





MAY 2013

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Selection, Installation, Sizing & Questions	ULTRA [™] Fans & Fan/Lights	QT Series Fans & Fan/ Lights, Humidity Sensing, SmartSense®

We don't build products.

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Ventilation Fans & Fan/Lights

Specialty Fans & Fan/Lights, Hidden Ventilation, Decorative Fan/Lights, Utility Fans, In-Line Fans

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We build the industry.



Leadership is measured in all kinds of ways. We define it with innovation, from spot ventilation products to whole-house indoor air quality systems. The greatest compliment we receive is seeing our product ideas become the industry standards.

Silence is what consumers demand more than any other feature in a ventilation fan. We hear you, and proudly offer the most quiet ventilation fans available. Proven in real-world installations, they deliver what we promise on the package.

Performance Powerful operation is the ultimate test. And a clear bathroom mirror after a long relaxing shower is the true measure of bath fan performance. That's why Broan engineers the right product for every type of application, room size and need.

Installation Ease is extremely important, especially when it comes to retrofit situations. Broan understands and appreciates this and continually strives to design products such as our new Broan ULTRA[™] series that are the fastest, easiest and most universal to install, up to 60% faster in retrofit installations and 20% faster in new construction. Fear of a difficult installation no longer needs to be an obstacle to upgrading to the powerful performance and quiet operation you deserve.

Style can be difficult to define. What's compelling to one may be passe to another. Broan solves the issue with a broad variety of product styles, finishes, and shapes—all designed around you.

Selection No one provides more ways to improve indoor air quality. From the spot ventilation and heating products listed above, to our whole-house Broan Fresh Air Systems, trust Broan to keep your home safe and comfortable.

What you should consider when buying a bath fan or home ventilation system.

Steamy mirrors, damp walls and fogged windows. They're more than annoying. They could indicate developing problems like mold and mildew, ruined insulation, and wood rot. Spot ventilation solutions from Broan clear the air quickly and efficiently, removing potential problems before they invite themselves into your home.

What's in stays in today's airtight homes.

Today's homes are built airtight for efficiency. But that means moisture and airborne pollutants stay where they are unless they are vented away. Eliminating excess moisture keeps your home dry and comfortable and can help avoid mold and mildew. Volatile organic compounds (VOCs) "outgas" from construction materials such as plywood, carpet, fabric, paint,

adhesive, insulation and other common items. Allergens, dust, cooking vapor and what the kids bring home from school are more reasons why good ventilation is critical.

Which product is best suited to my application?

Take a moment to consider what you're looking for in a spot ventilation product. Do you want quiet operation, a powerful blower, decorative designs or something that's virtually invisible? Could you use more light, or ventilation in a walk-in closet? Broan has what you need.

leadership

More than 80 years ago Broan invented the spot ventilation industry. Today, Broan is engineering and testing the next generation of ventilation solutions to keep your home and family comfortable.

Sones measure the "sound level" of your fan.

A sone is a measurement of sound in terms of comfortable hearing level for an average listener. The lower the sone value, the more comfortable the environment. Sones are not decibels or volume, but rather how sound is "sensed." One sone is half as loud as two sones, and is equivalent to a quiet refrigerator.

What "HVI certified" means to you.

The Home Ventilating Institute (HVI) is an independent organization that certifies the airflow and sound performance claimed by manufacturers of ventilation products. Broan certifies every product through HVI to ensure the product you purchase will perform as claimed. For more information visit www.hvi.org.

ENERGY STAR[®]: Conserve energy and energy expenditures.

If you're concerned about saving money and energy, choose Broan bath fans that feature the ENERGY STAR® logo. These products use high efficiency motors and lighting that can reduce energy consumption by as much as 65%—all without sacrificing performance. For extreme energy efficiency, the Broan Ultra Series with ULTRA Green[™] DC Motor Technology is nearly 10 times more efficient than ENERGY STAR® requirements. Learn more about ENERGY STAR® at www.energystar.gov.



Broan makes the perfect ventilation fan for every home, décor and budget.

Proper installation makes all the difference.

Tape or caulk around the seam where the fan housing meets the sheetrock on the ceiling.

> If possible, use smooth, rigid ductwork as large as the exit opening on the body of the fan housing.

Whenever possible, ductwork should slope down and away from the fan housing to direct any condensation toward the vent.

> Exit vents should have backdraft flaps to help keep cold air from entering the duct.

Whether rigid or flexduct, the turning radius for the duct should be as large as possible.

Pre-installed screws, keyhole slots and alignment tabs facilitate installation, taking the guesswork out of proper mounting.

Elbows, turns, long ducts and ductwork smaller than the fan's exit outlet will reduce performance.

Use wide aluminum foil or duct tape to join smooth metal ductwork seams.

Do not let flexible ductwork sag as this impedes airflow. During installation, orient the bath fan outlet in the direction of the home's exit point to minimize duct turns.

Before adding an elbow or bend, allow 24" to 36" of straight run from the fan outlet point.

Duct-wrap insulation (R-5 or above) will help minimize condensation in cold climates, especially on long duct runs.

Quick guideline: For bathrooms up to 100 square feet, the HVI recommends ventilation of at least 1 CFM per square foot (about eight air changes per hour). For bathrooms over 100 square feet, add up the needs of each fixture to determine the total ventilation rate:

- Toilet 50 CFM
- Shower 50 CFM
- Bathtub 50 CFM
- Jetted tub 100 CFM

Easy steps for choosing and sizing the right ventilation fan for your home.

Determine which rooms could use ventilation, and how much is needed. Spot ventilation is used in localized

areas to remove moisture, odor and airborne pollutants quickly. Most commonly used in the bath or powder room, spot ventilation can also be used in a laundry room, exercise area, closet, or bedroom, wherever air should be changed frequently. Decorative and recessed models can be ideal solutions for these situations. According to the Home Ventilating Institute, Air Changes per Hour (ACH) for comfortable and healthy living should be as follows: Bathrooms: 8 changes, Kitchens: 15 changes, Living/Bedrooms: 6 changes. Broan bath fans, utility fans and high capacity fans meet these needs.

Calculate the air movement necessary for proper ventilation.

Air movement is measured in Cubic Feet per Minute (CFM). To determine CFM requirements, first determine the size of your room. Measure and multiply the length, width and ceiling height of your

room to determine cubic footage. Then use the multiplication factor of .13 and round up to the next "ten." See the three examples that follow.

Example 1: Bathroom with 8' ceiling: 7' wide x 9' long x 8' high x .13 = 66. Select a bath fan with at least 70 CFM.

Example 2: Bathroom with 9' ceiling: 10' wide x 9' long x 9' high x .13 = 105. Select a bath fan with at least 110 CFM.

Example 3: For a bathroom with a vaulted ceiling, use the average ceiling height at the wall and the peak: 8' wide x 12' long x ((8' at wall + 12' at peak) / 2 = 10' average height x .13 = 125. Select a fan(s) with at least 130 CFM.

Account for long duct runs and ductwork that turns before it reaches the exterior vent. When airflow is restricted in any way it slows down. Just as a car must slow down for a sharp corner, air decelerates when going through a turn in a duct run. Whenever possible, create a straight duct run with large radius turns, if they're

performance

A good ventilation fan is the product of research, testing and listening to the needs of consumers. At Broan we build these desires into ventilation products that provide the best mix of power, sound and quality for every budget.

necessary at all. Rigid ductwork is optimal because airflow restriction is minimized. Flexible tubing may be convenient to install, but resistance is created as air is moved over the spiral metal frame of the tubing. With long duct runs or ducts with multiple turns the fan works harder, noise increases and fan performance (CFM) is compromised. Select a fan model with an even greater CFM rating compensate.

6" ducting overcomes most performance-related Broan's ULTRA and QTX Series fans deliver high performance

installation issues. "a 6" duct connector for peak air movement and extremely quiet in virtually any real-world installation. They are engineered with operation, even when the duct run is not short and straight.

Ventilation Fans—Questions & Facts

Everything you need to know about home ventilation.

What is a sone, and how is it measured?

A sone is a measurement of sound in terms of comfortable hearing level for an average listener. The lower the sone value, the more comfortable the listening environment. Sones are not decibels or volume, but rather how sound is "sensed." One sone is the equivalent of a quiet refrigerator. Broan ULTRA[™] fans feature the quietest rating possible at <0.3 sones.

air quality

Broan has long been a leader in indoor air quality solutions. Our spot ventilation products for bathrooms and kitchens control problems at the source. **ULTRA[™]** Series Ventilation Fans featuring ULTRA Green[™] Energy Saving DC Motor Technology are a virtually silent continuous ventilation solution. Multi-speed models will quietly solve not only your excess humidity and odor problems when called upon but can pull double-duty as a great continuous ventilation solution.

What does CFM mean?

CFM is the acronym for Cubic Feet per Minute—the measure of air volume moved by the fan blower. Choose a fan with a CFM rating appropriate for your room size to ensure adequate ventilation.

What is continuous ventilation? Continuous ventilation provides today's airtight homes with a relatively constant and controlled lower level of ventilation. Broan's ULTRA[™] Series Ventilation Fans featuring ULTRA Green[™] Energy Saving DC Motor Technology are a virtually silent continuous ventilation solution for ASHRAE 62.2 and programs such as LEED, ENERGY STAR[®] for Homes and CA Title 24. Because they are available in both singlespeed (X1) and multi-speed (X2) versions, you can choose the functionality you require for the job.

Can I mount Broan fans above my tub and shower?

Most Broan fans are rated for use over a shower or bathtub with a GFCI (Ground Fault Circuit Interrupter).

Can my bath fan be surrounded by insulation?

Yes. Broan bath fans are designed to provide adequate cooling for motors and lighting, as well as products with integral heaters.

Will Broan fans work in wall-mount applications?

Some Broan bath and utility fans may be wall mounted. See the product matrix for specific models. Improper installation may affect fan life, safety and your warranty.

Will a bath fan or wall-mount utility fan serve as a range hood? No. Range hoods are specifically designed to handle grease and high temperature environments. Broan bath fans supplement odor and moisture removal in the kitchen, but are not intended for use as a range hood.

What does "static pressure" mean? Static pressure is the measurement of airflow resistance as it is pushed through ductwork which reduces the effectiveness of the fan. Learn more on the Home Ventilating Institute web site www.hvi.org.

How long should a bath fan run after a shower is used?

The Home Ventilating Institute recommends that a fan should be left on for 20 minutes more to clear humidity adequately and to ensure moisture and condensation in the fan body or ducting is minimized.

How can I assure that fog will automatically be cleared from my mirrors as quickly as possible?

The Broan ULTRA[™] Series with ULTRASENSE[™] H Humidity Sensing Technology automatically turns the fan on to eliminate excess moisture. They can sense a rapid rise in humidity and respond faster than fans or controls that wait for a relative humidity set point to be reached.

Is there a solution for family members that forget to turn the fan on?

The Broan ULTRA[™] Series with ULTRASense[™] M Motion Sensing Technology will automatically turn these multi-speed fans up to maximum power for humidity or odor when someone enters the room and include adjustable delay-off timers.

What are the timer features?

Delay-off timers automatically shut your fan off after a specified time interval. It's a nice feature in high traffic bathrooms where you may wish to let the fan run to clear moisture adequately. A timer counts down the minutes of fan operation selected by the user.

Where should the exhaust fan be located?

Exhaust fans should be located in or near the shower or tub, and in an enclosed water closet. Keep exhaust points opposite the supply air source to ensure that the fresh air is drawn through the room. Bathroom doors should not be sealed too tightly at the bottom in order to allow "makeup air" to enter the room when the door is closed.

Do I need attic access to install a fan in a retrofit situation?

