

Compact Cooling Fans



Application

Designed for use in enclosures where space is limited and reliable cooling is required. Powered by 115 volt or 230 volt AC, 60/50 Hz single-phase motors and available in three sizes with nominal airflows of 100, 240, and 560 cubic feet per minute (CFM). These fans are ideal for applications where compact and quiet service is desired.

Features

- Rigid housing eliminates breakage and grounding problems
- Maximum operating temperature is 158°F (70°C)
- 4-inch fan is thermally protected and uses permanently lubricated ball bearings
- 6- and 10-inch fans have ball-bearing construction and split-capacitor motors
- Split-capacitor motors are thermally protected to avoid premature failure
- Engineered for 50,000 hours of continuous operation without lubrication or service

Construction

- Dynamically balanced impellers molded from polycarbonate material
 - One finger guard is furnished (additional finger guards are available)
 - All mounting hardware is provided
- NOTE: Fan bracket and additional finger guards must be purchased separately.*
- 240 and 560 CFM fans have ball bearing construction and split capacitor motors
 - Fans have lead wires with ends stripped 1/2 inch (12 millimeters) or 6 ft. (1.83m) cord with polarized plug for power connections.

Consult your local Hoffman sales office for information on modifications to this product.

Finish

Fan housing is black.

Industry Standards

UL Component Recognized
CSA certified

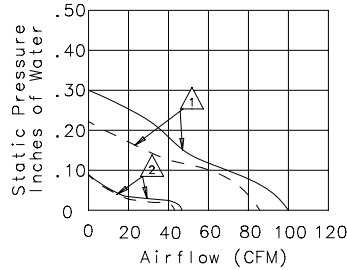
Accessories

Fan Brackets
Finger Guards
Temperature Control Switch

Installation

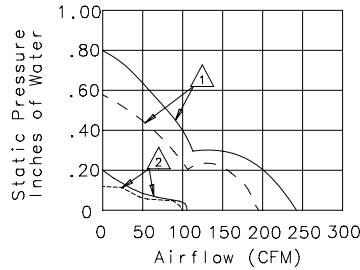
Can be installed on any surface of an enclosure. With the addition of accessory fan brackets, Compact Cooling Fans can also be installed in any position inside the enclosure for spot cooling or air circulation.

Performance Curve: 4 in. Fans



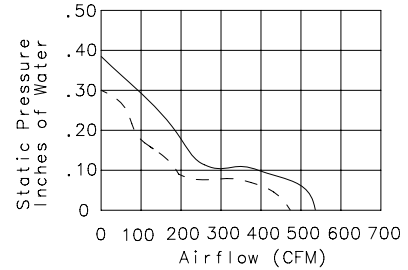
△ FNPNG, FN, FN2 models
△ FNGQ models

Performance Curve: 6 in. Fans



(Curves represent fan performance only.)

