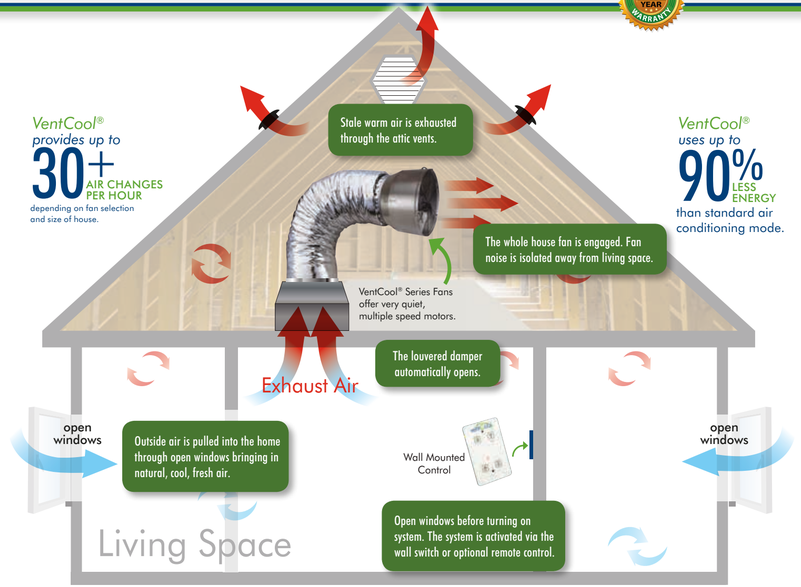

Selecting a Whole House Fan

STEP 1: Choose Series Features

Choose the VentCool series based on the features you want, like type of motor and damper.

STEP 2: Size The Fan

The fan CFM capacity is related to the square feet of the home. Note: When the square footage of home is between fan CFM capacity, select the next larger fan CFM capacity.

For effective free cooling, the CFM of the fan should be equal to the square footage of the home.

Minimum Fan CFM = Floor Area (Sq Ft) x 1

For faster free cooling, the CFM of the fan should be equal to two times the square footage of the home.

Minimum Fan CFM = Floor Area (Sq Ft) x 2

STEP 3: Exhaust Requirement

Per Title 24 guidelines, make sure there is one square foot of NFVA (Net Free Vent Area) per 500 CFM fan capacity.

Determine NFVA: Fan CFM ÷ 500 = NFVA required

After determining the minimum NFVA needed, the existing vents in your attic will need to be measured to verify you have enough venting. Count and measure each type of attic vent and multiply by the reduction factor. This will determine the actual NFVA needed in your attic. Note: Louvered vents have a .75 reduction factor.

STEP 4: Intake Air Requirement

For peak fan operation, an adequate amount of air must be supplied through open screened windows and doors.

Determine Air Intake: Sq Ft Intake = Fan CFM ÷ 250

VentCool® Models at a Glance

TAHOE Series

- PSC Motor & Fan
- AirLoc™ Gravity damper doors
- 2 speed/8 hour timer
- Optional WiFi Capability
- Decorative Intake Grille

SUMMIT Series

- ECM Motor & Fan
- AirLoc™ Gravity damper doors
- 10 speed/8 hour timer
- Optional Remote Control
- Decorative Intake Grille

VISTA Series

- ECM Motor & Fan
- PowerSeal™ Insulated Motorized damper doors
- 10 speed/12 hour timer
- Optional Remote Control
- Decorative Intake Grille

Tahoe Series with AirLoc™ Gravity Damper

Model	Fan Air Flow (CFM)	HVI-916 std. Title 24 CFM		Wattage	Efficiency @ High (CFM/Watts)	Sound Level (dBA)	Speed Settings	Voltage	Acoustic Silencer Duct	Rough Opening (inches)	Grille Dimensions (inches)	Damper Blade R-Value	Attic Venting* (sq. ft.)	Open Window† (sq. ft.)
		Min	Max	High										
VentCool-T1	2,136	–	1,772	208	8.5	52	1	120v	16" x 7ft	22.5 x 22.5	24.5 x 24.5	R-5	3.5	7.1
VentCool-T2	2,604	2,145	2,191	279	7.9	54	2	120v	16" x 7ft	14.25 x 22.25	16 x 24	R-5	4.4	10.4
VentCool-T3	3,418	2,628	3,009	341	8.8	53	2	120v	18" x 7ft	14.25 x 22.25	16 x 24	R-5	6.1	12.0
VentCool-T4	4,740	2,996	3,750	667	5.6	56	2	120v	20" x 7ft	14.25 x 30.25	16 x 32	R-5	7.5	15.0
VentCool-T5	5,614	3,461	4,476	781	5.7	59	2	120v	20" x 7ft	14.25 x 30.25	16 x 32	R-5	9.0	17.9
VentCool-T6	6,145	4,120	5,400	857	6.3	60	3	120v	(2)16" x 7ft	14.25 x 36.25	16 x 38	R-5	10.8	21.6

