Box Fan **R87B**

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 Legend

R87B-___**A15**_**PF**___ 1 2 3 4 5

Attachment

R87B-N

15

Options and Accessories

R87B-P

Number	Cotomorry	Cumhal	Magning of symbol
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	Р	Options and accessories
2	Power supply classification	A1 A3 A4 A6	100 VAC 115 VAC 200 VAC 230 VAC
3	Speed classification	H M L	High speed Middle speed Low speed
4	Airflow direction *	None R	In Out
5	Number of fans	None 2 3	1 2 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.

* "In" is the direction of external air flowing in.

"Out" is the direction of internal air flowing out.



Ordering Information

Туре	Number of fans	Model	Accessories
	1	R87B-FA A15HPF(R)	
Plastic blades High speed	2	R87B-FA A15HPF(R)2	
r ign opcou	3	R87B-FA A15HPF(R)3	
	1	R87B-FA A15LPF(R)	
Plastic blades Low speed	2	R87B-FA A15LPF(R)2	Filter
Low opeca	3	R87B-FA A15LPF(R)3	Finger guard
	1	R87B-TA A15HPF(R)	Plug cord
Metal blades High speed	2	R87B-TA A15HPF(R)2	Mounting bolts
r light opecu	3	R87B-TA A15HPF(R)3	
Metal blades	1	R87B-TA A15MPF(R)	
Medium	2	R87B-TA A15MPF(R)2	
speed	3	R87B-TA A15MPF(R)3	
	For 1	R87B-N	Filter
Attachment	For 2	R87B-N2	Finger guard
	For 3	R87B-N3	Mounting screws
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 resistanc	ance 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 t	emperature	–30 to 70°C (with no icing)	–20 to 70°C (with no icing)				
Storage temperature	e	–40 to 85°C (with no icing)					
Ambient humidity		25% to 85%					
Protection		Impedance protection					
Matariala	Frame	Die-cast aluminum					
Materials	Blades	Glass polycarbonate	Steel plate (black coating)				
Bearings Ball bearings							
Compliant standard	s*	PSE, EN/IEC 60335 (CE self-declaration)					
Certified standards*		UL/CSA UL					
Note: The rated curre	nt is the total for a	Il fans					

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.

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Single Box Fan R87B-AA15PF(R)

Ratings and Ordering Information

Airflow Direction: In

ltem	Rated voltage (V)	Permitted voltage fluctuation range (%)	Frequency (Hz)	rotat speed	ted ional (r/min) *	flow	mum rate nin) *	sta pressu	mum itic ire (Pa) k		bise 3) *	Weight
Model		range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
R87B-FA1A15HPF	100											
R87B-FA3A15HPF	115	85% to 110%	50/60	2,700	3,100	1.3	1.5	91	85	49	52	
R87B-FA4A15HPF	200	rated voltage	50/60	2,700	3,100	1.5	1.5	91	65	49	52	
R87B-FA6A15HPF	230											Approx. 1,120 g
R87B-FA1A15LPF	100	85% to 110%		2,100				43	42	42	43	
R87B-FA3A15LPF	115		50/60		0.000	0.0	1.0					
R87B-FA4A15LPF	200	rated voltage			2,200	0.9	1.0					
R87B-FA6A15LPF	230											
R87B-TA1A15HPF	100											
R87B-TA3A15HPF	115	85% to 110%	50/00	0.050	0.000					45	48	
R87B-TA4A15HPF	200	rated voltage	50/60	2,650	3,000	1.1	1.3	67	63	45	48	
R87B-TA6A15HPF	230											Approx.
R87B-TA1A15MPF	100											1,150 g
R87B-TA3A15MPF	115	85% to 110%	50/00	0.000	0.000		1.0	44	45	44		
R87B-TA4A15MPF	200	rated voltage	50/60	2,300 2,600	2,600	0.8	0.8 1.0	41 45	45 41	44		
R87B-TA6A15MPF	230											

