

2009

**Thermal Management
Product Offering**



NEMA Type 12 Filterfan®

Electronics are the lifeblood of your operation.

Innovative filterfans® and filter mats enable increase in airflow while maintaining Type 12 integrity.

Construction

- Patented "Click & Fit" design for tool-free mounting
- Patented hinge system for fast filter mat replacement
- Low profile grills
- Durable heat-resistant plastic construction
- High CFM fans

Finish

Black Grill (Light gray grill optional)

Options

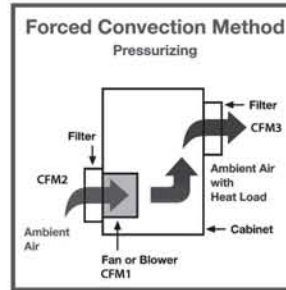
- Replacement filters
- Variable air flow direction
- Voltage options
- Installation up to size 6, air flow rate up to 560 CFM
- Three performance classes, cut-out compatible
- System of protection IP55, NEMA Type 12
- UL, cUL, NITW2 Category and CE approved, CSA pending
- UV-resistance, EMC options



How to Rate CFM in Filterfans®

- CFM1** - Fan only rating
- CFM2** - Fan with filter and louver rating (free flow)
- CFM3** - System rating with exhaust (includes static pressure drop)

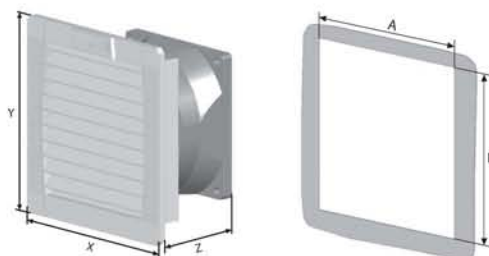
Part No.	CFM1	CFM2	CFM3
AB-FN4-17	36	17	11
AB-FN5-38	105	38	28
AB-FN7-65	105	65	38
AB-FN9-94	121	94	67
AB-FN9-169	224	169	142
AB-FN12-297	489	297	230
AB-FN12-462	1024	462	295
AB-FN12-560	1250	560	368



NOTE: Always calculate cooling capacity of filterfans® with the CFM3 value.

Part #	UPC Code	A (mm) & B (mm)	X (mm) & Y (mm)	Z (mm)	Mating Exhaust Filter	
					Part #	UPC Code
AB-FN4-17	70735365312	92	109	62	AB-FNEX4	70735365320
AB-FN5-38	70735365313	125	145	70	AB-FNEX5	70735365321
AB-FN7-65	70735365314	177	202	87	AB-FNEX7	70735365322
AB-FN9-94	70735365315	223	252	97	AB-FNEX9	70735365323
AB-FN9-169	70735365316	223	252	113	AB-FNEX9	70735365324
AB-FN12-297	70735365317	291	320	150	AB-FNEX12	70735365325
AB-FN12-462	70735365318	291	320	150	AB-FNEX12	70735365326
AB-FN12-560	70735365319	291	320	150	AB-FNEX12	70735365327

Replacement Filters	
Part #	UPC Code
AB-FILTER4	70735365328
AB-FILTER5	70735365329
AB-FILTER7	70735365330
AB-FILTER9	70735365331
AB-FILTER12	70735365332



Indoor Type 12 Side Mount Cooling Units

Electronics are the lifeblood of your operation.

Keep them properly cooled and consistently operating with proper thermal management.



Btu/h	2000 - 3000	3000 - 4000	5000 - 7000	7000 - 8500	9000 - 12000	12000 - 14000	16000 - 18000	20000 - 24000
Available Volts	115	115 / 460 1Ø	115 / 400 / 460 3Ø	115 / 400 / 460 3Ø	115 / 400 / 460 3Ø	400 / 460 3Ø	400 / 460 3Ø	400 / 460 3Ø
Height (in)	20.2	29.3	36	47.6	53	59.1	59.1	65.6
Width (in)	10.1	15.6	12	15.6	16	15.9	19	19
Depth (in)	10.8	11.6	12	12.8	11.9	18.4	21	24.5

Part #	UPC Code	Voltage
AB-SAC115V3000N	70735365347	115
AB-SAC115V4000N	70735365348	115
AB-SAC460V4000N	70735365349	460
AB-SAC115V7000N	70735365350	115
AB-SAC460V7000N	70735365351	460
AB-SAC115V8500N	70735365352	115
AB-SAC460V8500N	70735365353	460
AB-SAC115V12000N	70735365354	115
AB-SAC460V12000N	70735365355	460
AB-SAC460V14000N	70735365356	400/460 (3Ø)
AB-SAC460V18000N	70735365357	400/460 (3Ø)
AB-SAC460V24000N	70735365358	400/460 (3Ø)

Wide condenser fin spacing, rugged, long lasting backward curved impeller fans, proper long internal air paths, and hermetically sealed refrigeration circuits coupled with filter kit, corrosion-resistant and voltage options make these indoor Type 12 side mount cooling units reliable and relatively maintenance-free.