Summit Series with AirLoc™ Gravity Damper

Model	Fan Air Flow (CFM)	HVI-916 std. Title 24 CFM		Wattage	Efficiency @ High (CFM/Watts)	Sound Level (dBA)	Speed Settings	Voltage	Acoustic Silencer Duct	Rough Opening (inches)	Grille Dimensions (inches)	Damper Blade R-Value	Attic Venting* (sq. ft.)	Open Window† (sq. ft.)
		Min	Max	High										
VentCool-2.4	3,480	< 225	3,132	325	9.6	59	10	120v	20" x 7ft	14.5 x 22.5	16.5 x 24.5	R-5	6.3	12.5
VentCool-3.4	4,230	< 225	3,342	292	11.4	52	10	120v	20" x 7ft	22.5 x 26.5	24.5 x 28.5	R-5	6.7	13.4
VentCool-4.9	6,048	916	5,202	850	6.1	60	10	120v	20" x 7ft	22.5 x 26.5	24.5 x 28.5	R-5	10.4	20.8

Vista Series with PowerSeal™ Insulated Motorized Damper

Model	Fan Air Flow (CFM)	HVI-916 std. Title 24 CFM		Wattage	Efficiency @ High (CFM/Watts)	Sound Level (dBA)	Speed Settings	Voltage	Acoustic Silencer Duct	Rough Opening (inches)	Grille Dimensions (inches)	Damper Blade R-Value	Attic Venting* (sq. ft.)	Open Window† (sq. ft.)
		Min	Max	High										
VentCool-1.7	1,981	1,000	1,712	159	10.8	55	2	120v	—	14.5 x 22.5	16.5 x 24.5	R-10	3.4	6.8
VentCool-2.5	3,614	723	3,253	321	10.1	60	10	120v	20" x 7ft	14.5 x 22.5	16.5 x 24.5	R-49	6.5	13.0
VentCool-3.5	4,354	723	3,440	298	11.5	52	10	120v	20" x 7ft	22.5 x 26.5	24.5 x 26.5	R-49	6.9	13.8
VentCool-5.0	6,220	1,367	5,350	825	6.5	61	10	120v	20" x 7ft	22.5 x 26.5	24.5 x 26.5	R-49	10.7	21.4

*Adequate attic ventilation must be available for the fan to operate efficiently. Recommended 1 sq. ft. of net free ventilation area per 500 CFM of fan airflow.
† Windows must be opened to safely and effectively operate the fan. Recommended 1 sq. ft. of open windows per 250 CFM of fan airflow.

FORM #4403
2018

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LIMITED 15 YEAR WARRANTY

VentCool® is A Better Way to Cool Your Home

Now, there is a way to cool your home that uses less energy than traditional air conditioning, reduces overall energy costs, and provides a reliable source for clean, fresh air ventilation throughout the home. Our VentCool free cooling whole house fans are available in three series: Tahoe, Summit and Vista. All series feature models in a range of sizes and configurations.

Save on Air Conditioning Costs

The benefits of free cooling begin with dramatic energy savings. VentCool Whole House Fans **use up to 90% less energy** than running compressor-based air conditioning units. As the cooler air circulates through the home, it cools the structure and everything in it. With thermal mass cooling, the air conditioning isn't needed until later in the day. This translates into less use of the air conditioning system and significant cost savings.

VentCool® Fans Qualify for Title 24

The Department of Energy reports that whole house fans are the most cost effective way to cool your home. Many state and local codes provide energy credits, discounts, or other incentives for whole house fans. VentCool models qualify for California's Title 24 Energy Credits. Homeowners take note: VentCool fans are on the HERO list of eligible energy savings products.