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

Airflow Direction: Out

Item	Rated voltage (V)	Permitted voltage fluctuation range (%)	voltage Frequency fluctuation (Hz)		rotat speed	Rated rotational speed (r/min) *		Maximum flow rate (m³/min) *		Maximum static pressure (Pa) *		ise 3) *	Weight
Model		range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
R87B-FA1A15HPFR	100												
R87B-FA3A15HPFR	115	85% to 110%	50/60	2 700	2 100	1.3	1.5	01	85	49	52		
R87B-FA4A15HPFR	200	rated voltage	50/60	2,700	3,100	1.5	1.5	91	85	49	52	Approx.	
R87B-FA6A15HPFR	230												
R87B-FA1A15LPFR	100											1,120 g	
R87B-FA3A15LPFR	115	85% to 110%	50/60	2,100	2,200	0.9	1.0	43	42	42	43		
R87B-FA4A15LPFR	200	rated voltage	50/60		2,200	0.9							
R87B-FA6A15LPFR	230												
R87B-TA1A15HPFR	100												
R87B-TA3A15HPFR	115	85% to 110%	50/60	0.050	0.000			07		45	40		
R87B-TA4A15HPFR	200	rated voltage	50/60	2,650	3,000	1.1	1.3	67	63	45	48		
R87B-TA6A15HPFR	230											Approx.	
R87B-TA1A15MPFR	100											1,150 g	
R87B-TA3A15MPFR	115	85% to 110%	50/00	0.000	0.000	0.0	1.0	44	45	44			
R87B-TA4A15MPFR	200	rated voltage	50/60 2	2,300	2,600 0.8	0 0.8 1.0	0.8 1.0 41	45	41	44			
R87B-TA6A15MPFR	230												

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

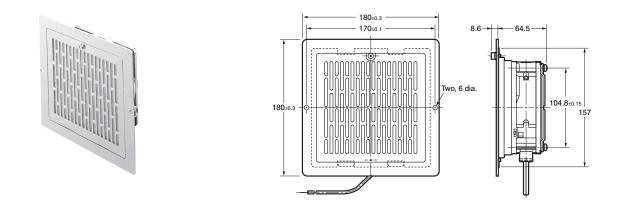
• The data in this table comes from measurements that were taken with the filter and cover attached.

• 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:

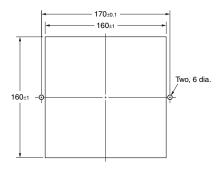
R87B-FA1A15HPF→R87F-A1A15HP

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



Panel Cutout Dimensions



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

Double Box Fan R87B-AA15PF(R)2

Ratings and Ordering Information

Airflow Direction: In

Item	Rated voltage	Permitted voltage fluctuation	Frequency (Hz)	rotat	ted ional r/min) *	flow	mum rate nin) *	static p	mum ressure a) *	-	ise 3) *	Weight
Model	(V)	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
R87B-FA1A15HPF2	100											
R87B-FA3A15HPF2	115	85% to	50/60	0 700	2 1 0 0	0.6	2.0	86	48	55	56	
R87B-FA4A15HPF2	200	110% rated voltage	50/60	2,700	3,100	2.6	3.0	00	40	55	90	
R87B-FA6A15HPF2	230											Approx.
R87B-FA1A15LPF2	100											2,220 g
R87B-FA3A15LPF2	115	85% to	50/60	0 100	0.000	2.0	0.1	47	44	45	46	
R87B-FA4A15LPF2	200	110% rated voltage		2,100	2,200	2.0	2.1	47			40	
R87B-FA6A15LPF2	230	· · ·····g·										
R87B-TA1A15HPF2	100											
R87B-TA3A15HPF2	115	85% to	50/00	0.050			0.7			40	50	
R87B-TA4A15HPF2	200	110% rated voltage	50/60	2,650	3,000	2.4	2.7	68	63	49	52	
R87B-TA6A15HPF2	230											Approx.
R87B-TA1A15MPF2	100											2,260 g
R87B-TA3A15MPF2	115	85% to	50/00	0.000	0.000	1.0	1.0	44	10		47	
R87B-TA4A15MPF2	200	110% rated 5 voltage	50/60	2,300	2,600	1.6	1.9	41	43	44 47	47	
R87B-TA6A15MPF2	230											