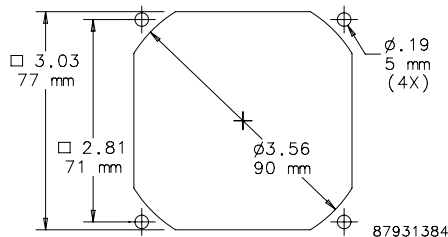
Performance Curve: 10 in. Fans



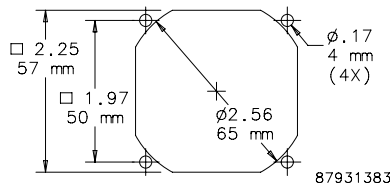
— 60 Hz
- - - 50 Hz 87744317

Technical/Performance Data for Compact Cooling Fans

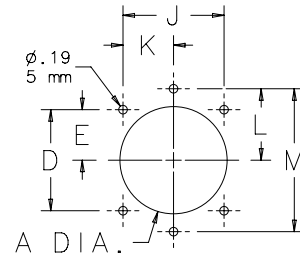
Catalog Number	Nominal Size (in.)	Power Connection	Voltage (VAC)	Amps @ 50/60 Hz	Watts @ 50/60 Hz	CFM @ 50/60 Hz	Fan Size	Fan Depth (in.)	Max. Motor Operating RPM @ 50/60 Hz	Noise SIL (db)
A2AXFN24	2	Lead wires	24 VDC	.09	2.16	21.5	2.36 in. square	.98	4550	65
A3AXFN	3	Lead wires	115 VAC	.09	7	27	3.15 in. square	1.50	2700	40
A3AXFN24	3	Lead wires	24 VDC	.14	3.36	40	3.15 in. square	.98	3400	35
A4AXFNGQ	4 (Quiet Fan)	Power cord	115 VAC	.09/.08	6/5	46/49	4.69 in. square	1.52	1350/1450	27/28
A4AXFNPNG	4	Power cord	115 VAC	.26/.21	17/15	85/100	4.69 in. square	1.52	2415/2900	37/41
A4AXFN	4	Lead wires	115 VAC	.26/.21	17/15	85/100	4.69 in. square	1.52	2415/2900	37/41
A4AXFN2	4	Lead wires	230 VAC	.14/.11	16/14	85/100	4.69 in. square	1.52	2415/2900	37/41
A4AXFN24	4	Lead wires	24 VDC	.35	84	118	4.69 in. square	1.50	3200	46.5
A6AXFNGQ	6 (Quiet Fan)	Power cord	115 VAC	.16/.19	16/18	85/102	6.77 in. diameter	1.50	1400/1650	35/38
A6AXFNPNG	6	Power cord	115 VAC	.45/.36	36/32	200/240	6.77 in. diameter	1.50	2670/3200	50/56
A6AXFN	6	Lead wires	115 VAC	.45/.36	36/32	200/240	6.77 in. diameter	1.50	2670/3200	50/56
A6AXFN2	6	Lead wires	230 VAC	.23/.18	39/35	200/240	6.77 in. diameter	1.50	2670/3200	50/56
A6AXFN24	6	Lead wires	24 VDC	.88	21.1	280	6.77 in. diameter	2.00	3750	62.5
A10AXFNPNG	10	Power cord	115 VAC	1.0/.88	36/36	480/560	10.00 in. diameter	3.50	1350/1650	45.8/49
A10AXFN	10	Lead wires	115 VAC	1.0/.88	36/36	480/560	10.00 in. diameter	3.50	1350/1650	45.8/49
A10AXFN2	10	Lead wires	230 VAC	.47/.43	36/36	480/560	10.00 in. diameter	3.50	1350/1650	45.8/49



MOUNTING CUTOUT
DIMENSIONS 3 INCH



MOUNTING CUTOUT
DIMENSIONS 2 INCH



MOUNTING CUTOUT
DIMENSIONS 4, 6, 10 INCH

87541392

Cutout Dimensions Compact Cooling Fans

Standard Fan Catalog Number	Quiet Fan Catalog Number	Nominal Size (in.)	Power Connection	Voltage	A (in.)	A (mm)	D (in.)	D (mm)	E (in.)	E (mm)	J (in.)	J (mm)	K (in.)	K (mm)	L (in.)	L (mm)	M (in.)	M (mm)
A2AXFN24	—	2	Lead wires	24 VDC	—	—	1.97	50	.98	25	1.97	50	.98	25	—	—	—	—
A3AXFN	—	3	Power cord	115 VAC	—	—	2.81	71	1.40	36	2.81	71	1.40	36	—	—	—	—
A3AXFN24	—	3	Lead wires	24 VDC	—	—	2.81	71	1.40	36	2.81	71	1.40	36	—	—	—	—
A4AXFN24	—	4	Lead wires	24 VDC	4.62	—	4.12	105	2.06	52	4.12	105	2.06	52	—	—	—	—
A4AXFNPNG	A4AXFNGQ	4	Power cord	115 VAC	4.62	117	4.12	105	2.06	52	4.12	105	2.06	52	—	—	—	—
A4AXFN	—	4	Lead wires	115 VAC	4.62	117	4.12	105	2.06	52	4.12	105	2.06	52	—	—	—	—
A4AXFN2	—	4	Lead wires	230 VAC	4.62	117	4.12	105	2.06	52	4.12	105	2.06	52	—	—	—	—
A6AXFN24	—	6	Lead wires	24 VDC	5.88	149	—	—	—	—	—	—	—	—	3.19	81	6.38	162
A6AXFNPNG	A6AXFNGQ	6	Power cord	115 VAC	5.88	149	—	—	—	—	—	—	—	—	3.19	81	6.38	162
A6AXFN	—	6	Lead wires	115 VAC	5.88	149	—	—	—	—	—	—	—	—	3.19	81	6.38	162
A6AXFN2	—	6	Lead wires	230 VAC	5.88	149	—	—	—	—	—	—	—	—	3.19	81	6.38	162
A10AXFNPNG	—	10	Power cord	115 VAC	9.00	229	6.88	175	3.44	87	6.88	175	3.44	87	—	—	—	—
A10AXFN	—	10	Lead wires	115 VAC	9.00	229	6.88	175	3.44	87	6.88	175	3.44	87	—	—	—	—
A10AXFN2	—	10 inch	Lead wires	230 VAC	9.00	229	6.88	175	3.44	87	6.88	175	3.44	87	—	—	—	—