Free Cooling Benefits

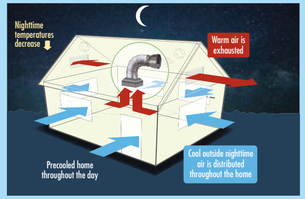
- Free cooling mode uses up to 90% less energy than air conditioning mode
- Provides up to 30+ air changes per hour depending on fan selection and size of house
- A precooled house greatly reduces air conditioning use during the day
- Rated and tested to Home Ventilation Institute Standard HVI-916
- CEC Title 24 compliant
- Eligible for Home Energy Renovation Opportunity (HERO) financing program

Designed for Fast, Easy Installation

All VentCool Whole House Fans come complete and are installed from inside the attic. Plus, they are designed to fit between the joists to ease installation. There is no need to cut joists when installing the damper box since they all fit 16" on center. Installation is simple. Contractors and builders will find installation is fast so there is less time spent on the job site. Homeowners who are handy do-it-yourselfers can easily install a VentCool fan themselves.

What is Free Cooling?

VentCool® Whole House Fans replace warm/stale inside air with cool/fresh outdoor air. The process is called Thermal Mass Cooling. Fresh, cool nighttime air is brought in from outdoors to precool the house and its contents. Free cooling is a great way to reduce energy costs, because the air conditioning compressor is not used. Plus, it increases fresh air ventilation, and enhances indoor air quality.



TAHOE™ Series

Tahoe Series Whole House Fans are high performance, energy saving residential cooling systems.

- 6 models
- Broad menu of airflow capacities to meet design requirements
- AirLoc™ Gravity Damper
- PSC motor

Features:

PSC Motor
Economical and reliable Permanent Split Capacitor (PSC) motors that operate on up to 90% less energy than traditional air conditioning.

AirLoc™ Gravity Damper
Exclusive AirLoc™ Gravity Damper, a precise sealing system component designed for a secure seal to isolate the attic from the living space when operation of whole house fan is not desired.

Wall Mounted Speed Control
2-speed wall mount control with an 8-hour timer to set the desired operation period. Optional WiFi capability.

Acoustic Silencer Duct
7 feet of insulated flexduct designed for quieter sound operation.

Decorative Intake Grille
White cube core design easily removed for cleaning.

SUMMIT™ Series

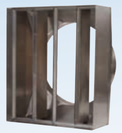
Summit Series Whole House Fans are energy efficient, quietly performing residential cooling systems.

- 3 models
- Select menu of airflow capacities to meet design requirements
- AirLoc™ Gravity Damper
- ECM motor

Features:

ECM Motor
Highly efficient Electronically Commutated Motors (ECM) that operate at an optimally low cfm/watt draw consuming up to 90% less energy than traditional air conditioning.

AirLoc™ Gravity Damper
Exclusive AirLoc™ Gravity Damper, a precise sealing system component designed for a secure seal to isolate the attic from the living space when operation of whole house fan is not desired.



Wall Mounted Speed Control
10-speed wall mount control with an 8-hour timer to set desired operation period. Optional remote control.

Acoustic Silencer Duct
7 feet of insulated flexduct designed for quieter sound operation.

Decorative Intake Grille
White cube core design easily removed for cleaning.

VISTA™ Series

Vista Series Whole House Fans are powerful, energy efficient, quietly performing residential cooling systems.

- 3 models
- Select menu of airflow capacities to meet design requirements
- PowerSeal™ Motorized Damper
- ECM motor

Features:

ECM Motor
Highly efficient Electronically Commutated Motors (ECM) that operate at an optimally low cfm/watt draw, consuming up to 90% less energy than traditional air conditioning.

PowerSeal™ Motorized Damper
Exclusive PowerSeal™ Motorized Damper, an Insulated R-49 drive seal system designed for a secure, precise, and insulated seal between the attic and the living space when operation of whole house fan is not desired.

Wall Mounted Speed Control
10-speed wall mount control with an 12-hour timer to set desired operation period. Optional remote control.

Acoustic Silencer Duct
7 feet of insulated flexduct designed for quieter sound operation.

Decorative Intake Grille
White cube core design easily removed for cleaning.