

AEE Solar

12V and 24V Remote-Control Ceiling Fans



This is a 42" four-blade ceiling fan with tan or white painted wood blades and a bright brass housing. The 3-speed reversible motor is controlled by infrared remote control and draws 1.2 amps (on 12V models) at high speed, draws 0.75 amp at medium speed and draws 0.5 amps at low speed. This fan is designed for surface mounting on a flat ceiling. An 8" swivel pendant mount for pitched ceilings is available as an option. They are available for 12- or 24-volt DC operation. CSA/UL approved.

Description	Item code	Price
12-volt ceiling fan 12V 42" white / brass w/ remote	085-07214	\$120
12-volt ceiling fan 12V 42" tan / brass w/ remote	085-07216	\$130
24-volt ceiling fan 12V 42" tan / brass w/ remote	085-07419	\$148
24-volt ceiling fan 12V 42" white / brass w/ remote	085-07418	\$120
Ceiling fan hanging kit - 8"	085-07425	\$23

RCH Fanworks

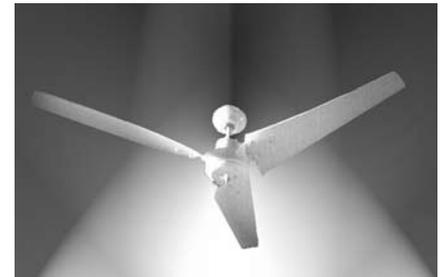
42" Vari-Fan

The Vari-Fan can be operated at 12 or 24 VDC. At 24 volts, it moves more air. The Vari-Fan comes with a matte black finish, but it can be easily painted. The main body parts (the black parts) of the Vari-Fan are made from injection molded ABS plastic insuring a lightweight, very durable fan that will stand up to a variety of environments from extreme heat and cold and high humidity to very dry. The Vari-Fan will not corrode, dent, or show minor scratches. The Vari-Fan is a dual mount ceiling fan – close mount or down rod, 4 or 5 blade fan – it's your choice. Everything you need comes in the box with the fan; how you mount it is your decision. Blades are light oak on one side and dark oak on the other side.



Vari-Cyclone

The Vari-Cyclone is a high efficiency version of the already very efficient Vari-Fan line of DC powered ceiling fans. The Vari-Cyclone's 60" fan blades, designed by the Florida Solar Energy Center in cooperation with a major fan manufacturer, utilize Gossamer Wind Technology, previously found only in AC powered ceiling fans. In tests conducted by the Florida Solar Energy Center, the 3-blade Vari-Cyclone showed a 22.8% increase in cubic feet per minute (CFM) over the 5-blade, 42" Vari-Fan. 12- or 24-volt operation.



Fan Speed Controls

If you are using a Fanworks fan on 12 volts, you can increase air movement and power consumption with the 085-09169 control, which takes 12 volts and steps it up to 24 volts. The 24-volt input control is for use on 24-volt battery systems. Maximum 1.5 amps.

Description	Item code	Price
RCH Fanworks 42" Vari-Fan 12/24 volt ceiling fan	085-07445	\$238
RCH Fanworks 3-blade 60" Vari-Cyclone white painted	085-07453	\$290
RCH Fanworks 3-blade 60" Vari-Cyclone unpainted	085-07456	\$236
Fan speed control 12V in / 0-24V out with reverse switch	085-09169	\$93
Fan speed control 24V in / 0-24V out with reverse switch	085-09170	\$45

NEW! Appropriate Power

SNAPFan DC Powered Venturi Exhaust Fans

We have upgraded our fans for 2008. These fans have a 3-wing polypropylene fiberglass blade mounted in a square injection mounded fiberglass frame for easy mounting and long life. The high efficiency DC motor has a 5000 hour life at 32 VDC and longer at lower voltage. This new design makes the quiet while moving more air with less power.

They can be used on existing battery systems or with other module combinations with up to 40 VDC open circuit voltage. 1-year warranty.



Blade diameter	Frame dimensions	@ 12 VDC		@ 24 VDC		@ 32 VDC		Weight lbs	Item code	Price
		Amps	CFM	Amps	CFM	Amps	CFM			
12"	17.5" x 17.5"	0.4	620	1.3	1200	2.0	1400	14	085-09081	\$294
16"	21.5" x 21.5"	1.0	800	2.7	1600	3.6	2000	16	085-09083	\$378
20"	21.5" x 21.5"	1.2	1400	2.7	2600	4.1	3500		085-09085	\$462
24"	25.5" x 25.5"	1.0	2325	3.1	4300	4.6	5500		085-09087	\$568

12V Freedom Fans

The two-speed Freedom Fan is quiet and efficient. Made in the USA, these rugged fans provide a refreshing breeze anywhere you have 12 volt power. Place it on the floor, on a table and tilt to any angle, or mount it on the wall.

