

COMPACT COOLING FANS



INDUSTRY STANDARDS

UL Component Recognized

CSA certified

APPLICATION

Compact Cooling Fans are ideal for applications where enclosure space is limited and quiet, reliable cooling is required. Engineered for 50,000 hours of continuous operation without lubrication or service.

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.

FEATURES

- Maximum operating temperature is 158 F (70 C)
- 4-in. fan is thermally protected and uses permanently lubricated ball bearings
- 6- and 10-in. fans have ball-bearing construction and splitcapacitor motors
- Spilit-capacitor motors are thermally protected to avoid premature failure
- Dynamically balanced impellers molded from polycarbonate material
- One finger guard is furnished (additional finger guards are available)
- All mounting hardware is provided

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 leadwires with ends stripped 1/2-in. (12-mm) or 6-ft. (1.8-m) 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.

ACCESSORIES

Fan Brackets Finger Guards Temperature Control Switch

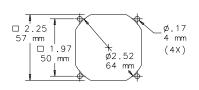
BULLETIN: D85

Standard Product and Cutout Dimensions

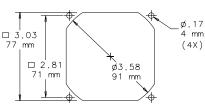
	Nominal								
Catalog Number	Size	Voltage	in./mm						
A2AXFN24	2	24 VDC	-	1.97	.98	1.97	.98	_	_
			-	50	25	50	25	_	_
A3AXFN	3	115 VAC	_	2.81	1.40	2.81	1.40	_	_
			_	71	36	71	36	_	_
A3AXFN24	3	24 VDC	-	2.81	1.40	2.81	1.40	_	_
			-	71	36	71	36	_	_
A4AXFNGQ	4	115 VAC	4.62	4.12	2.06	4.12	2.06	_	_
			117	105	52	105	52	_	-
A4AXFNPG	4	115 VAC	4.62	4.12	2.06	4.12	2.06	_	-
			117	105	52	105	52	_	_
A4AXFN	4	115 VAC	4.62	4.12	2.06	4.12	2.06	_	_
			117	105	52	105	52	_	_
A4AXFN2	4	230 VAC	4.62	4.12	2.06	4.12	2.06	_	_
			117	105	52	105	52	-	-
A4AXFN24	4	24 VDC	4.62	4.12	2.06	4.12	2.06	_	_
			117	105	52	105	52	_	-
A6AXFNGQ	6	115 VAC	5.88	_	_	_	_	3.19	6.38
			149	_	_	_	_	81	162
A6AXFNPG	6	115 VAC	5.88	_	_	_	_	3.19	6.38
			149	_	_	_	_	81	162
A6AXFN	6	115 VAC	5.88	_	_	_	_	3.19	6.38
			149	_	_	_	-	81	162
A6AXFN2	6	230 VAC	5.88	_	_	_	_	3.19	6.38
			149	-	-	-	-	81	162
A6AXFN24	6	24 VDC	5.88	-	-	_	-	3.19	6.38
			149	-		-	_	81	162
A10AXFNPG	10	115 VAC	9.00	6.88	3.44	6.88	3.4	_	_
			229	175	87	175	87	_	_
A10AXFN	10	115 VAC	9.00	6.88	3.44	6.88	3.44	-	_
			229	175	87	175	87	_	_
A10AXFN2	10	230 VAC	9.00	6.88	3.44	6.88	3.44	_	_
			229	175	87	175	87	_	_

CFM without exhaust grille

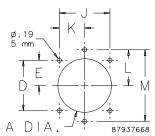








MOUNTING CUTOUT DIMENSIONS 3 INCH

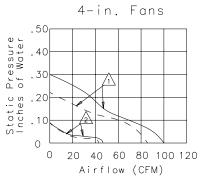


MOUNTING CUTOUT DIMENSIONS 4,6,10 INCH

Technical/Performance Data for Compact Cooling Fans

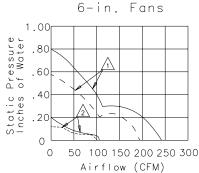
	Nominal	Power		A (i	wa	СЕМ ГО	Fan Size		Max. Motor Operating RPM @	
Catalog Number	Size	Connection	Voltage	50/60 Hz	50/60 Hz	50/60 Hz	(in. ²)	Fan Depth	50/60 Hz	Noise SIL (dB)
A2AXFN24	2	Lead wires	24 VDC	.09	2.16	21.5	2.36	.98 in.	4550	65
A3AXFN	3	Lead wires	115 VAC	.09	7	27	3.15	1.50 in.	2700	40
A3AXFN24	3	Lead wires	24 VDC	.14	3.36	40	3.15	.98 in.	3400	35
A4AXFNGQ	4 (Quiet Fan)	Power cord	115 VAC	.09/.08	6/5	46/49	4.69	1.52 in.	1350/1450	27/28
A4AXFNPG	4	Power cord	115 VAC	.26/.21	17/15	85/100	4.69	1.52 in.	2415/2900	37/41
A4AXFN	4	Lead wires	115 VAC	.26/.21	17/15	85/100	4.69	1.52 in.	2415/2900	37/41
A4AXFN2	4	Lead wires	230 VAC	.14/.11	16/14	85/100	4.69	1.52 in.	2415/2900	37/41
A4AXFN24	4	Lead wires	24 VDC	.35	8.4	118	4.69	1.52 in.	3200	46.5
A6AXFNGQ	6 (Quiet Fan)	Power cord	115 VAC	.16/.19	16/18	85/102	6.77	1.50 in.	1400/1650	35/38
A6AXFNPG	6	Power cord	115 VAC	.45/36	36/32	200/240	6.77	1.50 in.	2670/3200	50/56
A6AXFN	6	Lead wires	115 VAC	.45/36	36/32	200/240	6.77	1.50 in.	2670/3200	50/56
A6AXFN2	6	Lead wires	230 VAC	.23/.18	39/35	200/240	6.77	1.50 in.	2670/3200	50/56
A6AXFN24	6	Lead wires	24 VDC	.88	21.1	280	6.77	2.00 in.	3750	62.5
\10AXFNPG	10	Power cord	115 VAC	1.0/.88	36/36	480/560	10.00	3.50 in.	1350/1650	45.8/49
A10AXFN	10	Lead wires	115 VAC	1.0/.88	36/36	480/560	10.00	3.50 in.	1350/1650	45.8/49
A10AXFN2	10	Lead wires	230 VAC	.47/.43	36/36	480/560	10.00	3.50 in.	1350/1650	45.8/49

