Maximum flow rate (m ³ /min) * | | Maximum static pressure (Pa) * | | Noise (dB) * | | Weight |
|------------------|-------------------------|--|-------------------|--|-------|---|-------|--------------------------------------|-------|-----------------|-------|--------------------|
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| R87B-FA1A15HPFR3 | 100 | 85% to 110% rated voltage | 50/60 | 2,700 | 3,100 | 3.9 | 4.5 | 86 | 56 | 56 | 58 | Approx. 3,380 g |
| R87B-FA3A15HPFR3 | 115 | | | | | | | | | | | |
| R87B-FA4A15HPFR3 | 200 | | | | | | | | | | | |
| R87B-FA6A15HPFR3 | 230 | | | | | | | | | | | |
| R87B-FA1A15LPFR3 | 100 | 85% to 110% rated voltage | 50/60 | 2,100 | 2,200 | 2.9 | 3.1 | 42 | 41 | 47 | 48 | |
| R87B-FA3A15LPFR3 | 115 | | | | | | | | | | | |
| R87B-FA4A15LPFR3 | 200 | | | | | | | | | | | |
| R87B-FA6A15LPFR3 | 230 | | | | | | | | | | | |
| R87B-TA1A15HPFR3 | 100 | 85% to 110% rated voltage | 50/60 | 2,650 | 3,000 | 3.5 | 4.0 | 68 | 63 | 50 | 53 | Approx. 3,410 g |
| R87B-TA3A15HPFR3 | 115 | | | | | | | | | | | |
| R87B-TA4A15HPFR3 | 200 | | | | | | | | | | | |
| R87B-TA6A15HPFR3 | 230 | | | | | | | | | | | |
| R87B-TA1A15MPFR3 | 100 | 85% to 110% rated voltage | 50/60 | 2,300 | 2,600 | 2.4 | 2.8 | 41 | 45 | 45 | 48 | |
| R87B-TA3A15MPFR3 | 115 | | | | | | | | | | | |
| R87B-TA4A15MPFR3 | 200 | | | | | | | | | | | |
| R87B-TA6A15MPFR3 | 230 | | | | | | | | | | | |

Note: An asterisk (*) indicates a nominal value.

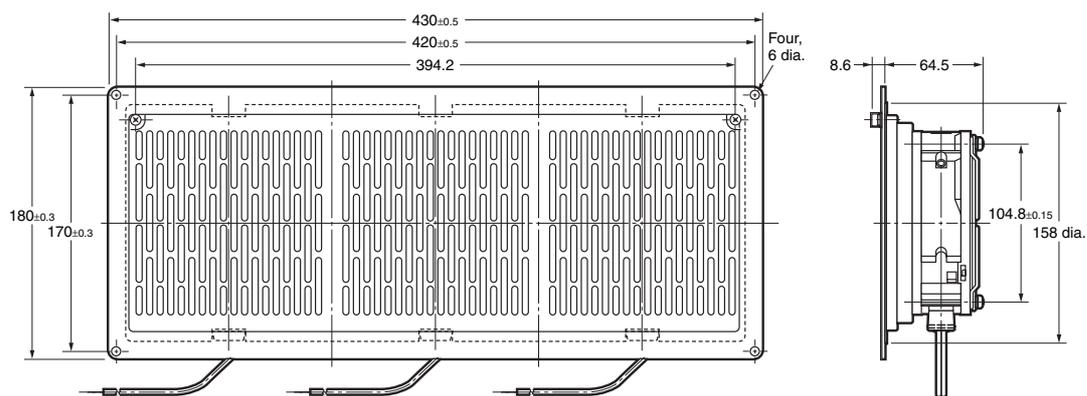
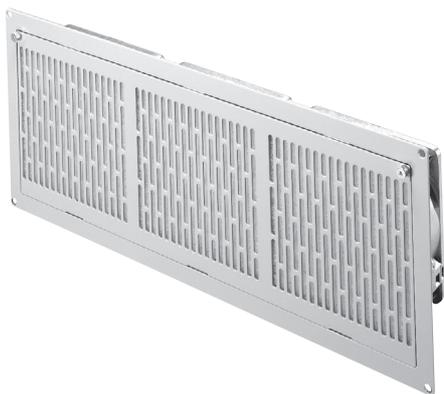
- The data in this table comes from measurements that were taken with the filter and cover attached.
- The model number of the AC Axial Fan in the Box Fan can be determined from the model number of the Box Fan as follows:

R87B-FA1A15HPF → R87F-A1A15HP

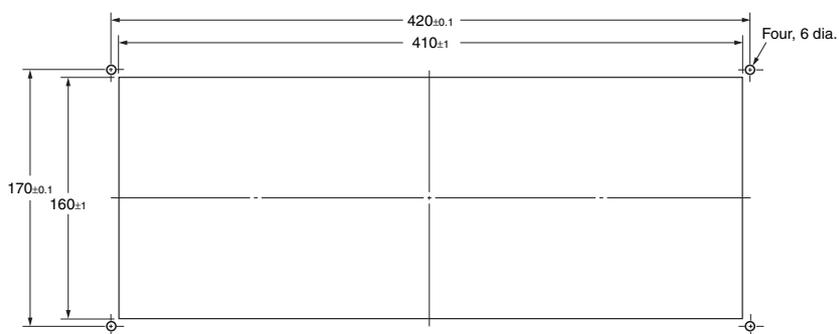
The model number of the Axial Fan can be determined by extracting the underlined portions from the model number of the Box Fan as shown.