230 volt models & RAL 7035 available upon request.



Outdoor Type 3R/4 Side Mount Cooling Units

Electronics are the lifeblood of your operation.

Keep them properly cooled and consistently operating with proper thermal management.



Btu/h	2000 - 3000	3000 - 4000	5000 - 7000	7000 - 8500	9000 - 12000	12000 - 14000	16000 - 18000	20000 - 24000
Available Volts	115	115 / 460 1Ø	115 / 400 / 460 3Ø	115 / 400 / 460 3Ø	115 / 400 / 460 3Ø	400 / 460 3Ø	400 / 460 3Ø	400 / 460 3Ø
Height (in)	20.2	29.3	36	47.6	53	59.1	59.1	65.6
Width (in)	10.1	15.6	12	15.6	16	15.9	19	19
Depth (in)	10.8	11.6	12	12.8	11.9	18.4	21	24.5

Part #	UPC Code	Voltage
AB-SAC115V3000NF	70735365359	115
AB-SAC115V4000NF	70735365360	115
AB-SAC460V4000NF	70735365361	460
AB-SAC115V7000NF	70735365362	115
AB-SAC460V7000NF	70735365363	460
AB-SAC115V8500NF	70735365364	115
AB-SAC460V8500NF	70735365365	460
AB-SAC115V12000NF	70735365366	115
AB-SAC460V12000NF	70735365367	460
AB-SAC460V14000NF	70735365368	400/460 (3Ø)
AB-SAC460V18000NF	70735365369	400/460 (3Ø)
AB-SAC460V24000NF	70735365370	400/460 (3Ø)

Wide condenser fin spacing, rugged, long lasting backward curved impeller fans, proper long internal air paths, and hermetically sealed refrigeration circuits coupled with filter kit, corrosion-resistant and voltage options make these outdoor Type 3R/4 side mount cooling units reliable and relatively maintenance-free.

230 volt models & RAL 7035 available upon request.



Washdown 4/4X Side Mount Cooling Units

Electronics are the lifeblood of your operation.

Keep them properly cooled and consistently operating with proper thermal management.



Btu/h	2000 - 3000	3000 - 4000	5000 - 7000	7000 - 8500	9000 - 12000	12000 - 14000	16000 - 18000	20000 - 24000
Available Volts	115	115 / 460 1Ø	115 / 400 / 460 3Ø	115 / 400 / 460 3Ø	115 / 400 / 460 3Ø	400 / 460 3Ø	400 / 460 3Ø	400 / 460 3Ø
Height (in)	20.2	29.3	36	47.6	53	59.1	59.1	65.6
Width (in)	10.1	15.6	12	15.6	16	15.9	19	19
Depth (in)	10.8	11.6	12	12.8	11.9	18.4	21	24.5

Part #	UPC Code	Voltage
AB-SAC115V3000NFX	70735365371	115
AB-SAC115V4000NFX	70735365372	115
AB-SAC460V4000NFX	70735365373	460
AB-SAC115V7000NFX	70735365374	115
AB-SAC460V7000NFX	70735365375	460
AB-SAC115V8500NFX	70735365376	115
AB-SAC460V8500NFX	70735365377	460
AB-SAC115V12000NFX	70735365378	115
AB-SAC460V12000NFX	70735365379	460
AB-SAC460V14000NFX	70735365380	400/460 (3Ø)
AB-SAC460V18000NFX	70735365381	400/460 (3Ø)
AB-SAC460V24000NFX	70735365382	400/460 (3Ø)

Wide condenser fin spacing, rugged, long lasting backward curved impeller fans, proper long internal air paths, and hermetically sealed refrigeration circuits coupled with filter kit, corrosion-resistant and voltage options make these washdown 4/4X side mount cooling units reliable and relatively maintenance-free.

230 volt models &
316 Stainless Steel
available upon request.



Top Mount Cooling Units

Electronics are the lifeblood of your operation.

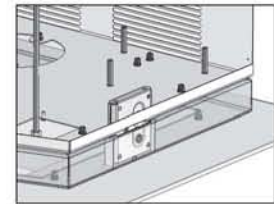
Keep them properly cooled and consistently operating with proper thermal management.

A milestone in the development of innovative Top Mount Cooling Units features a unique, patented condensate management system, which prevents all condensate from penetrating into the electrical enclosure. The very small installation size also means that you can install your electrical enclosures in a row to save space.



Advantages of Top Mount Cooling Units:

- Product variety: 3 installation sizes and 6 performance ranges
- 4-fold protection against condensate with patented condensate management system
- Tool-free mounting and maintenance with quick-release mounting frame
- Service-friendly: complete cover removable towards the front. Easily accessible filter mats and control elements in front area.
- Energy efficiency: around 20 % saving on energy thanks to the use of more effective, lighter components
- UL certification
- Design and color matching: perfect mixture of functionality and design
- NEMA 12 against enclosure when properly installed



Long service intervals

Larger fin spacing of the condenser coil prevents quick clogging and allows for filterless operation in many industrial environments.