Performance Curves for Compact Axial Fans

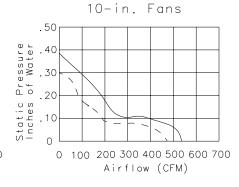


FNPG, FN, FN2 models

FNGQ models



(Curves represent fan performance only.)



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 A10AXFNGQ.

BULLETIN: DTHRM

Catalog Number	Description
ACORD1	One connector
ACORD2	Two connectors



FAN CORDS WITH INLINE THERMOSTAT



Use to power 110-120 VAC Compact Cooling Fans; replaces existing supplied power cord. Fan cord includes inline thermostat. The cord automatically activates up to two fans. Fan(s) will turn on when the inline thermostat reaches 85F (30C). Fan(s) will run only when temperature is above 85F (30C).

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Catalog Number	Description	Fan activation temperature	Voltage	Amps
ACORD2T	Two-connector fan power cord with inline thermostat	85 F (30 C)	110-120 VAC	10 amps max.

FAN FILTER AND FINGER GUARD KIT

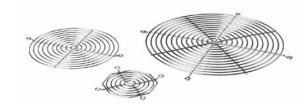


Low-density filter kit for 4-in. (102-mm) and 6-in. (152-mm) fans. Can also be used as vent. Filter is removable and can be cleaned and reused. Mounting hardware included.

BULLETIN: DTHRM, DWS1

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 chromeplated and meet UL 507 .25-in. plug gauge test.

BULLETIN: D85

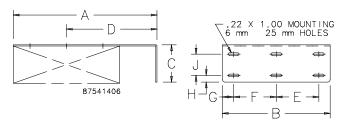
Catalog Number	Use on Compact Cooling Fan Catalog Numbers
AGARD2	A2AXFN24
AGARD3	A3AXFN, A3AXFN24
AGARD4	A4AXFNPG, A4XFNGQ, A4AXFN, A4AXFN2
AGARD6	A6AXFNPG, A6AXFNGQ, A6AXFN, A6AXFN2
AGARD10	A10AXFNPG, A10AXFNQR , A10AXFN, A10AXFN2

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.

BULLETIN: D85



		Used with Fan						J
Catalog Number	AxBxC in./mm	Catalog Number	in./mm	in./mm	in./mm	in./mm	in./mm	in./mm
ABRKT2	3.75 x 2.75 x 1.50	A2AXFN24	2.38	_	1.75	.50	.37	.62
	95 x 70 x 38		60	_	44	13	9	16
ABRKT3	4.50 x 3.50 x 1.50	A3AXFN, A3AXFN24	2.75	_	2.50	.50	.37	.62
	114 x 89 x 38		70	_	64	13	9	16
ABRKT4	6.00 x 5.00 x 1.50	A4AXFNPG, A4AXFNGQ, A4AXFN, or A4AXFN2	3.50	_	3.00	1.00	.38	.62
	152 x 127 x 38		89	-	76	25	10	16
ABRKT6	10.00 x 6.88 x 2.00	A6AXFNPG, A6AXFNGQ, A6AXFN, or A6AXFN2	6.50	_	5.00	.94	.38	1.00
	254 x 175 x 51		51	_	127	24	10	25
ABRKT10	13.50 x 10.12 x 3.50	A10AXFNPG, A10AXFNGQ, A10AXFN, or A10AXFN2	8.50	4.00	4.00	1.06	.62	2.00
	343 x 257 x 89		216	102	102	27	16	51



TEMPERATURE CONTROL SWITCHES



INDUSTRY STANDARDS

cURus; File No. E164102 UL94-VO

Protection rating IEC IP30 CSA Certified, File Number 215952 CE

APPLICATION

These easy-to-install thermostats regulate and monitor air temperature in enclosures that contain heat-emitting equipment. Thermostats prolong heater and fan life expectancy by controlling operation time and increase electrical component working efficiency by exposing them to fewer environmental contaminants.

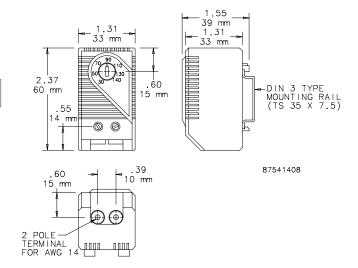
FEATURES

- Additional label for conversion to Celsius scale and blank label to cover set point range label when adjustment after initial setting is not desired are included
- Bimetal temperature sensor
- Plastic housing
- Connections consist of tubular screw terminals for AWG 14 (.04 sq. in.)
- · Provision for both panel mounting and DIN rail mounting

FINISH

Molded plastic housing is black

BULLETIN: D85



Standard Product

Catalog Number	Contact Type	Control Application
ATEMNC	NC (normally closed), quick acting	Heater
ATEMNO	NO (normally open), quick acting	Fan

Switching Capacity

Load	Amps
Maximum load	15 A resistive / 2 A inductive @ 120 VAC
	10 A resistive / 2 A inductive @ 250 VAC
	DC 30 W
Minimum load	20 mA (all voltages)