In many cases you do, but the Broan ULTRA[™] Series Ventilation Fans with ULTRA Quick[™] Installation Technology allows fan installation in any type of joist or truss system without access from above in most applications. Easy retrofit installation from the room-side means not having to worry about installation conditions. ULTRA[™] Series Ventilation Fans have exclusive installation features such as a telescoping mounting frame, snap-in housing, snap-in blower and insideout mounting duct connector and wiring bracket that can be installed from the room-side.

How do I size a fan properly for my room size and the duct run? See the sizing guidelines on page 7 for details on proper sizing. This section provides an explanation and examples to help you make the right decision.

Where is the exhaust outlet on the ventilation fan?

The exhaust outlet is the point where air is discharged through the body of the fan housing into the ductwork. During installation, orient your fan with the exhaust outlet pointing toward the exit vent on your roof or wall to minimize turns in ductwork that impede airflow.

style

Style is a curious thing. To each individual it is something different. So Broan makes a range of unique products—some that stand out, others that blend in. But all suit every sense of style beautifully. Why do the windows and mirrors fog even when the fan is running?

If windows and mirrors are very cold, condensation can still form on these surfaces. And if your bathroom is sealed tightly, replacement air may not be entering the room fast enough to displace the moist air. Be sure to undercut your door sufficiently to draw fresh air into the room. Fan placement can also be a factor. Your fan should be located far from the replacement air source to ensure the moist air is drawn out first. Finally, too many twists and turns in the ducting will significantly reduce the ability of the blower to remove moist air. Make sure your ductwork is as short and straight as it can be, with gradual turns rather than tight corners where necessary.

Why is water dripping from the grille of the fan?

Dripping water is either condensation (usually due to cold ductwork or improper duct installation), or a problem with the seal on a wall or roof vent. Insulated ductwork can help solve condensation problems, and running the fan longer will ensure moisture is completely removed from the duct. Ductwork should slope down toward a wall vent to direct condensation out of the exterior vent opening rather than back into the fan housing.

Can I install a heater over the bathtub or in a shower? No. Heaters are not UL Listed (Underwriter's Laboratory) for installation over a bathtub or in a shower.

Can I use an inline or multi-port fan in one large bathroom? Yes, this works the best for large rooms because you can install the ports over the areas where the ventilation is needed the most (source control). The size of the multi-port would be determined by the size of the room.

Can larger diameter ducting be used with my bath fan? Yes, larger diameters will result in improved performance.

Can I use a smaller diameter duct than what the fan is designed for? This is not recommended. It will cause the fan to run harder, greatly reducing the CFM performance of the fan and create excess noise.

What type of duct is recommended, rigid or flexible?

It is recommended, where possible, to use rigid duct. It has less resistance to air flow and allows the fan to operate much more efficiently. If aluminum flexible duct is used, be sure the duct is as straight as possible.

Can I exhaust my fan into my attic instead of out the roof or wall? Never exhaust air into spaces within walls, ceilings, attics, crawl spaces or garages. Humidity may damage the structure and insulation.

What type of exhaust fan is best for a sauna or hot tub area? High CFM-rated devices are normally recommended for this type of application.

Can I use a fan in a steam shower? No. Since these are normally sealed chambers, a vacuum will be created.

Can I vent more than one bath fan out of a roof or wall cap?

No. Always follow the manufacturer's recommended ventilation requirements.

Premium ventilation helps reduce airborne pollutants.

Today's homes are built tightly for energy efficiency. But what's good for heating and air-conditioning bills means unwanted and unhealthy pollutants stay trapped inside unless they are mechanically vented away.

Intermittent and continuous ventilation.

Intermittent or "spot" ventilation focuses on removing contaminants from a specific area at a specific time, such as running a bath fan during a shower. Continuous ventilation—also known as whole-house ventilation—is becoming increasingly popular and continually removes contaminants generated in our homes every day.

Continuous ventilation is being required to meet building codes such as California Title 24, or green building standards such as LEED or ENERGY STAR® for Homes. These types of programs reference the ASHRAE 62.2 residential ventilation standard that details the amount of air in cubic feet per minute (CFM) needed for wholehouse ventilation, based on square footage and the number of bedrooms in the home (see chart below).

Broan offers multiple solutions for these applications. They not only meet the continuous or whole-house needs but also the spot or local ventilation needs traditionally associated with ventilation fans such as removing excess shower humidity or bathroom odors.

Our new ULTRA Series ventilation fans have the ability to easily and efficiently handle the job—especially multispeed models and those with ULTRA Sense[™] humidity or motion sensing technology.

Or you can choose our Broan SmartSense[®] system (see page 24–25) which allows multiple fans to communicate wirelessly for evenly distributed multi-point ventilation throughout the home.

ASHRAE 62.2

Whole	Building	Ventilation	Requirements
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For more details see ASHRAE Standard 62.2-2010

Use this simple formula or the chart to calculate the required CFM for continuous ventilation.

 $CFM = .01 \times floor area (in square feet) plus$ 7.5 x (number of bedrooms + 1).Example: A 3,000 square foot home with3 bedrooms would require 60 cfm:.01 x 3,000 = 307.5 x (3+1) = 30Add together for a total of 60 CFM

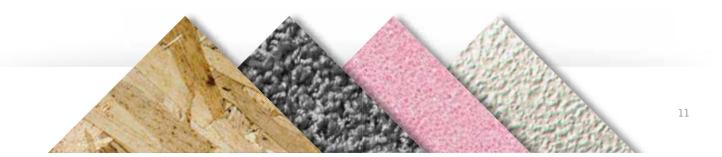


ULTRA[™] Series Ventilation Fans. The solution for spot and continuous ventilation needs.

Our exclusive ULTRA Smart[™] Control Technology enables these fans to maintain their powerful operation even at high static pressures, and supply the required air movement levels for whole-house ventilation while meeting the spot ventilation needs of a bathroom. Available in multi-speed versions, the continuous lower CFM levels of ULTRA[™] Series Ventilation Fans can be adjusted to meet the specific needs of each home.

For even greater ease of use, models with ULTRA Sense[™] Humidity or Motion Sensing Technology will automatically adjust to maximum CFM levels when the need is detected. Since whole-house fans may run at all times, quiet operation is extremely important. The last thing that anybody wants is to be kept awake by a loud fan. The ASHRAE 62.2 standard requires whole-house fans to be rated at 1.0 sones or less. All ULTRA[™] Series Ventilation Fans feature ULTRA Silent[™] Sound Technology, greatly surpassing this requirement by measuring a barely audible ≤0.3 sones. Choosing an ENERGY STAR[®] qualified fan is always a good idea, but it is even more important for whole-house fans that may run all the time. ULTRA[™] Series Ventilation Fans with ULTRA Green[™] DC Motor Technology meet ENERGY STAR[®] CFM-per-watt requirements and in some cases are nearly 10 times more efficient.

Excess humidity, for example, can cause damaging and unhealthy mold growth. Other pollutants include pollen and volatile organic compounds (VOCs) which off-gas from building materials or exist in products we use every day such as cosmetics and cleaning chemicals. Visit www.epa.gov for more information on pollutants.



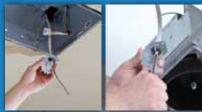
ULTRAQUICK[™] INSTALLATION TECHNOLOGY

ULTRA[®] Series Ventilation Fans are engineered to be the fastest, easiest, most universal installation in remodel, retrofit and new construction—in any type of joist or truss system. Exclusive features simplify room-side installation to save valuable time and money.

Pre-installed screws in the mounting frame enable quick installation.



Inside/outside wiring capability provides flexible new or retrofit installation.



For room-side installation, pull the duct through the opening, attach the duct to the connector, push the connector into place and fasten to the housing with only one screw.



Vertical positioning tabs ensure the housing is in the right place.



For no-hassle installation, the blower simply snaps into the housing.



You can hear—and feel—when fan housing snaps into place. The easy-to-position carriage enables location adjustment between joists to ensure desired ceiling placement.



The expandable mounting frame adjusts from 14"-24" and fits any type of joist, I-Joist or truss construction.

Fastest, Easiest, Most Universal Installation

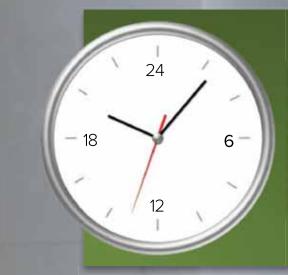
A revolution in ventilation fan technology engineered to simplify installation.

We didn't just change one thing to make installations faster, we changed everything. From a unique telescoping mounting frame that installs room-side to an easy-to-insert housing and blower that snap into place, we designed the ULTRA[™] Series for fast, easy, universal application.

No matter what's behind the drywall on your next job, you'll never have to do another difficult installation. ULTRA[™] Series Ventilation Fans and Fan/Lights are up to 60% faster in retrofits and up to 20% faster in new construction.

And just as important, the ULTRA[™] Series meets whole-house mechanical ventilation codes and green building program requirements. It's a revolutionary way to install and a revolutionary way to ventilate.





ULTRAGREEN[®] DC MOTOR TECHNOLOGY

ULTRA[®] Series Ventilation Fans are a virtually silent continuous ventilation solution for ASHRAE 62.2 and programs such as LEED, ENERGY STAR[®] for Homes and CA Title 24. Choose single speed or multi-speed versions to get functionality you require for the job. Our DC Motor is the most efficient in our line—80 CFM models use only 5.8 watts.

ULTRALUCENT

The design of the ULTRA[®] Series light lens distributes illumination evenly while using less wattage. 2–18 watt bulbs deliver the brightness of models previously requiring 60 watts of CFL output, maximizing the lumen output per watt of the bulb.



ULTRASMART CONTROL TECHNOLOGY

To virtually ensure full-rated performance regardless of the ducting situation — ULTRA[™] Series fans automatically monitor and adjust CFM output. For continuous ventilation needs, multi-speed models may be precisely set as low as 30 CFM to avoid costly over-ventilating. A second dial controls runtime at maximum CFM when lingering humidity and odors need to be cleared. Both dials need only be set once.

ULTRASILENT SOUND TECHNOLOGY

ULTRA[®] Series Ventilation Fans are HVI certified at a remarkable <0.3 Sones; the quietest sound rating obtainable. A dynamically balanced DC motor mounted behind the wheel, a state-of-the-art blower that reduces turbulence, and a free-flowing 6[®] duct outlet opening that won't inhibit airflow make it possible. There's no quieter fan available.



ULTRASENSE" H HUMIDITY SENSING TECHNOLOGY

ULTRA Sense" H sensing fans detect the rapid rise in humidity at the ceiling level. This means that they will react to shower humidity much faster than other competitive fans or wall controls that wait for a relative humidity set-point to be reached. You can enjoy a humidity-free, comfortable environment much more quickly when taking a shower or bath. Multi-speed models turn the fan speed up from the lower continuous CFM level. Single-speed models turn the fan on automatically. As humidity decreases the sensor initiates the shut-down timer (can be set from five to 60 minutes) and returns multi-speed fans to continuous ventilation levels, and switches single-speed models off.