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

Airflow Direction: Out

Item	Rated voltage		voltage Voltage Freque		Frequency (Hz)	Rated rotational speed (r/min) *		Maximum flow rate (m³/min) *		Maximum static pressure (Pa) *		Noise (dB) *		Weight
Model		range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			
R87B-FA1A15HPFR2	100													
R87B-FA3A15HPFR2	115	85% to	50/00	0 700	0.400				40		50			
R87B-FA4A15HPFR2	200	110% rated voltage	50/60	2,700	3,100	2.6	3.0	86	48	55	56			
R87B-FA6A15HPFR2	230	voltage										Approx.		
R87B-FA1A15LPFR2	100											2,220 g		
R87B-FA3A15LPFR2	115	85% to	50/60	2,100	0.000	0.0	2.1	1 47	44	45	46			
R87B-FA4A15LPFR2	200	110% rated voltage			2,200	2.0								
R87B-FA6A15LPFR2	230													
R87B-TA1A15HPFR2	100													
R87B-TA3A15HPFR2	115	85% to 110% rated	50/60	0.650	2 000	2.4	2.7	68	63	49	52			
R87B-TA4A15HPFR2	200	voltage	50/60	2,650	3,000	2.4	2.1	00	63	49	52			
R87B-TA6A15HPFR2	230											Approx.		
R87B-TA1A15MPFR2	100											2,260 g		
R87B-TA3A15MPFR2	115	85% to	50/00	0.000	0.000	1.0	1.0	44	40		47			
R87B-TA4A15MPFR2	200	110% rated voltage	50/60	2,300	2,300 2,	2,600	2,600 1.	1.6	1.6 1.9	1.9 41 43	43	44 47	47	
R87B-TA6A15MPFR2	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:

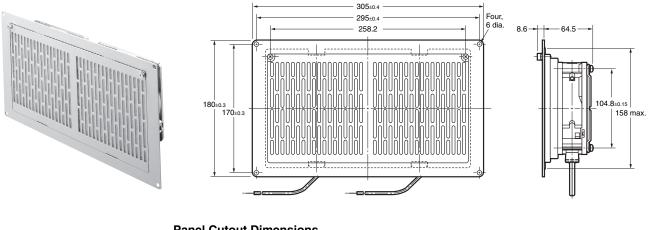
R87B-FA1A15HPF→R87F-A1A15HP

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.

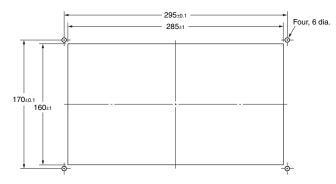
R87B

Dimensions

(Unit: mm)



Panel Cutout Dimensions



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

Triple Box Fan R87B-AA15PF(R)3

Ratings and Ordering Information

Airflow Direction: In

Item	Rated voltage	fluctuation (Hz)		rotat	rotational flo		Maximum flow rate (m ³ /min) *		Maximum static pressure (Pa) *		Noise (dB) *	
Model	(V)	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
R87B-FA1A15HPF3	100											
R87B-FA3A15HPF3	115	85% to 110%	50/60	2,700	3,100	3.9	4.5	86	56	56	58	
R87B-FA4A15HPF3	200	rated voltage	50/60	2,700	3,100	3.9	4.5	00	50	50	50	
R87B-FA6A15HPF3	230											Approx. 3,380 g
R87B-FA1A15LPF3	100			2,100	2,200		3.1			47	48	
R87B-FA3A15LPF3	115	85% to 110%	50/60			2.9		42	41			
R87B-FA4A15LPF3	200	rated voltage	50/60		2,200	2.9	3.1					
R87B-FA6A15LPF3	230											
R87B-TA1A15HPF3	100											
R87B-TA3A15HPF3	115	85% to 110%	50/00	0.050	0.000	0.5	1.0	68	63	50	50	
R87B-TA4A15HPF3	200	rated voltage	50/60	2,650	3,000	3.5	4.0	00	63	50	53	
R87B-TA6A15HPF3	230											Approx.
R87B-TA1A15MPF3	100											3,410 g
R87B-TA3A15MPF3	115	85% to 110%	50/60	2 200	2 600	2.4	20	44	45	45	10	
R87B-TA4A15MPF3	200	rated voltage	50/60 2,3	2,300 2	2,600	2.4	2.8	41	45	45	48	
R87B-TA6A15MPF3	230											