Compact Cooling Fans

Fan Cords



Used to power compact cooling fans when positive ground of the cabinet case is required. Available with connectors for one or two fans. Five-foot (1.52 meter) cord with grounded three-prong plug. Fits A4AXFNPG, A6AXFNPG, A10AXFNPG, A4AXFNGQ, and AGAXFNGQ.

Catalog Number	Description
ACORD1	One connector
ACORD2	Two connectors

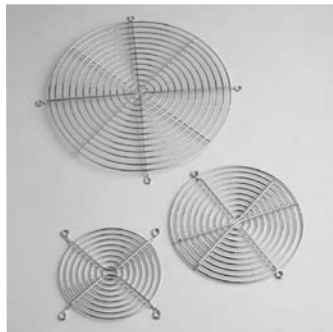
Fan Filter and Finger Guard Kits

Low density filter kits for 4 in. (102mm) and 6 in. (152mm) fans. Can also be used as vents. Filter is removable and can be cleaned and reused. Mounting hardware included.



Catalog Number	Description	Fits
AFLTR4LD	Fan Filter and Finger Guard Kit	4 in. fans
AFLTR6LD	Fan Filter and Finger Guard Kit	6 in. fans

Finger Guards



One finger guard is included with each Compact Cooling Fan and Cooling Fan Package. Additional finger guards can be mounted on either side of the fan for maximum safety. All guards are chrome-plated and meet UL 507 .25-inch plug gauge test.

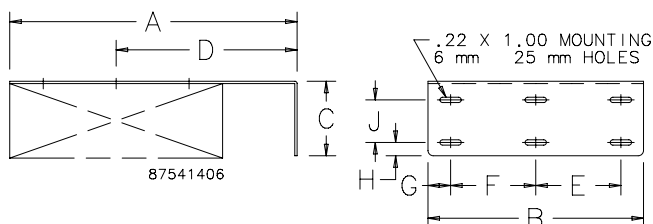
Catalog Number	Use on Compact Cooling Fan Catalog Numbers
AGARD2	A2AXFN24
AGARD3	A3AXFN, A3AXFN24
AGARD4	A4AXFNPG, A4XFNGQ, A4AXFN, A4AXFN2
AGARD6	A6AXFNPG, A6AXFNGQ, A6AXFN, A6AXFN2
AGARD10	A10AXFNPG, A10AXFNQR, A10AXFN, A10AXFN2

Compact Cooling Fans

Fan Brackets



Designed to provide easy mounting of Hoffman cooling fans on enclosure panels. Brackets can be used for general air circulation or to direct air at problem areas. All sizes are .100-in. aluminum. Package quantity of 1 bracket. Fans must be ordered separately.



Catalog Number	Used with Fan Catalog Number	A x B x C in. (mm)	D (in.)	D (mm)	E (in.)	E (mm)	F (in.)	F (mm)	G (in.)	G (mm)	H (in.)	H (mm)	J (in.)	J (mm)
ABRKT2	A2AXFN24	3.75 x 2.75 x 1.50 (95 x 70 x 38)	2.38	60	—	—	1.75	44	.50	13	.37	9	.62	16
ABRKT3	A3AXFN, A3AXFN24	4.50 x 3.50 x 1.50 (114 x 89 x 38)	2.75	70	—	—	2.50	64	.50	13	.37	9	.62	16
ABRKT4	A4AXFNPG, A4AXFNGQ, A4AXFN, or A4AXFN2	6.00 x 5.00 x 1.50 (152 x 127 x 38)	3.50	89	—	—	3.00	76	1.00	25	0.38	10	0.62	16
ABRKT6	A6AXFNPG, A6AXFNGQ, A6AXFN, or A6AXFN2	10.00 x 6.88 x 2.00 (254 x 175 x 51)	6.50	51	—	—	5.00	127	0.94	24	0.38	10	1.00	25
ABRKT10	A10AXFNPG, A10AXFNGQ, A10AXFN, or A10AXFN2	13.50 x 10.12 x 3.50 (343 x 257 x 89)	8.50	216	4.00	102	4.00	102	1.06	27	0.62	16	2.00	51