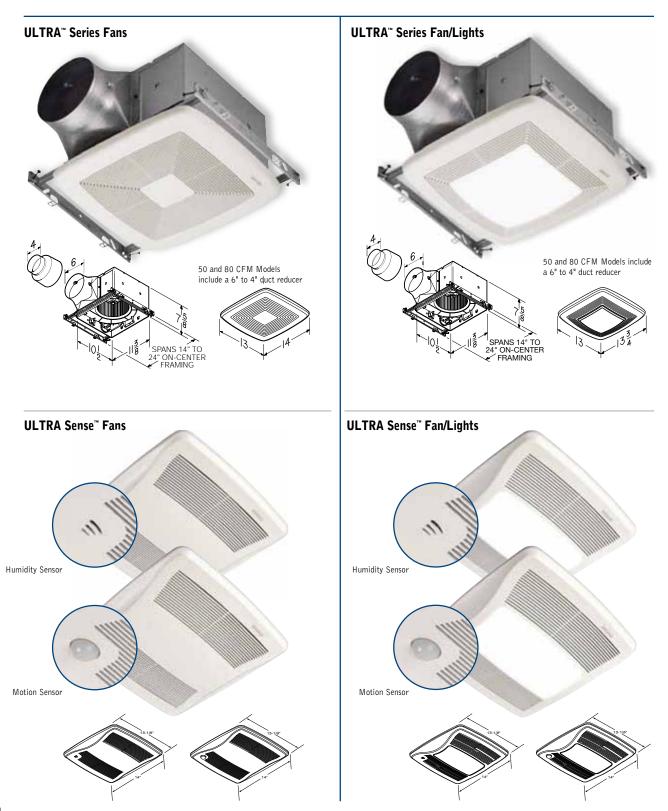
ULTRASENSE[®] M MOTION SENSING TECHNOLOGY

ULTRA Sense" M fans with multi-speed capability automatically turn the fan up to maximum speed from the lower continuous setting when motion is detected which is ideal for family members who forget to turn the fan on.

Fresh, comfortable air—not to mention a mold-free environment—becomes a constant companion without having to think about it. After motion is no longer present, the user-set delay timer (five to 60 minutes) will automatically turn the fan back down to ensure that humidity and odor have been fully cleared while saving energy. Once it's set, forget about it.



Broan ULTRA[™] Series Fans and Fan/Lights. Built for easy installation in either new construction or retrofit applications, the ULTRA[™] Series makes it simple to ventilate any room in the house. In today's tightly built homes, unhealthy pollutants and excess humidity stay trapped inside unless they are mechanically vented away. Exclusive ULTRA Smart[™] Control Technology enables fans to maintain their powerful operation—even at high static pressures—and provide required air movement levels for whole-house ventilation, all while meeting spot ventilation needs on demand. Continuous CFM levels can be precisely adjusted to meet the specific needs of each home.



ULTRA[™] Series Fan and Fan/Light Features

- HVI certified at <0.3 Sones, ULTRA Silent[™] Sound Technology provides the quietest sound rating obtainable
- 50, 80 or 110 CFM
- Intermittent and continuous ventilation
- ULTRA Smart[™] Control Technology monitors performance and adjusts motor speed to ensure rated air movement
- Energy Star[®] qualified with ULTRA Green[™] DC Motor Technology
- ULTRA Quick[™] Installation Technology saves time with the fastest, easiest, most universal installation
- XB and ZB models feature 6" ducting 50 and 80 CFM models include an optional 6" to 4" duct reducer
- Bright, energy efficient 36-watt fluorescent lighting
- UL Listed for use over bathtub or shower when connected to a GFCI protected branch circuit
- Type IC
- Fits 2" x 8" ceiling construction
- Optional RDFI Premium Radiation Damper Kit available for models ZB110, ZB80, XB110, XB80 & XB50

Model	CFM	Sones	Light [.] / Night Light	Humidity Sensing	Motion Sensing	Ducting	ENERGY STAR®
Single-speed	Fans						
XB50	50 50	<0.3 <0.3	—	_	_	6" 6" to 4" reducer	Yes
XB80	80 80	<0.3 0.3	—	_	_	6" 6" to 4" reducer	Yes
XB110	110	<0.3	—	—	—	6"	Yes
XB110H	110	<0.3	—	Yes		6"	Yes
Single-speed	Fan/Lights						
XB50L	50 50	<0.3 <0.3	2-18W GU24/4W	_	_	6" 6" to 4" reducer	Yes
XB80L	80 80	<0.3 0.3	2-18W GU24/4W	_	_	6" 6" to 4" reducer	Yes
XB110L	110	<0.3	2-18W GU24/4W	_	_	6"	Yes
XB110HL	110	<0.3	2-18W GU24/4W	Yes	_	6"	Yes
Multi-speed	Fans						
ZB80	80 80	<0.3 0.3	_	_	_	6" 6" to 4" reducer	Yes
ZB80M	80 80	<0.3 0.3	—	—	Yes	6" 6" to 4" reducer	Yes
ZB110	110	<0.3	—	—	_	6"	Yes
ZB110H	110	<0.3	—	Yes	_	6"	Yes
ZB110M	110	<0.3	—	—	Yes	6"	Yes
Multi-speed	Fan/Lights						
ZB80L	80 80	<0.3 0.3	2-18W GU24/4W	_	_	6" 6" to 4" reducer	Yes
ZB80ML	80 80	<0.3 0.3	2-18W GU24/4W	_	Yes	6" 6" to 4" reducer	Yes
ZB110L	110	<0.3	2-18W GU24/4W	_	_	6"	Yes
ZB110HL	110	<0.3	2-18W GU24/4W	Yes	_	6"	Yes
ZB110ML	110	<0.3	2-18W GU24/4W	_	Yes	6"	Yes



ENERGY STAR[®] fans use 65% less energy, on average, than standard models and may qualify for local utility rebates. A See page 54 for 6[®] ducting (DT6W) product specifications.



¹Bulb included

RDF1 Premium Radiation Damper

When the air temperature passing through the damper exceeds $165^{\circ}F$ the fusible link melts, triggering the thermal fabric to automatically close across the damper. Airflow is interrupted by a flame and heat barrier, preventing the rapid spread of fire to other areas.

- Galvanized steel frame
- High temperature, non-asbestos, reinforced fiber thermal fabric
- Stainless steel closure springs
- 165°F fusible link
- Use the same grille provided with the ULTRA[™] Series fan
- For use with models ZB110, ZB80, XB110, XB80 and XB50



Some of our quietest fans are also some of our most powerful and stylish.



Well designed styles that blend into your room.

The Broan QT Series.

There's a time for noise and excitement, and there's a time for more simple pleasures. The peaceful moment needn't be lost simply because your bath ventilation fan is uncomfortably loud. The very quiet Broan QT Series solves everything.

Lower sones and more power.

The Broan QT Series[™] continues to provide very low operating noise levels—most under one sone. However, quiet operation doesn't mean you have to sacrifice powerful operation. The QT Series is one of Broan's best when it comes to maintaining strong airflow in real world installations. Whether you choose a bath fan, a fan/light or a combination heater/fan/light, Broan has a perfect solution for every room.



Model QTRE Humidity Sensing Fan, page 22



Model QTXE Humidity Sensing Fan, page 22



Model QTRE & QTR Fans, page 20



Model QTXE Fans, page 20





Model QTXE Fan/Lights, page 21

Model QTXE Humidity Sensing Fan/Lights, page 22

Model QTRE & QTR Fan/Lights, page 21

QT Series[™]-Fans

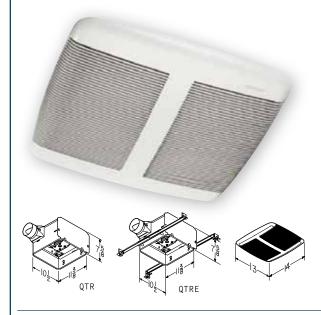
Broan QT Series[™] **Bath Fans.** A bath fan needn't call attention to itself, especially when you don't want it to overpower the design of your bath or powder room. More important, it shouldn't call attention to itself when it's working. So we developed the QT Series[™] to provide very relaxing ventilation. With an energy efficient option, it simply does its job quietly, in every sense of the word.

QTXE, QTRE and QTR Fan Features

- Very quiet operation <0.3 to 1.5 sones
- 50 CFM to 150 CFM
- QTXE features 6" ducting for superior performance
- QTRE and QTR models feature 4" ducting
- QTRE and QTXE models are ENERGY STAR® qualified
- HVI Certified

- QTXE, QTRE and Housing Project Packs include hanger bar system for fast, flexible installation for all types of construction
- Motor engineered for continuous operation
- UL Listed for use over bathtub or shower when connected to a GFCI protected branch circuit
- Fits 2" x 8" ceiling construction

QTRE & QTR Models



QTRE080C2S QT Select Air[™] ventilation fan

Many rooms in the home can benefit from extra ventilation not just the bathroom. Kitchens, laundry rooms, media rooms and closets are just a few examples. Now you can provide these rooms with extremely quiet ventilation at a more continuous lower level or in a boost mode whenever needed.

- 80 CFM at 0.8 Sones in boost mode
- 40 CFM at <0.3 Sones in normal mode
- Energy Star[®] qualified
- 4" ducting

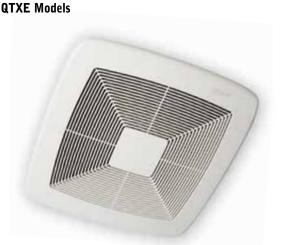
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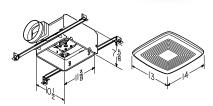
• HVI certified

Fan Model	CFM	Sones	ENERGY Star®	Bath Sq. Ft.	Ducting
QTRE080C2S	80/40	0.8/<0.3	Yes	75	4"
QTRE080	80	0.8	Yes	75	4"
QTRE110	110	1.3	Yes	100	4"
QTR050+	50	0.4	—	45	4"
QTR080	80	1.0	—	75	4"
QTR110	110	1.5	—	100	4"

ENERGY STAR" fans use 65% less energy, on average, than standard models and may qualify for local utility rebates. A See page 54 for 6" ducting (DT6W) product specifications. HOY STAR + Only available in project packs.







Fan Model	CFM	Sones	ENERGY STAR®	Bath Sq. Ft.	Ducting
QTXE050	50	<0.3	Yes	45	6"▲
QTXE080	80	0.3	Yes	75	6"▲
QTXE110	110	0.7	Yes	100	6"▲
QTXE150	150	1.4	Yes	140	6"▲

ENERGY STAR[®] fans use 65% less energy, on average, than standard models and may qualify for local utility rebates. A See page 54 for 6" ducting (DT6W) product specifications. ^{TARR} + Only available in project packs.



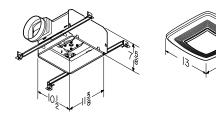
Broan QT Series[™] **Fan/Lights.** The QT Series[™] is the ultimate bath fan solution for today's homes. Select a QT Series[™] fan/light to bring simple elegance to any bath or powder room. By sight or by sound, you'll barely notice a QT Series[™] fan. Except, of course, when you need just the right amount of ventilation and light at the touch of a switch.

QTXE, QTRE and QTR Fan/Light Features

- Very quiet operation <0.3 to 1.5 sones
- 80 CFM to 150 CFM
- QTXE models feature 6" ducting for superior performance
- QTRE and QTR models feature 4" ducting
- QTRE and QTXE models are ENERGY STAR $^{\!\!\!\circ}$ qualified
- Bright, energy efficient 36-watt fluorescent lighting (2-18 watt GU24 based bulbs) included with non-sensing QTXE and QTRE models
- 100 watt lighting from an incandescent bulb on QTR models
- 4 watt night light on all models

- QTXE, QTRE and Housing Project Packs include hanger bar system for fast and flexible installation for all types of construction
- Motor engineered for continuous operation
- UL Listed for use over bathtub or shower when connected to a GFCI protected branch circuit
- HVI Certified
- Type IC
- Fits 2" x 8" ceiling construction



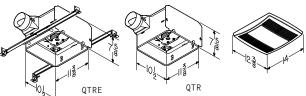


Model	CFM	Sones	Light/ Night Light	ENERGY Star®	Ducting
QTXE080FLT	80	0.3	36W [•] / 4W	Yes	6"▲
QTXE110FLT	110	0.7	36₩ [◆] /4W	Yes	6"▲
QTXE150FLT	150	1.4	36W [•] / 4W	Yes	6"▲
QTRE080FLT	80	0.8	36W [•] / 4W	Yes	4"
QTRE110FLT	110	1.3	36W [•] /4W	Yes	4"
QTR080L	80	1.0	100W/4W	_	4"
QTR110L	110	1.5	100W/4W	—	4"
-					

ENERGY STAR[®] fans use 65% less energy, on average, than standard models and may qualify for local utility rebates. A See page 54 for 6" ducting (DT6W) product specifications.