Model 124 uses only 1.25 amps at low speed and 3 amps at high speed. It has a 12" fan blade protected by a durable plastic housing. C version has battery clips and P version has a cigarette lighter plug.

Model 302 has a PWM speed control and draws 4 amps at the highest setting. It has a 20" fan blade and a cigarette lighter plug and comes with an adapter for direct connection to battery terminals.

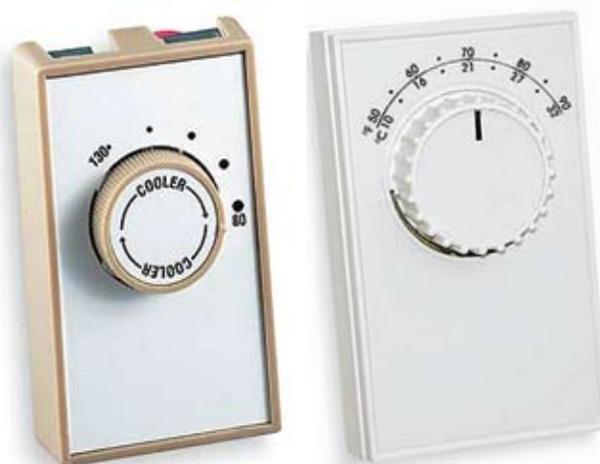


Description	Item code	Price
12-volt 12" Freedom Fan 124-C	085-08232	\$172
12-volt 12" Freedom Fan 124-P	085-08234	\$172
12-volt 20" Freedom Fan 302	085-08236	\$290

Thermostats

These thermostats can switch up to 22 amps at 120 VAC and they work fine for up to 10 amps at 12 or 24 VDC. Use them with DC fans to turn the fans on or off as temperature changes. They mount in a standard 2" x 4" electrical box. The attic fan thermostat has single pole contacts that close (turn fan on) as temperature rises. Its adjustment range is 90°F to 130°F. When the thermostat reaches the turn-on temperature, it must fall by 15°F before it will turn off. The heat/cool thermostat has double throw contacts, so it can be used to turn a fan on as the temperature rises or as it falls, depending on how it is wired. Its range is 50°F to 90°F and its differential is 2°F.

Description	Range	Item code	Price
Attic fan thermostat	90°F to 130°F	085-08036	\$35
Heating and cooling thermostat	50°F to 90°F	085-08032	\$30



Solar-Powered Fans

Fans are nearly ideal solar powered loads. They can run directly off DC (as do all of the following products). Solar powered fans run when they are most needed, when the sun is shining. During summer months, your attic temperatures can reach 150°F. High temperatures cause an increase in temperature in the living space and an increase in energy consumption by air conditioning equipment. Forced ventilation will circulate cooler air through the attic space and lower the temperature.

Fan and solar module combinations allow daytime ventilation and air circulation anywhere the sun shines. They are great for greenhouses, kennels, barns and attics where AC power is not available. The solar module runs the fan at full power in full sun and at a slower speed in overcast weather. Operation is automatic. When the sun shines on the solar module, the fan begins to operate. The 12" and 16" solar fan kits include fan, solar module and 20 feet of two-conductor wire.

Natural Light

Solar Attic Fan

The solar attic fan from Natural Light is a simple and environmentally sensible solution that can save you money. Powered completely by free solar energy, this sleek and efficient vent is both compact and quiet. Fully operational right from the box, it installs easily, with no electrical wiring, no expensive electrician and no city permits. And let's not forget powerful! Operating at a whopping 850 CFM, a single unit can fully vent up to 1200 square feet. Place it wherever you need improved circulation; attics, lofts, workshops, storage sheds, garages, even barns. These attic fans are available with a flush-mount solar module or with a tiltable-mount solar module. 5-year warranty.



Description	Item code	Price
Solar attic fan with adjustable module	085-07077	\$473

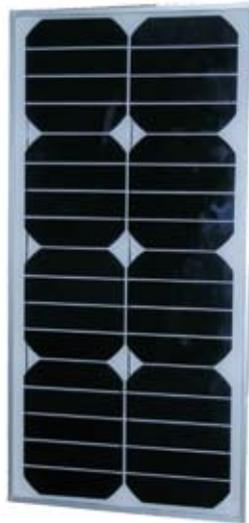
AEE Solar

NEW! Solar Exhaust Fan Kit

These solar fans include our Venturi Exhaust Fan on page 185, a solar module with mounting hardware and a 20-foot cord. These fans have a 3-wing polypropylene fiberglass blade mounted in a square injection-molded fiberglass venturi frame for easy maintenance and long life. The high-efficiency DC motor has a 5000 hour life at 32 VDC and longer at lower voltage. This new design makes the fan quiet while moving more air with less power.