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

Airflow Direction: Out

Item	Rated voltage (V)	fluctuation (Hz)		Rated rotational speed (r/min) *		Maximum flow rate (m ³ /min) *		Maximum static pressure (Pa) *		Noise (dB) *		Weight	
Model	(•)	range (%)		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
R87B-FA1A15HPFR3	100												
R87B-FA3A15HPFR3	115	85% to 110%	50/60	0.700	2 100	2.0	4.5	96	56	FC	58		
R87B-FA4A15HPFR3	200	rated voltage	50/60	2,700	3,100	3.9	4.5	86	20	56	56	Approx.	
R87B-FA6A15HPFR3	230												
R87B-FA1A15LPFR3	100											3,380 g	
R87B-FA3A15LPFR3	115	85% to 110%	50/00	2,100	2 200	0.0	3.1	42	41	47	48		
R87B-FA4A15LPFR3	200	rated voltage	50/60		2,200	2.9	3.1						
R87B-FA6A15LPFR3	230												
R87B-TA1A15HPFR3	100												
R87B-TA3A15HPFR3	115	85% to 110%	50/60	0.050	0.000	0.5			<u></u>	50	50		
R87B-TA4A15HPFR3	200	rated voltage	50/60	2,650	3,000	3.5	4.0	68	63	50	53		
R87B-TA6A15HPFR3	230											Approx.	
R87B-TA1A15MPFR3	100											3,410 g	
R87B-TA3A15MPFR3	115	85% to 110%	50/00	0.000	0.000	0.4		44	45	45	40		
R87B-TA4A15MPFR3	200	rated voltage	50/60	2,300	2,300 2,600	2,600	2.4	2.8	2.8 41 4	45	45	48	
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.

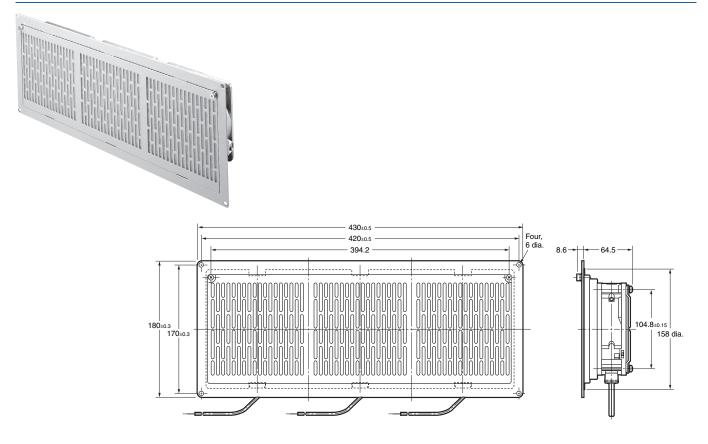
• The model number of the AC Axial Fan in the Box Fan can be determined from the model number of the Box Fan as follows:

 $\underline{\mathsf{R87}}\mathsf{B}\text{-}\underline{\mathsf{FA1A15HP}}\mathsf{F}{\rightarrow}\mathsf{R87}\mathsf{F}\text{-}\mathsf{A1A15HP}$

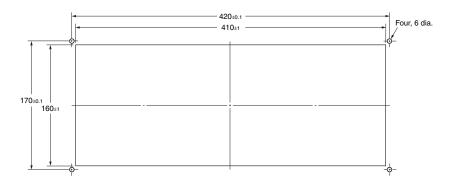
The model number of the Axial Fan can be determined by extracting the underlined portions from the model number of the Box Fan as shown.

Dimensions

(Unit: mm)



Panel Cutout Dimensions

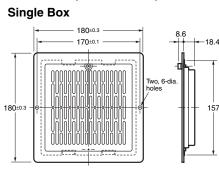


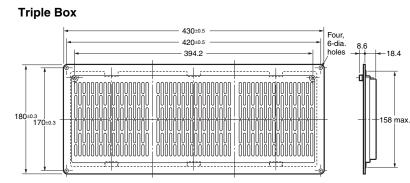
ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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

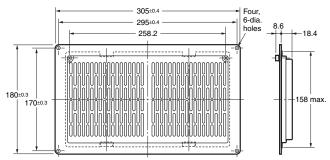
Optional Parts **R87B-N**/**R87B-PF**

R87B-N (Attachment)





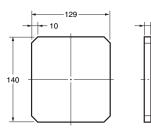
Double Box



10

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

Ratings and Ordering Information

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

Filter Performance

Heat	Filtration	Pressure	drop (Pa)	Dust	Dust
resistance (°C)	wind velocity (m/s)	Initial	Final	removal (%)	suction amount (g/mm²)
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.

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

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(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE

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NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof

Performance Data.

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