New styling and improved lighting make Broan's QT fan lights even better.

- Light output has been significantly increased, while using 14 fewer watts.
- Lighting design enhancements provide a brighter, broader flood-light effect.
- Improved light diffusion hides hotspots/bulbs.
- Convenient GU24 bulbs are readily available.
- A restyled, low-profile grille on QTXE models blends with any decor.
- Design and lighting improvements were made without increasing sound levels.

QT Series[™] Fans and Fan/Lights-Humidity Sensing

QT Series^{**} **Humidity Sensing Fans with Sensaire**[®] **Technology.** Broan Sensaire[®] technology is a hands-free solution to fighting excess humidity and possible mold problems. It detects rapid increases in moisture levels at the ceiling, where steam and humidity naturally rise, and automatically turns the fan on. With a fan this quiet, we included automatic shutoff to save worry, and money. Broan Sensaire[®] technology is a perfect solution for high traffic bathrooms, the kids' bathroom, or for anyone who leaves the house before humidity is properly vented.

QTXE and QTRE Sensing Fan Features

- Detects a rapid rise in humidity
- Humidity is sensed at the ceiling level
- QTXE110S features easily accessible sensitivity adjustment
- Easy-to-set shut-off timer: 5-60 minutes on QTXE110S
- Auto shut-off timer: 20 minutes on QTRE100S
- Fits 2" x 8" ceiling construction

- UL Listed for use over bathtub and shower when connected to a GFCI protected branch circuit
- Includes hanger bar system for fast and flexible installation for all types of construction
- ENERGY STAR[®] qualified
- HVI Certified





CERTIFIED

Hands-free solutions to fighting excess humidity and mold. Broan's humidity sensing fan/light turns the fan on and off automatically to help prevent cosmetic and possible mold problems associated with excess moisture.

- Detects a rapid rise in humidity
- Humidity is sensed at the ceiling level
- Sensitivity level is adjustable
- Easy-to-set shut-off timer: 5-60 minutes
- UL Listed for use over tub or shower when installed in a GFCI protected branch circuit
- Includes hanger bars for fast, flexible installation in all types of construction
- HVI Certified
- Fits 2"x 8" ceiling construction

specifications.

Project Packs Available for QTRE100S model

To simplify installation, a Project Pack is available with four fan housings. When drywall work and painting is complete, the fan components needed to finish the job are available in a single pack under a separate model number. The finish kit includes the motor plate, motor, wheel and grille. See the matrix below for Project Pack order information.

Project Pack	Kit number:	For model:
Four-pack of FAN housings only:	HQTS4	
One-pack finish kits for FAN models:	FQTRE100S	QTRE100S

Retrofit a QT Series[™] fan in less time, with less work.

With a telescoping frame and a unique duct attachment system, installation is simplified. The fan goes in faster, connects to joists more solidly, and eliminates unprofessional "rigging." There's also no patching, priming or painting when you're done.

That's what the Broan QTRE080R Retrofit Fan does for you. •UL Listed for use over tub or shower when installed in a GFCI

- protected branch circuit
- •HVI Certified
- •ENERGY STAR[®] qualified
- •Fits 2" x 8" ceiling construction

Fan Model	CFM	Sones	ENERGY STAR®	Bath Sq. Ft.	Ducting
QTRE080R	80	0.8	Yes	75	4"

Project Packs Available for QTRE and QTR models

To simplify installation, Project Packs are available with either four fan or fan/light housings only. When drywall work and painting is complete, the fan components needed to finish the job are available in single packs under separate model numbers. These finish kits include the motor plate, motor, wheel and grille. See the matrix below for Project Pack order information.

Project Pack	Kit number:	For model:
Four-pack of FAN housings only:	QTXR000HF	
One-pack finish kits for FAN models:	QTRE080F	QTRE080
	QTRE110F	QTRE110
	QTR050F⁺	QTR050⁺
	QTR080F	QTR080
	QTR110F	QTR110
Only available in Project Packs		

Only available in Project Packs.

Project Packs Available for QTRE Models

To simplify installation, Project Packs are available with either four fan or fan/light housings only. When drywall work and painting is complete, the fan components needed to finish the job are available in single packs under separate model numbers. These finish kits include the motor plate, motor, wheel and grille. See the matrix below for Project Pack order information.

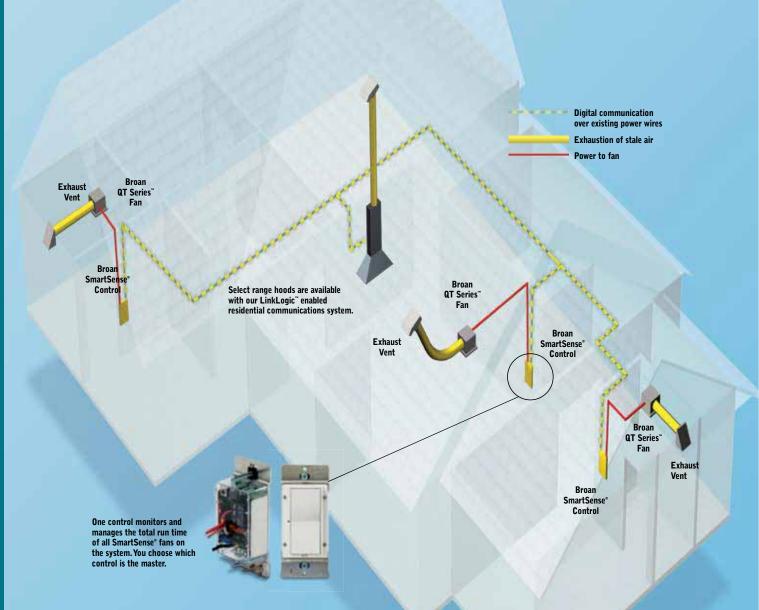
QTRE080FLT
QTRE110FLT











Broan SmartSense[®] and QT Series ventilation fans work together.

LinkLogic

Broan SmartSense® uses LinkLogic® a powerful, wireless home control technology powered by INSTEON."

- New timed-off and delayed-off features with new firmware.
 Automatically operates the SMD series Make-Up Air Damper
- for installations requiring make-up air.
- Interfaces with other LinkLogic° enabled products by Broan° or Best?

Model	CFM	Dimension
SSQTXE080	80	11-3/8 x 10-1/2 x 7-3/4
SSQTXE110	110	11-3/8 x 10-1/2 x 7-3/4





Broan SmartSense[®] Ventilate your home intelligently.

Broan SmartSense[®] is another smart choice to meet ASHRAE Standard 62.2 and related codes/guidelines (see information on page 10). Like the Broan ULTRA[™] Series (pages 11–17), SmartSense will take care of both continuous and spot ventilation requirements.

An economic alternative to other systems.

Every home will have several ventilation fans. Why not install a system that will automatically operate your fans and ventilate your home properly? With multiple fans around the home working together, a SmartSense® system results in stale air being exhausted from various points throughout the home so everyone can enjoy the benefits of fresh, healthy air. Broan SmartSense fans can be wired as easily as the average ventilation fans, no separate control wiring is necessary. The LinkLogic control is programmed to match the home's size, and adjusts total runtime based on the square footage and number of bedrooms. This system is more cost and energy efficient than other ventilation strategies that require the use of the home's air handler. With only one fan running at a time, Broan SmartSense® uses less than 40 watts during ventilation cycles.

How does it work?

The Broan SmartSense system monitors and activates Broan QT Series fans 24/7 throughout the home. Broan QT Series fans operate at a barely audible 0.3 and 0.7 sones, so even in a bedroom you'll never know they're running.

Broan Automatic Make-Up Air Dampers enable efficient and effective home ventilation.

The damper communicates with every SSQTXE080 and SSQTXE110 fan in the home to ensure a supply of fresh air is available while fans are being operated. They can also be linked with select Best[®] and Broan range hoods to form a complete balanced ventilation system. This assists in maintaining a healthy air-pressure balance in the home while preventing unwanted air infiltration and wasted energy. SmartSense[™] automatically operates the SMD Series Make-Up Air Damper for those installations requiring make-up air.

Easy Installation of Broan Make-Up Air Dampers

- Located in a 6-inch or 8-inch duct running between an exterior wall fresh air inlet (641FA or 643FA) to an interior location such as a cold-air return or supply duct.
- Damper is locally powered by a 24 VAC transformer.
- Damper and fans communicate over existing home electrical wiring. No additional interconnection required.

Broan Make-Up Air Dampers feature:

- Heavy-duty galvanized steel construction.
- 24 VAC transformer.
- 6-inch round (SMD6), 8-inch round (SMD8).
- Use with any single fan or combination of SSQTXE080 or SSQTXE110 fans.

New Features

- Flexible enough to work a single fan or as part of a system of up to 10 fans.
- Automatic Off–Prevents the homeowner from leaving a QTXE SmartSense[®] fan on for extended periods of time because the fan could not be heard.
- Delayed Off-Automatically continues to run the SmartSense® fan for 20 minutes after the SmartSense control is manually turned off. This feature ensures all excess moisture is removed from shower areas.
- Includes control label required by ASHRAE 62.2, California Title 24 and other building codes and standards. Meets intermittent and whole-building ventilation requirements of green building programs such as Leadership in Energy Efficient Design (LEED), NAHB Green Building Guidelines and ENERGY STAR Indoor Air Package.

Broan Make-up Air Dampers. Bring fresh air inside intelligently.

Elegant designs to meet any need and complement any room.



Broan Ventilation Fans. Where high function meets practical design.

In the short span of less than an hour each day, steamy showers can produce mold and mildew-fostering vapor. Look to Broan, the ventilation experts, to help you keep your house fresh.

Broan engineers the right product to fit every application, room size and need. Select from a variety of features that best meet your spot ventilation needs. Begin by assessing your application, room size and needs to determine how powerful the blower should be or whether you could use additional lighting in your space. Think about what product style, finish or shape would look best in your space.

Rest assured, if you're concerned about saving money and energy, Broan bath fans that feature the Energy Star[®] logo can reduce energy consumption by as much as 65%. Broan has the perfect product designed around your needs.

selection

There's a Broan ventilation solution perfectly matched to your needs for power, size, style and budget.

Ventilation – Fans and Fan/Lights

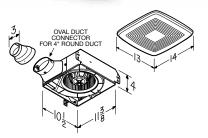
LoProfile



The right fan for a tight fit.

The new Broan LoProfile[™] Fan is our latest solution for installations where conventional ventilation simply won't fit. Where multi-family applications require it, the LoProfile[™] fan is narrow enough to be installed in a wall between 2x4 studs. When plumbing or electrical obstructions are found behind the drywall in ceiling remodel applications our LoProfile[™] fan can still fit without having to move anything. And that means most any room with space constraints can have powerful, quiet, efficient ventilation.

- Fits in 2x4 ceiling or wall construction
- 80 CFM with 4" duct ensures ample air movement; 70 CFM with 3" duct reducer
- >50 CFM at 0.25" static pressure meets ASHRAE 62.2 local ventilation requirements (with 4" oval duct or 3" round duct)
- Only 1.1 sones for extremely quiet operation
- 4" oval or 3" round duct connection for installation flexibility
- Efficient operation lowers utility bills
- Ideal for multi-family applications
- Compatible with RDF1 Premium Radiation Damper (see page 17)





The oval connector accepts standard 4" duct, or 3" duct with the supplied adapter.

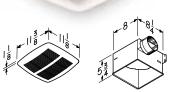


Electrical connections can be made through the top or the side of the housing.