The 12-inch fan comes with a 20-watt module and the 16-inch fan comes with a 30-watt module.

1-year warranty on the fan and 10-year power output warranty on the module.



Description	Item code	Price
Solar fan kit w/12" fan and 20-watt module	085-09062	\$430
Solar fan kit w/16" fan and 30-watt module	085-09064	\$580

Solar Chill

DC-Powered Evaporative Coolers

The Solar Chill solar-powered evaporative cooling system is available in five sizes and two DC voltages (12 and 24 volts DC). The rust-proof housings are built of 304 stainless steel and use a 6" thick fluted pad as the wet cooling media. This pad is the most efficient evaporative cooling media in the world, and it will last five years with minimal maintenance. Solar Chill coolers use 25 to 400 watts! Only 80 watts for 4500 cubic feet per minute (CFM).

The 42" belt drive Solar Chill can move a lot of air (9000 CFM). This 42" stainless steel Solar Chill is available for use on 12-volt or 24-volt systems and is capable of cooling spaces up to 2250 square feet. It uses only 200 to 400 watts of electricity. It comes standard with an 8-inch thick Cel-Dek wet pad, and can be run direct from a 300- to 500-watt PV array, although we recommend deep-cycle batteries for best performance. Whether your application is an industrial application or simply because a large home, if you have over 1000 sq feet, this unit is perfect.

Optional rheostats may be used to slow fan speed. Optional control packages with cleanout pumps are available.

Solar Chill coolers are available for 48-volt DC and 120 or 240 VAC operation by special order. Contract us for pricing.

For array-direct operation of evaporative coolers, use an array with at least the recommended watts and choose a linear current booster on page 164 with the correct amp and voltage rating.



Model	Nominal voltage	Dimensions H" x L" x W"	Fan diameter	Actual watts	Recommended PV watts	Air flow (CFM)	Weight lbs	Item code	Price
1412XP	12	19.3X21.5X24	14"	38 - 52	60 - 80	1000	36	085-06606	\$1,300
1812HP	12	24.5X 22 X 24	18"	53 - 73	85 - 130	1500	56	085-06609	\$1,176
2412HP	12	34 X 22.5 X 36	24"	80 - 120	120 - 200	3000	110	085-06611	\$1,880
4212XP	12	55 X 32.5 X 60	42"	200 - 400	450 - 600	8000		085-06617	\$4,800
1424XP	24	19.3 X21.5X24	14"	42	60 - 80	1000	36	085-06623	\$1,300
1824HP	24	24.5X22X24	18"	60	85 - 130	1500	56	085-06626	\$1,176
2424HP	24	34 X 22.5 X 36	24"	150	120 - 200	3000	110	085-06627	\$1,880
4224XP	24	55 X 32.5 X 60	42"	200 - 400	450 - 600	8000		085-06635	\$4,800

Solar Chill Accessories

Cooler leg kit - galvanized roof mount	085-06662	\$60
Replacement pump - 12 volt	085-06664	\$34
Replacement pump - 24 volt	085-06666	\$52
Evaporative cooler thermostat	085-06668	\$44
5-minute mechanical timer for cleanout pump	085-06670	\$37
Control box - 6" x 9" x 2.25"	085-06672	\$78
Control pkg - cleanout pump, thermostat, switches, cleanout timer in stainless steel box - 12V	085-06674	\$232
Control pkg - cleanout pump, thermostat, switches, cleanout timer in stainless steel box - 24V	085-06676	\$250
On/off switch for Solar Chill coolers - rated at 15 amps	085-06684	\$14
Variable speed rheostat - 2.5 amp, use with 1224HP and 1624HP	085-06691	\$98
Variable speed rheostat - 3.5 amp, use with 1212HP and 2024HP	085-06694	\$100
Variable speed rheostat - 4.7 amp, use with 2012HP	085-06695	\$116
Variable speed rheostat - 7.0 amp, use with 2412HP and 2-2024HP – by special order	085-06697	\$120
Knob for rheostat	085-06699	\$10
Diffuser grill, 14-inch	085-06705	\$98
Diffuser grill, 24-inch	085-06709	\$192