Dimensions

(Unit: mm)



Panel Cutout Dimensions



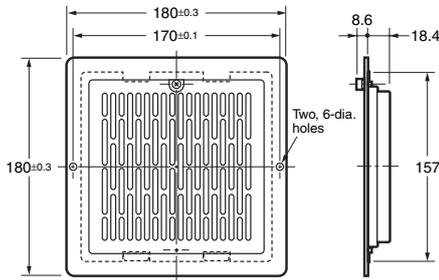
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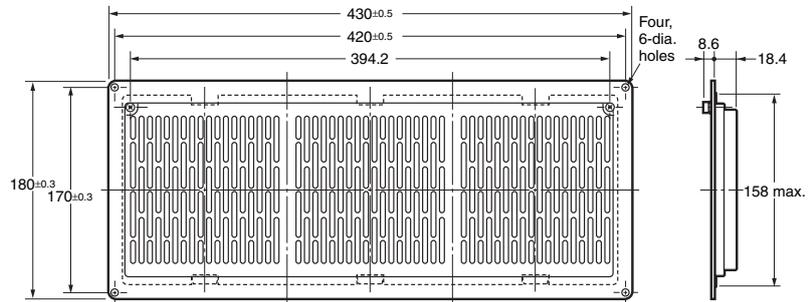
R87B-N□/R87B-PF

R87B-N□ (Attachment)

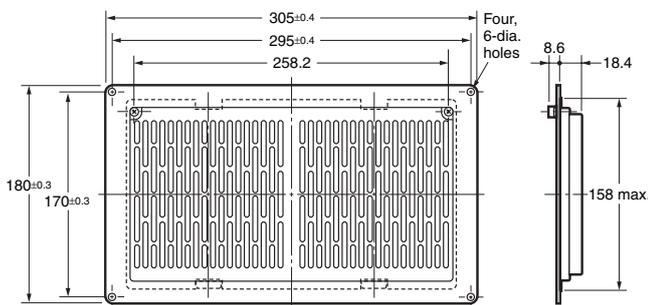
Single Box



Triple Box



Double Box

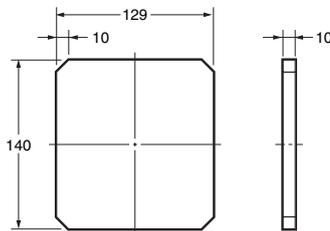


Ratings and Ordering Information

| Model | Item | Type | Weight |
|---------|------|--------|-----------------|
| R87B-N | | Single | Approx. 570 g |
| R87B-N2 | | Double | Approx. 1,100 g |
| R87B-N3 | | Triple | Approx. 1,700 g |

Note: The panel cut-out dimensions are the same as those for the Box Fan.

R87B-PF01 (Replacement Filter)



Ratings and Ordering Information

| Model | Item | Qty. | Weight (grams per filter) |
|-----------|------|------|---------------------------|
| R87B-PF01 | | 2 | 6 |

Filter Performance

| Heat resistance (°C) | Filtration wind velocity (m/s) | Pressure drop (Pa) | | Dust removal (%) | Dust suction amount (g/mm ²) |
|----------------------|--------------------------------|--------------------|-------|------------------|--|
| | | Initial | Final | | |
| 100 | 2.5 | 49 | 70 | 70 min. | 300 |

- Pay careful attention to clogging in the filter. A clogged filter will prevent the Fan from providing a cooling effect.

Replacing the Filter

1. Turn OFF the power, wait approximately one minute, and then open the cover. Remove the filter, replace it with a new filter, close the cover, and then firmly tighten the handle screw. This completes the filter replacement.
2. As a general guide to the replacement frequency, check the color of the filter regularly and replace it when the color shows a noticeable change.
3. It is recommended that the filter be replaced soon after the color changes noticeably in order to maintain the Fan's performance. (Replacement Filter: R87B-PF01)

Accessories

| Model | Item | Mounting bolts (M4) | Hexagonal nuts (M4) | Plain washers | Spring washers | Cable with plug | Finger Guard (See note.) | Filter (See note.) |
|--------------------|-----------------------|---------------------|---------------------|---------------|----------------|-----------------|--------------------------|--------------------|
| R87B-□A□A1□□PF(R) | (Single, with fan) | 2 | 2 | 4 | 2 | 1 | 2 | 1 |
| R87B-□A□A1□□PF(R)2 | (Double, with fan) | 4 | 4 | 8 | 4 | 2 | 4 | 2 |
| R87B-□A□A1□□PF(R)3 | (Triple, with fan) | 4 | 4 | 8 | 4 | 3 | 6 | 3 |
| R87B-N | (Single, without fan) | 2 | 2 | 4 | 2 | None | 1 | 1 |
| R87B-N2 | (Double, without fan) | 4 | 4 | 8 | 4 | None | 2 | 2 |
| R87B-N3 | (Triple, without fan) | 4 | 4 | 8 | 4 | None | 3 | 3 |

Note: The Finger Guard and Filter are to be assembled into the Box Fan.

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Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

2009.1

In the interest of product improvement, specifications are subject to change without notice.

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