Model	CFM	Sones
LP80*	80	1.1
energy * ENER	GY STAR® qualified.	

Model 770 and 784

Ceiling Mount



- 50 to 80 CFM
- Centrifugal blower wheel and 4-pole motor deliver high exhaust capacity at low sound levels
- White polymeric grille complements virtually any decor
- Torsion spring grille mounting—no tools necessary
- Metal grille kits (available separately)
- Project Packs available

CFM	Sones	Ducting
50	1.5	4"
80	2.0	4"
	50	50 1.5

*ENERGY STAR[®] qualified.

Model 778WH



- White finish with White Opal glass globe
- Energy-efficient 26 watt fluorescent lighting_uses two 13 watt GU24 base
- lighting—uses two 13 watt GU24 based bulbs (included)
- Hanger bars included

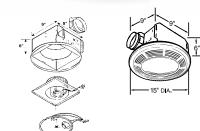
Model	CFM	Sones	Lighting	Ducting	
778WH*	80	2.0	2-13 W GU24 fluor.	4"	
*ENERGY STAR [®] qualified.					

Ventilation – Fans and Fan/Lights



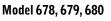
Model 750 & 751

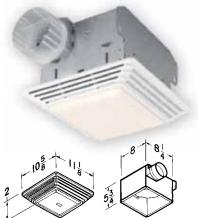




- Round design eliminates squaring with bathroom walls
- Model 751 is the same as Model 750 without a night light

Model	CFM	Sones	Light/ Night Light	Ducting
657	70	4.0	100 W	4"
696	100	4.5	100 W	4"
750	100	3.5	100 W/7 W	4"
751	100	3.5	100 W	4"
				8 2100





CFM	Sones	Lighting	Ducting
50	2.5	100 W	4"
70	3.5	100 W	4"
100	4.0	100 W	4"
	50 70	502.5703.5	50 2.5 100 W 70 3.5 100 W

Ceiling/Wall Mount Model 676 & 684



- 50 to 110 CFM
- Centrifugal blower wheel and 4-pole motor deliver high exhaust capacity at low sound levels
- White polymeric grille complements virtually any decor
- Torsion spring grille mounting - no tools necessary
- Metal grille kits (available separately)
- Project Packs available

Model	CFM	Sones	Ducting
676	110	4.0	4"
684	80	2.5	4"

Model 670, 671, 688, 689



• 50 to 70 CFM

- Powerful centrifugal blower wheel
- Compact housing fits between ceiling joists or wall studs
- Double-strength steel mounting flanges with keyhole slots for fast installation
- Metal grille kits (available separately)
- *Project Packs available for most models

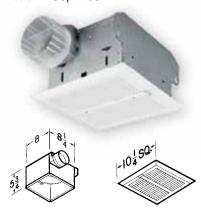
Model	CFM	Sones	Ducting	Mounts
670	50	3.5	3"	Wall/Ceiling
671	70	6.0	3"	Wall/Ceiling
688	50	4.0	3"	Wall/Ceiling
689	60	5.5	3"	Wall/Ceiling

Project Packs are convenient options for today's contractor. Broan "H" Packs include rough-in housings only, making multi-unit installation more convenient. "F" Packs allow motor/blower and grille assemblies to be ordered separately, nearer project completion, to help avoid losing or having to store components.



Bath Fans and Fan/Lights

Heavy-duty operation Model HD50, HD80



Model HD50L, HD80L



- · Enclosed motors with long-life bearings for continuous operation
- Rugged metal fan grille for added durability (HD50 and HD80)
- HD50 and HD80 can be mounted in wall or ceiling
- Grille torsion spring-mounted for easy installation
- Pre-wired outlet for plug-in motor plate
- AMCA licensed for both air and sound (HD50 and HD80)

Model	CFM	Sones	Lighting	Ducting
HD50*	50	1.5	—	4"
HD50L	50	1.5	100W	4"
HD80	80	2.5	_	4"
HD80L	80	2.5	100W	4"

ENERGY STAR® qualified.

Radiation/Fire Damper Fan Project Packs

A fire resistant screen automatically closes when excessive heat is detected. The breakaway fusible link triggers the closing of the radiation damper's fire resistant screen to prevent smoke and fire from traveling through the ductwork.





- 165° fusible link
- Galvanized Steel Frame
- Stainless steel negator-type closure spring
- UL Classified (UL Standard 555C) for use in 1-, 2-, 3-hour fire-rated floorceiling or roof-ceiling designs
- All models offered as Project Packs
- HD models feature a heavy-duty motor

Project Housing Pack includes:

- Rough-in housing with attached radiation/fire damper
- Adjustable hanger bars that span up to 24"
- 4" metal duct connector with damper

Model RDH



Project Finish Packs include:

- · Assembled motor plate, wheel and plug-in motor
- Rugged metal grille for added durability
- Works with 80RDF, 110RDF, HD50RDF and HD80RDF

Models 80RDF, 110RDF, HD50RDF & HD80RDF



Model RDJ1



Radiation Damper Accessory Kit includes:

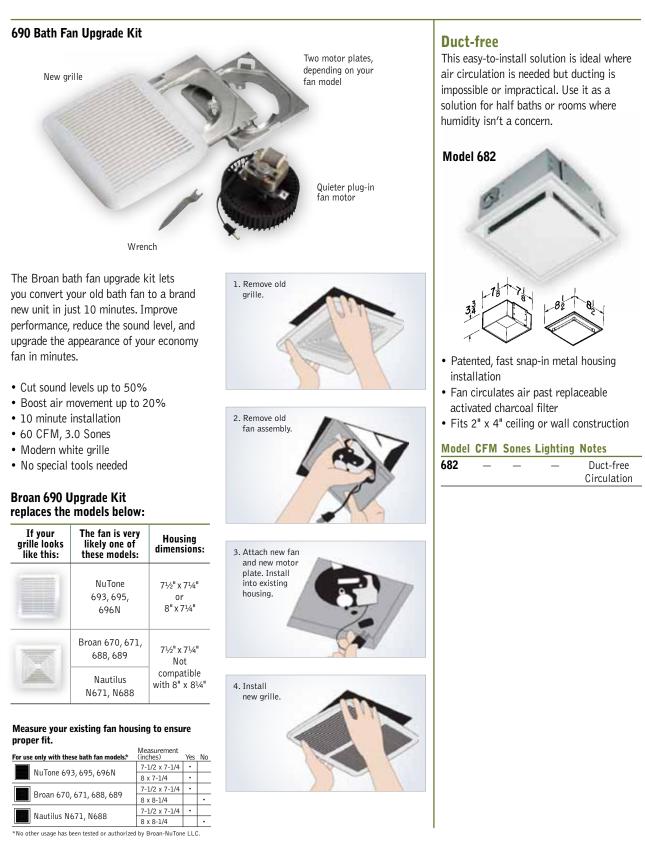
- Radiation damper accessory with metal grille, metal duct connector, hanger bars and plaster guard (no housing)
- Works with 770, 784, 676, 684, HD50 and HD80

Model	CFM	Sones	Type/Pack Quantit	ty Notes
RDH	_	_	Housing/4	_
RDJ1	_	_	Housing/1	_
80RDF	80	2.5	Finish/4	—
110RDF	110	4.0	Finish/4	_
HD50RDF*	50	1.5	Finish/4	Heavy-duty Motor
HD80RDF	80	2.5	Finish/4	Heavy-duty Motor





Bath Fans and Fan/Lights



The broadest variety of ventilation options for any room in your home.



Keep any room in your home fresh with Broan fans.

Broan knows that living in your home means needing ventilation in a variety of rooms. That's why our specialty line of utility fans, in-line fans and hidden ventilation solutions allow you to ventilate clean, fresh air where you need it most. Whether it's the specialized bath needs, laundry room, recreation room, workshop or kitchen, we have it covered. Look to our room-to-room, wall/ceiling mount, through-wall or vertical discharge utility fans for spot ventilation. Or, install our remote mounted in-line ventilation fan for a quiet whole-house solution. And, prepare to be blown away with our recessed fan/ lights that disappear into the ceiling by matching perfectly with other recessed lights. Our humidity sensing recessed fan light even starts automatically when it detects a rapid rise in humidity so you never have to turn the fan on again. Elegant, simple, practical, high-performance. Exactly what you've come to expect from Broan.

power and style

Broan has powerful ventilation products for residential and commercial applications, as well as elegant designs that coordinate perfectly with your decor. Choose a fan that fits the needs of any room.



Hidden Ventilation



Decorative Fan/Lights





Utility Ventilation

In-Line Ventilators

You'd never know it's a fan, and that's the point.



Specialty Fans and Fan/Lights-Hidden Ventilation

Broan took recessed lighting a step further by incorporating powerful, quiet ventilation in the same design.

These fan/lights disappear into the ceiling and match perfectly with other recessed lights. Models 744, 744FL and 744LED are practical ventilation solutions for any room in the house, such as the utility room, kitchen or high-traffic family room—any space you wish to keep fresh and comfortable. In the bath, Model 744SFL starts automatically when a rapid rise in humidity is detected. You'll never forget to turn the fan on again.

744 Series Recessed Fan/Light Features

- High efficiency centrifugal fan
- 70 CFM at 1.5 sones
- Trim matched to designs of major recessed light manufacturers
- Put multiple units in larger rooms
- Model 744 uses a 75 watt max bulb (R30 or BR30 for standard applications)
- Models 744FL and 744SFL include a 16 watt, GU24 based, R30 shaped CFL bulb (included)
- Model 744LED includes a 14 watt, GU24 based LED bulb (included)

Humidity Sensing Model 744SFL Features

- SensAire® technology detects the rapid rise in humidity and automatically turns the fan on and off
- Humidity is sensed at the ceiling level
- · Easily accessible sensitivity adjustment
- Easy-to-set 5-60 minute shut-off timer

- All models UL Listed for use over bathtub or shower when connected to a GFCI protected branch circuit. Model 744 requires a PAR30L or PAR30LN type bulb (not included)
- 6-7/8" high housing appropriate for new construction and 2" x 8" ceiling joists
- 4" round duct connector
- Optional wall control switches available
- Type IC, sealed housing
- Not for use over cooking surfaces

SensAire[®] technology behind the trim detects changes in humidity and automatically turns the fan on and off.

18		
		Hu

Model	CFM	Sones	Lighting	Humidity Sensing	ENERGY Star®	Ducting
744	70	1.5	75W max	_	_	4 "
744FL	70	1.5	16W Fluor.	_	Yes	4 "
744LED	70	1.5	14W LED	_	Yes	4 "
744SFL	70	1.5	16W Fluor.	Yes	Yes	4 "



 $\mathsf{ENERGY}\ \mathsf{STAR}^*$ fans use 65% less energy, on average, than standard models and may qualify for local utility rebates.



Specialty Fans and Fan/Lights — Decorative Fan/Lights

A beautiful balance of elegance and performance. Now you can ventilate while adding quiet elegance and exceptional design to your bathroom or any other room in your home. The Broan series of decorative fan/lights delivers quality ventilation performance and complements your room with beautifully styled glass globe lighting. These fan/lights are available in corrosion-resistant decorator finishes.