Therefore, a significant extension of the service intervals is made possible.

Quick filter replacement made possible by convenient front panel.

Easy access to control board fuses

Easy access to all controls, fuses, etc. with service compartment that is located in the front of the cooling unit. The removal of the hood is not necessary and therefore, quick troubleshooting or replacement is achieved even under limited space conditions.

230 volt models available upon request

Part #	UPC Code	Btu/h	Rated Voltage
AB-TAC115V2000	70735365300	1200-2000	115
AB-TAC115V4000	70735365301	2500-4000	115
AB-TAC460V4000	70735365302		400/460
AB-TAC115V5500	70735365303	4000-5500	115
AB-TAC460V5500	70735365304		400/460
AB-TAC115V7000	70735365305	5500-7000	115
AB-TAC460V7000	70735365306		400/460
AB-TAC460V10000	70735365307	7000-10000	400/460
AB-TAC460V14000	70735365308	12000-14000	400/460

Quick-installation Frame

Part #	UPC Code	Size
AB-TACF1	70735365309	1
AB-TACF2	70735365310	2
AB-TACF3	70735365311	3

Thermostats & Hygrostats

Electronics are the lifeblood of your operation.

Keep them properly cooled and consistently operating with proper thermal management.

Features:

Thermostats are used as temperature controllers and, therefore, for the control of filterfans or electrical enclosure heaters. They are available with N.C. (normally closed) / N.O. (normally open) and changeover contacts. In combination with control cabinet heaters you can ensure, besides temperature control, that the control cabinet is 'artificially' dehumidified, in particular in outdoor applications. That means that the temperature is kept above the dew point so that no water condenses out of the air, which could lead to short circuits due to the formation of condensation.

Hygrostats switch on electrical enclosure heaters or filterfans when a preset relative humidity is exceeded. The relative humidity is kept above the dew point and the condensation of water on electrical components and the corrosion of unprotected sheet metal is prevented. A new electronic combination device unites thermostat and hygrostat in one housing.



Finish:

Molded plastic
RAL 7035

Accessories:

Heaters
Filterfans & Fans

Protection Ratings:

UL Recognized, UR, cUR
Category XAPX2/8
UL File Number: E251765
CE

Configuration:

Din Rail Mount



Part #	UPC Code	Voltage	Max. Current N.C.*	Max. Current N.O.*
AB-TSTATH	70735365383	115 - 230 V	240 V AC / 10 (2)	120 V AC / 15 (2)
AB-TSTATF	70735365384	115 - 230 V		
AB-TSTATFH	70735365385	115 - 230 V	240 V AC / 10 (2)	120 V AC / 15 (2)
AB-HSTATFH	70735365386	230 V	24-250 V AC / 5 (0.2) A – min. 100 mA	24-250 V AC / 2 (0.2) A – min. 100 mA

*Resistive value in brackets

Units standard in °F. °C versions available upon request.

Radiant & Fan Heaters

Electronics are the lifeblood of your operation.

Prevent harmful condensation with proper thermal management.

Radiant Heaters

Radiant heaters are compact and cover a wide operating range. Mini-heaters and surface temperature-limited heaters are particularly suitable for use in small housings or for the heating of isolated spots in sensitive areas.

Fan Heaters with Thermostat

Ideal for use in larger electrical enclosure. They have an integrated fan that assists the natural convection and provides fast and even distribution of the heat.

Both fan and radiant heaters are used in combination with a thermostat or hygrostat, to avoid excessively low temperatures or excessively high humidity in the enclosure and also help to avoid the formation of corrosion.

Finish:

Extruded aluminum with plastic ends
Stainless Steel

Protection Ratings:

UL Recognized, UR, cUR
Category KSOT 2/8
UL File Number: E250750
CE

Configuration:

Din Rail Mount
Panel Mount for FHT



Part #	UPC Code	Heater Power (W)	Rated Voltage
AB-RH230V10	70735365333	10	115 - 230 V
AB-RH230V20	70735365334	20	115 - 230 V
AB-RH230V30	70735365335	30	115 - 230 V
AB-RH230V45	70735365336	45	115 - 230 V
AB-RH230V60	70735365337	60	115 - 230 V
AB-RH230V75	70735365338	75	115 - 230 V
AB-RH230V100	70735365339	100	115 - 230 V
AB-RH230V150	70735365340	150	115 - 230 V
AB-FH115V250	70735365341	250	115 V
AB-FH115V400	70735365342	400	115 V
AB-FHT115V125	70735365343	125	115 V
AB-FHT115V200	70735365344	200	115 V
AB-FHT115V400	70735365345	400	115 V
AB-FHT115V800	70735365346	800	115 V