Decorative Fan/Light Fixture Features

- 70 or 80 CFM
- 3.5 or 2.5 Sones
- Corrosion-resistant finishes
- Beautifully styled glass globes
- Use two 60-watt incandescent candelabra bulbs (not included)
- · Plug-in lighting fixture and permanently lubricated motor
- Polymeric blower wheel

- Not UL approved for use over bathtubs or showers
- Sturdy, keyholed mounting brackets for quick, accurate installation
- Fits 2" x 6" ceiling construction
- Tapered, polymeric 4" round duct fitting for easy, positive duct connection and no metallic clatter

Oil-Rubbed Bronze

Satin Nickel

Gloss White

Ivory Alabaster

Frosted

Frosted

• Type IC



766RB

741SN

741WH

80

70

70

2.5

3.5

3.5

2-60W

2-60W

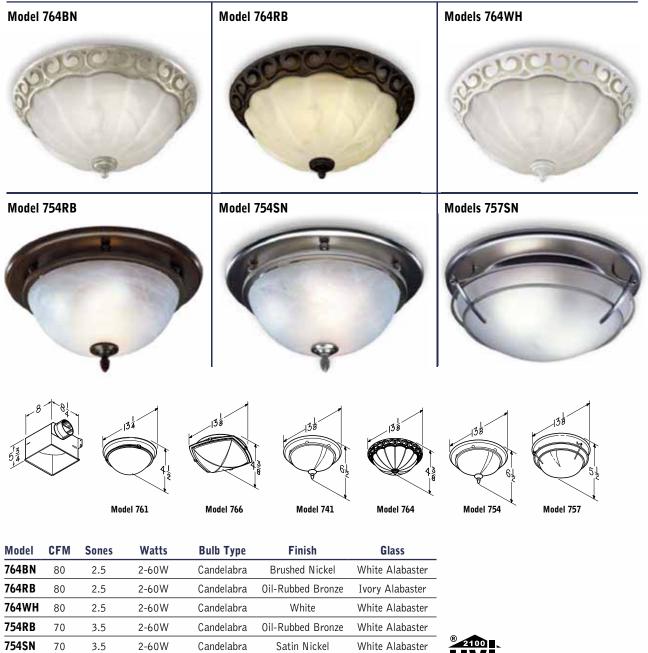
2-60W

Candelabra

Standard

Standard

Specialty Fans and Fan/Lights — Decorative Fan/Lights





Frosted



Satin Nickel

757SN

2.5

80

2-60W

Candelabra

Specialty Fans and Fan/Lights-Utility Fans



Powerful solutions for problem rooms.

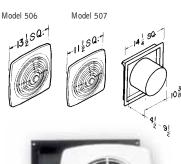
Eliminate humidity or tobacco smoke from recreation rooms, workshops, or cooking odors from kitchens with these powerful utility ventilators. Aluminum filters are available for most models. All feature powerful, permanently lubricated motors and rugged steel housings. Paint the low-profile white polymeric grilles to match any décor.

Chain-Operated utility fan

- Pull-chain opens the door and starts fan
- Housing adjusts to fit walls from
- 4-1/2" 9-1/2" thick • Specially designed polymeric fan blade
- Housing features foam-insulated door for energy efficiency



Model 506 • 10" Wall Fan





Model 507

• 8" Wall Fan (8-3/8" diameter sleeve)

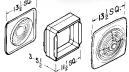


	CFM	Sones	Diameter	Sizing Specifications
Wall/Ceiling-Mo	unt, Side Di	ischarge		
502	270	8.0	10"	Fits 3-1/4" x 10" duct
503	160	5.0	8"	Fits 3-1/4" x 10" duct
Chain-Operated				
506	470	8.0	10"	Fits 4-1/2" – 9-1/2" thick walls
507	250	7.0	8"	Fits 4-1/2" – 9-1/2" thick walls
Room-to-Room				
510	380	6.5	10"	Fits 3" – 5-1/2" thick walls
511	180	4.5	8"	Fits 3" – 5-1/2" thick walls

Room-to-Room

- Room-to-Room ventilators provide quick solutions where more ventilation is needed - without installing new ductwork
- Built-in variable speed control
- Easy installation through wall 3" - 5-1/2" thick
- · Permanently lubricated motor
- Paintable white polymeric grilles





Model 510

- 10" Room-to-Room fan
- Not for use in kitchens

Model 511 (shown)

- 8" Room-to-Room fan
- Not for use in kitchens

Wall/Ceiling Mount – Side Discharge

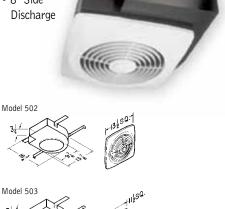
- Installs easily between ceiling joists or wall studs
- Built-in damper prevents backdrafts
- Fits 3-1/4" x 10" duct

Model 502 (shown)

• 10" Side Discharge

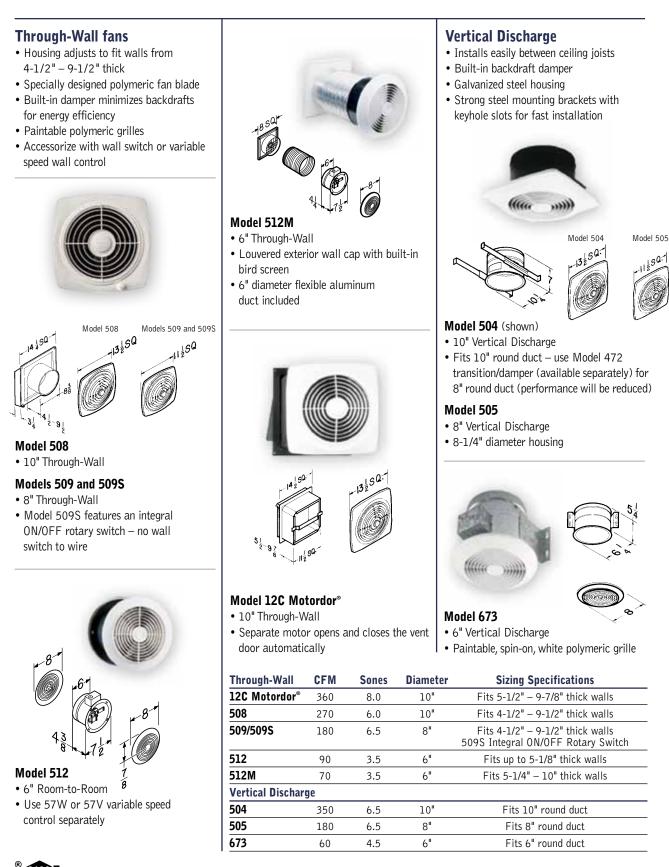
Model 503

• 8" Side



38

Specialty Fans and Fan/Lights-Utility Fans



CERTIFIED

Specialty Fans and Fan/Lights-In-Line Fans

Remote Mounted In-Line Ventilation Fans are quiet and efficient residential solutions. The concept is simple: mount a high-performance ventilator in an out-of-the-way spot and you get the power with virtually no sound. Install the housing in the attic or the basement, wherever it's most convenient and discrete.

Multi- and Single-port In-Line Ventilators Features

- Energy-efficient, permanently lubricated motors
- High pressure centrifugal blowers easily accommodate long duct runs
- Designed for quick, easy installation
- HVI certified and AMCA licensed

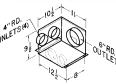
- Suitable for intermittent or continuous ventilation applications
- Removable panels offer easy access to the motor without disturbing ductwork
- Plug-in blower simplifies wiring

Multi-Port In-Line Ventilators

- Ventilate multiple bathrooms or other rooms simultaneously
- Great solution for large, open spaces
- Install in virtually any orientation

Model MP100, MP140, MP200





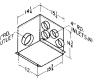
Multi-Port	CFM	Sones	Notes
MP100	110	1.0	Four inlets
MP140	150	1.5	Four inlets
MP200	210	2.0	Four inlets
MP280	290	3.0	Four inlets

 ${\sf HVI}$ rated air flow at 0.2" static pressure. Sound test procedures are similar to ${\sf HVI}$ tests for other exhaust fans.

- 6" round outlet; 4" round inlets (two inlet duct covers included)
- Use 2, 3 or all 4 inlet ports

Model MP280





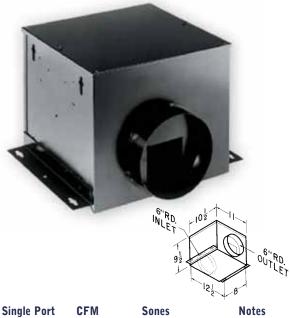
With a multi-port, In-line ventilation solution the blower is mounted away from the living area for virtually silent operation. Multi-port installations allow ventilation of up to four rooms, or use multiple inlet ports to clear the air in larger rooms. Single-port, In-line ventilators provide the same noise reduction benefits.

Specialty Fans and Fan/Lights—In-Line Fans

Single-Port In-Line Ventilators

- Ventilate any room in virtual silence
- 6" round outlet and inlet for easy duct connections (two inlet duct covers)

Model SP100, SP140, SP200



Single Fore		Junes	Notes
SP100	110	1.0	One inlet only
SP140	150	1.5	One inlet only
SP200	210	2.0	One inlet only

 ${\rm HVI}$ rated air flow at 0.2" static pressure. Sound test procedures are similar to ${\rm HVI}$ tests for other exhaust fans.

Room Inlets

- Models available for 6" (CVG6) or 4" (CVG4) round duct
- Install in ceiling or wall
- Paint to match room décor

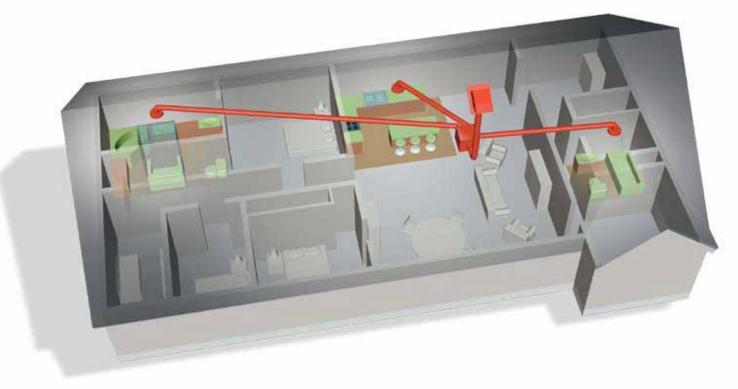
Room Inlet Models CVG4 and CVG6



Grilles/Intakes	Ducting	Notes
CVG4	4 "	Round Grille
CVG6	6"	Round Grille
Sleeves		
CVLD4	4"	Sleeve with damper
CVLD5*	5"	Sleeve with damper
CVLD6	6"	Sleeve with damper
CVL4	4"	Sleeve without damper
CVL6	6"	Sleeve without damper
*Use with CVG4.		

Y Adapters Only

Model	Size	
FY6	6" x 6" x 6"	
FY86	8" x 6" x 6"	



D

Heater/Fan/Lights-QT Series

Broan QT Series Heater/Fan/Lights. You could wait 15 minutes for your central heating system to take the chill from your bathroom, all while it heats every other room in the house. Or, you could select instant heat when it's needed with the QTX line. Powerful heating, light and ventilation are available at the touch of a switch. And with our PowerHeat[™] design, you're assured that the energy converted to heat is efficiently delivered back to you.

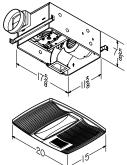
QTX Heater/Fan/Light Features

- Heater/Fan/Light/Night light brings convenient, comforting warmth to your bathroom
- Nearly silent operation 0.9 sone, 110 CFM fan
- Quiet, high-output 1500 watt heater with exclusive
- PowerHeat[™] design (see below)
- 6" ducting for superior performance
- 7 watt night light

QTX Heater/Fan/Light

- Choice of bright 120 watt incandescent (2-60W) or energy efficient 36 watt GU24 fluorescent (2-18W, bulbs included)
- Fan motor is engineered for continuous operation
- HVI Certified
- Type IC
- Requires a dedicated 20 amp circuit
- Fits in 2" x 8" ceiling construction





Model	CFM	Sones	Bath Sq. Ft.	Lighting/ Night Light	Heater Watts
QTX110HL	110	0.9	100	120W Incandescent (2-60W) / 7W	1500
QTX110HFLT	110	0.9	100	36W Fluorescent (2-18W)* / 7W	1500

* Bulbs Included



Heater/Fan/Lights

Broan Directionally-Adjustable Heater/Fan/Lights. You don't need to heat the entire house to have a comfortable bathroom first thing in the morning. And it simply doesn't make sense to wait for your central heating system to do what Broan can do instantly. Our Heater/Fan/Light provides powerful heating, light and ventilation at the touch of a switch. And with our 360° directionally-adjustable heat outlet, you're assured the heat will end up exactly where you need it.

Heater/Fan/Light Features

- Heater/Fan/Light brings convenient, comforting warmth to your bathroom
- Quiet operation 2.0 sone, 100 CFM ventilation fan
- Quiet, high-output 1500-watt heater with exclusive directionally adjustable design (see below)
- 4" ducting for new construction or retrofit
- Multi-function wall switches sold separately

100HL & 100HFL Heater/Fan/Light

- Choice of bright 100-watt incandescent or energy-efficient 27-watt GU24 (bulb included) fluorescent lighting
- Fan motor is engineered for continuous operation
- HVI Certified
- Type IC
- Requires a dedicated 20 amp circuit
- Fits 2" x 6" ceiling construction



* Bulb Included

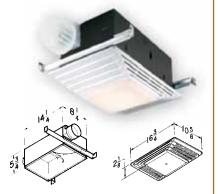


Heater/Fan/Lights

Heaters & Heater Fans

- Designer white polymeric grilles complement virtually any décor
- Two- or three-function wall controls are available separately
- 1300-watt heaters
- Fan, light and heater function independently or together
- Type IC
- Fits 2" x 6" ceiling construction

Model 655, 659, 656



Model 655 • 20-amp circuit required

Model 659

• 15-amp circuit required

Model 656

- 15-amp circuit required
- Heater/Light ONLY



- 15-amp circuit
- acceptable I_4^3

Model	CFM	Sones	Lighting	Ducting	Heater
655	70	4.0	100W	4"	1300W
656	-	-	100W	_	1300W
658	70	4.0	No Light	4"	1300W
659	50	2.5	100W	4"	1300W

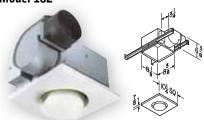
Bulb Heater Fans. Silent warmth and superior ventilation. Trust

Broan Bulb Heater/Fans and Bulb Heaters for energy-saving warmth and instant comfort without ever having to touch your central thermostat. These units deliver superior performance and excellent ventilation in a compact package.

Bulb Heater/Fan Features

- Quiet, highly efficient polymeric blower wheels
- Polymeric dampers prevent backdrafts and eliminate mechanical noise
- Polymeric 4" round duct connectors with tapered sleeves simplify ducting
- Operate fan and heater independently or together
- Attractive white polymeric grilles
- Compact steel housings with adjustable mounting brackets with keyhole slots that span up to 24"
- 250-watt R40 or BR40 size infrared bulbs (not included)
- Type IC, UL Listed for 60°C wiring (retrofits)

Model 162



• One-Bulb Heater/Fan

Model 164



- Two-Bulb Heater/Fan
- Two-function control (available separately)

Model	CFM	Sones	Heat
162	70	3.5	250W*
164	70	3.5	500W*
*			

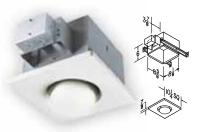
Bulbs not included



One or Two-Bulb Heaters—No Fan

- Infrared bulbs deliver energy-saving warmth
- Get instant comfort in the bathroom without turning up the central thermostat
- 250-watt R40/BR40 size infrared bulbs (not included)
- Attractive, white polymeric grilles
- Compact steel housings
- Adjustable mounting brackets with keyhole slots span up to 24"

Model 161



- One-Bulb Heater
- \bullet UL Listed for 75°C wiring

Model 163



Model	Watts	Volts	Amps
161*	250	120	2.1
163	500	120	4.3
*161 is not	IC rated		

Attic Ventilation - Powered

Attic Ventilation 101

The purpose of ventilating your attic is to equalize temperatures inside with those outside the attic to prevent the build-up of heat and moisture. Without adequate ventilation, air inside your attic can reach 150°F or more during the summer, warming your living area, increasing the load on your air conditioner, and adding to your energy bill. In the winter, ice dams can result from poor ventilation, and moist air from inside the home can condense on attic surfaces causing mildew, rotting wood and wet insulation if not properly ventilated. Year round ventilating of your attic minimizes harmful moisture in the winter and lowers the temperature of your home in the summer. Keeping your attic cool and dry can extend the life of your roof, by preventing rot, premature aging, and damaging shingle distortion that can result from excessive heat. A cool attic in summer also saves you money on your energy bill and extends the life of your air conditioner.

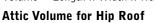
How Much Ventilation Do You Need?

Effective attic ventilation requires air to exit at or near the peak of the roof and replacement air to be drawn in under the eaves of the house, via soffit venting. The Home Ventilating Institute (HVI) recommends that powered attic ventilators provide at least 10 air changes per hour to equalize attic temperature. Below are instructions on how to determine the recommended ventilation needs for your attic, or **try the Attic Ventilation Calculator at broan.com.**

Determine Your Ventilation Needs

1) Calculate the volume of your attic, in cubic feet, depending on the style of your home's roof.

Attic Volume for Gable Roof Volume = Length x Width x Height x 1/2



Volume = Length x Width x Height x 1/3

- Attic Volume x 10 Air Changes per Hour = Total Cubic Feet per Hour of ventilation recommended.
- 3) Total Cubic Feet per Hour ÷ 60 Minutes/Hour = Cubic Feet Per Minute (CFM) of Ventilation Recommended.

Example: Average Gable Attic Volume = $58.75' \times 29' \times 7.25' \times \frac{1}{2} = 6,176$ Cubic Feet 6,176 Cubic Feet x 10 Air Changes/Hour = 61,760 Cubic Feet/Hour ÷ 60 Min./Hour = **1,029 CFM**

4) Replacement air is drawn through vents in your soffit. To determine the minimum soffit vent area required (in square inches) multiply the total CFM of your powered ventilator(s) by 0.48. This number is the total square inches of soffit venting required by your powered ventilator(s).

Example: 1,029 CFM x 0.48 = 494 Square Inches of soffit vent area recommended.

Attic Ventilation Accessories

Model 433 Automatic Shutter for Gable Mount Attic Ventilators

Feature counter-balanced aluminum vanes that automatically open and close when the ventilator turns on and off.

- Better air flow than stationary attic louvers
- Extruded aluminum frame fits flush with outside wall
- Weather-tight closure
- Easy to install



For use with Broan Models 353, 35316, 345G0BK or 345G0WW.

Model DH100W Humidistat

Sold separately for use with all Broan powered attic ventilators. Humidistats automatically turn on the fan when moisture in the attic is detected.



Model 73 High Temperature Cut-off sold separately for use with all Broan powered attic ventilators. High temperature controls automatically turn off the ventilator at 204°F.



Powered Attic Ventilator Specifications

	Roof Mount					Gable Mount	
	Model 349BR	Models 350BR/350BK	Models 355BR/355BK	Models 356BR/356BK	Model 358	Model 353†	Model 35316†
Attic Size	Up to 1400 sq. ft.	Up to 1500 sq. ft.	Up to 1715 sq. ft.	Up to 2285 sq. ft.	Up to 1715 sq. ft.	Up to 1460 sq. ft.	Up to 2285 sq. ft.
Amps	4	3.6	4.3	8.0	4.3	3.4	3.9
CFM*	1000	1050	1200	1600	1200	1020/760**	1600/1160
RPM	1050	1000	1050	1500	1050	1030	1420
Height	9"	8"	8"	8"	8"	-	-
Dome Dia.	24-1/2"	23-1/4"	23-1/4"	23-1/4"	23-1/4"	-	-
Dome Material	Painted Steel	PVC	PVC	PVC	Aluminum	-	-
Dome Color	Dark Brown	Brown/Black	Brown/Black	Brown/Black	Silver	-	-
		١	Wall Control Switch	es: See page 50–51			

† Model 433 Automatic Shutter Accessory sold separately. See page 46. *Exhaust capacity HVI certified @.03* static pressure. **Higher CFM with Model 433 shutter. Lower CFM with standard wood louvre. The Home Ventilating Institute (HVI) recommends 1 sq. ft. of open air inlet per 300 CFM of fan capacity. The best location for these air intake vents is under the eaves with direct access to the attic. Vents for gable installations should be placed at the end of the house opposite the installed ventilator. Failure to provide these intakes could cause natural-draft gas appliances to backdraft.

Determining the CFM* requirements for your attic

Gable Mount					nt			Roof M	ount	
Roof Pit	Model of Pitch 353			Model 35316		Model 349BR	Model 350BR/350BK	Model 355BR/355BK	Model 356BR/356BK	Model 358
		760	1020 CFM**	1160	1600CFM**	1000 CFM	1050 CFM	1200 CFM	1600 CFM	1200 CFM
8/12	Light	1085	1460 sq. ft.	1658	2285 sq. ft.	1490 sq. ft.	1500 sq. ft.	1715 sq. ft.	2285 sq. ft.	1715 sq. ft.
or Less	Dark	950	1275 sq. ft.	1442	1985 sq. ft.	1290 sq. ft.	1304 sq. ft.	1495 sq. ft.	1985 sq. ft.	1495 sq. ft.
9/12	Light	1015	1360 sq. ft.	1549	2135 sq. ft.	1180 sq. ft.	1399 sq. ft.	1600 sq. ft.	2135 sq. ft.	1600 sq. ft.
9/12	Dark	880	1185 sq. ft.	1347	1855 sq. ft.	1200 sq. ft.	1219 sq. ft.	1390 sq. ft.	1855 sq. ft.	1390 sq. ft.
12/12	Light	570	765 sq. ft.	870	200 sq. ft.	782 sq. ft.	790 sq. ft.	900 sq. ft.	1200 sq. ft.	900 sq. ft.
12/12	Dark	500	670 sq. ft.	757	1055 sq. ft.	684 sq. ft.	694 sq. ft.	790 sq. ft.	1055 sq. ft.	790 sq. ft.
15/12	Light	355	385 sq. ft.	559	770 sq. ft.	501 sq. ft.	508 sq. ft.	575 sq. ft.	770 sq. ft.	575 sq. ft.
15/12	Dark	315	425 sq. ft.	486	670 sq. ft	427 sq. ft.	430 sq. ft.	505 sq. ft.	670 sq. ft.	505 sq. ft.



Attic Ventilation-Solar-Powered

Best Ventilation Performance in its Class-537 Max CFM

Solar Panel

Integrated, low profile, 28-watt Solar Panel efficiently captures sunlight from dawn to dusk without the unsightly props or pivoting stands used by some manufacturers. Rugged, tempered glass withstands large hail and resists delaminating.

Housing

Attractive, low profile, molded design, of UV-stabilized, color-dyed, rugged ABS plastic withstands impact from hail and resists fading. May also be painted to match roof color for installation flexibility.

Optional Thermostat-Model CWT45

Easy to install, this optional accessory disables the motor below 50° for climates where cold-weather condensation isn't a concern and to extend motor life. The thermostat activates the motor at temperatures above 61° to vent air from dawn through dusk.

Surface Mount-345SOBK and 345SOWW

For most roofs, our one piece SPAV is the perfect solution. Because our solar cells are highly efficient at capturing the sun's energy, there is no need for unsightly raised panels or tracking systems. Instead, what you see is a low profile ventilator in a contoured design that integrates well with the roof. Available in Black (345SOBK) and Weathered Wood (345SOWW).





Black Model



Curb Mount-345CSOBK and 345CSOWW

Identical in design to the Surface Mount unit but with an added lip for flat, tiled, or unusually steep roof installations. A Curb Mount installation requires the fabrication of a simple curb box frame made from treated 2x4s to create a solid platform and better manage water runoff.

Available in Black (345CSOBK) and Weathered Wood (345CSOWW).





Weathered Wood Model shown with a steep roof installation



Attic Ventilation-Solar-Powered



Visit broan.com for more information.

Motor

Direct-current, variable speed 17 volt motor is dynamically balanced for superior performance and silent operation.

Fan

12" Diameter, one-piece aluminum 5-blade fan pitched for maximum air flow.

Hardware

Stainless steel fasteners secure galvanized steel brackets and aluminum, heavy gauge screen for durability and corrosion resistance. Screen keeps out insects, animals, and birds without impeding airflow.

Ranked Most Attractive Solar Ventilator by home owners more than 2 to 1 over competitive models!

Remote Mount-345RSOBK and 345RSOWW

In some cases, installing the ventilator in a location that is either less visible, more convenient to reach from the roof-side, or more accessible from the attic-side, is desirable. Remote mount enables the ventilator to be installed independent of the solar panel, up to 50' away (15' of wire included). Locate the remote, flat panel to receive the best sunlight exposure and hide the ventilator from view.

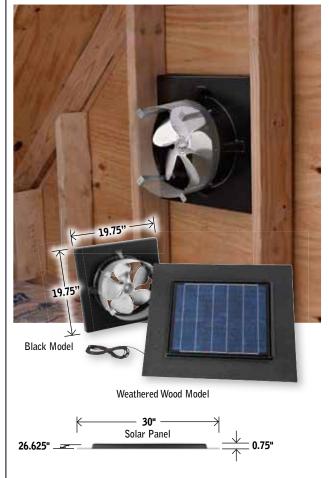
Available in Black (345RSOBK) and Weathered Wood (345RSOWW).



Gable Mount-345GOBK and 345GOWW

If roof mounting is not possible or desired, gable installation provides the benefits of the SPAV with a remote-mounted, flat solar panel positioned to best capture the sun's energy, up to 50' away (15' of wire included). Finish the outside with a Broan model 433 gable shutter.

Available in Black (345GOBK) and Weathered Wood (345GOWW).





Indicator Light Controls Model 69WL

- Single-Function Controls
- Ideal for use with guiet models, or Remote In-Line Ventilators
- 120V, 20 amps
- Red light lets you know power is on
- Blister packs (P69WL, P69VL)

Model 269WL, 269VL

- Two-Function Controls
- · For use especially with quiet models and an auxiliary light source
- Lighted fan control 120V, 20 amps; unlighted 120/240/277V, 15 amps
- · Fits two-gang box
- Controls available in White (W) or Ivory (V)

Model 685WL, 685VL

- Three-Function Controls
- · For use especially with quiet models • Lighted fan control 120V, 20 amps;
- two additional on/off rocker switches 120V, 15 amps each (20 amps total)
- Fits two-gang box
- Blister packs (P685WL, P685VL)
- Controls available in White (W) or Ivory (V)

Thermostat and Dehumidstat Controls Model 70TW

- Thermostat for any fan
- 120, 250, 277 VAC,
- 22 amp capacity

Model DH100W

- Dehumidistat
- Dual voltage (24V/120V)
- Variable setting from 20-80% relative humidity
- · Usage guide included



67W,67V

- Three-Function Controls
- Three independent, 120V,15 amp rocker switches (20 amps total)
- · Fits single-gang opening
- Blister packs available (P65W, P65V, P66W, P66V, P67W, P67V)
- Controls available in White (W) or Ivory (V)
- Wall plates available in: Polished brass finish (65W, 65V); White (66W) or Ivory (66V); Polished chrome finish (67W, 67V)

Model 68W, 68V

- Two-Function Controls
- Two independent, 120V, 15 amp rocker switches(20 amps total)
- Fits single-gang box
- Blister packs available (P68W, P68V)
- Controls available in White (W) or

Ivory (V)

Model 69W

- Single-Function Controls
- 120V, 15 amps

Model 77DW, 77DV

- Four-Function Controls
- Single switch provides three settings for fan sensor(On-Auto-Off) on Sensing models
- Remaining switches for light/night light
- Works with QTX110HL heater/fan/light/night light
- Controls available in White (W) or Ivory (V)
- Fits single-gang opening
- Blister packs available (P77DW)





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Wall Controls

Speed Controls

Model 57W, 57V (3-amp)

- 120V, 3 amps
- Fits single-gang box
- Positive on/off action-dial for variable selection of air speeds and sound levels
- Built-in radio noise suppressor • Controls available in White (W)
- or Ivory (V)
- Blister packs available (P57W)

Model 72W, 72V (6-amp)

- 120V, 6 amps-Models 72W, 72V
- Fits single-gang box
- Positive on/off action-dial for variable selection of air speeds and sound levels
- Built-in radio noise suppressor
- Controls available in White (W) or Ivory (V)

Model 78W, 78V

- 4-speed "no-hum" ceiling fan speed control
- Decorator wall plate
- Screws included
- 120V AC 1.5 amp
- Controls available in White (W) or Ivory (V)

Model T24H

- 24-Hour Programmable Timer
- 120V, 8 amps
- Sets up to 36 on/off cycles as short as 20 minutes
- Manual on/off override switch
- Fits single-gang box

Timer and Off-Delay Controls

Model 59W, 59V, 71V

- Model 59W, 59V—up to 60 minutes
- Model 71V—up to 12 hours
- Fits single-gang box
- 120V, 20 amps;
- 240V, 10 amps
- Operate continuously or for any set period
- Controls available in White (W) or Ivory (V)
- Blister packs available (P59W, P59V)

Model 61W. 61V

• 15 Minute

- Operate for any set period up to 15 minutes (no "continuous on" position)
- Fits single-gang box
- 120V, 20 amps; 240V, 10 amps
- Operate continuously or for any set period
- Controls available in White (W) or Ivory (V)

Model 62W, 62V

• 60 Minute

- Two separate 120V, 15 amp on/off rocker switches (20 amps total)
- 120V, 20 amps or 240V, 10 amp timer
- Timer operates continuously or for
- any set period up to 60 minutes
- Fits two-gang box
- Controls available in White (W) or Ivory (V)

Model 63W, 63V

- 60 Minute
- Separate 120V, 15 amp on/off rocker switch
- Timer operates continuously or for any set period up to 60 minutes
- Fits two-gang box
- Controls available in White (W) or Ivory (V)

Model 64W, 64V

- Fan/Light Control with Off-Delay
- Fan and light operate together when control is turned on
- Fan continues to operate for a user adjustable time period 5-60 minutes after light is turned off
- Center position bypasses timer and turns fan and light off immediately
- Fits single-gang box
- 120V, 4 amps (fan), 4 amps (light)
- Requires hot and neutral wires in the switch box
- Controls available in White (W) or Ivory (V)













Wall Control Selection Guide

		57W 57V	59W 59V	61W 61V	62W 62V	63W 63V	64W 64V	65W 65V	66W 66V	67W 67V	68W 68V	69W	69WL 69VL	70TW	71V	72W 72V	73	77DW 77DV	78W 78V	269WL 269VL	685WL 685VL	DH 100W	Т24Н
	120		•	•			•					•	•	•	•	•			•			•	•
Utility	502	•	•	•			•					•	•	•	•	•			•			•	•
Fans	503	•	•	•			•					•	•	•	•	•			•			•	•
	504	•	•	•			•					•	•	•	•	•			•			•	•
	505	•	•	•			•					•	•	•	•	•			•			•	•
	506 & 507	chain operated																					
	508	•	•	•			•					•	•	•	•	•			•			•	•
	509	•	•	•								•	•	•		•			•			•	
	509S ¹		•	•			•							•	•				•			•	•
	510 ²		•	•			•							•	•				•			•	•
	511 ²													•					•				
	512 & 512M	•	•	•								•	•	•	•	•			•			•	•
	673		•	•			•					•	•	•	•				•			•	•
	670	•	•	•			•					•	•	•	•	•			•			•	•
Ventilation Fans	671	•	•	•			•					•	•	•	•	•			•			•	•
r ai is	676	•	•	•			•					•	•	•	•	•			•			•	•
	682	•	•	•			•					•	•	•	•	•			•			•	•
	684	•	•	•			•					•	•	•	•	•			•			•	•
	688	•	•	•			•					•	•	•	•	•			•			•	•
	689	•	•	•			•					•	•	•	•	•			•			•	•
	690	•	•	•			•					•	•	•	•	•			•			•	•
	770	•	•	•			•					•	•	•	•	•			•			•	•
	784	•	•	•			•					•	•	•	•	•			•			•	•
								•	•	•													
	HD50	•	•	•			•	•	•	•		•	•	•	•	•			•			•	•
	HD80	•	•	•			•					•	•	•	•	•			•			•	•
	LP80	•	•	•			•					•	•	•	•	•			•			•	•
	QT Fans	•	•	•		•	•				•	•	•	•	•	•			•	•		•	•
	QTXE100S										•	•	•										
	QTXE110S										•	•	•										
	XB50											•	•							•			
	XB80											•	•							•			
	XB110											•	•							•			
	XB110H										•	•	•							•			
	ZB80										•									•	•		
	ZB80M										•	•	•							•			
	ZB110										•									•	•		
	ZB110H										•	•	•							•			
	ZB110M										•	•	•							•			
Ventilation	657	•	•	•		•	•				•			•	•	•						•	•
Fan/Lights	678	•	•	•		•	•				•			•	•	•						•	•
	679	•	•	•		•	•				•			•	•	•						•	•
	680	•	•	•		•	•				•			•	•	•						•	•
	696	•	•	•		•	•				•			•	•	•						•	•
	741SN 741WH	•	•	•		•	•				•			•	•	•						•	•
	744					•					٠			•								•	
	744FL					•					•			•								•	
	744LED					•					٠			•								•	
	744SFL					•		•	•	•	•			•								•	
	750	•	•	•	•		•	•	•	•	٠			•	•	•				•	•	•	•
	751	•	•	•		•	•				•			•	•	•				•		•	•
	754RB, 754SN	•	•	•		•	•				٠			•	•	•				•		•	•
52	757SN	•	•	•		•	•				•			•	•	•				•		•	•
	Duilt in an faff and	- la 2 D																					

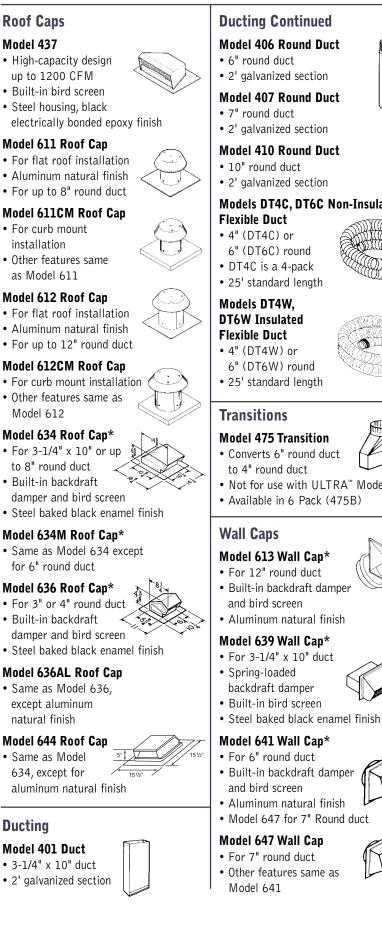
¹Built-in on/off switch. ²Built-in on/off variable switch.

Wall Control Selection Guide

		57W 57V	59W 59V	61W 61V	62W 62V	63W 63V	64W 64V	65W 65V	66W 66V	67W 67V	68W 68V	69W	69WL 69VL	70TW	71V	72W 72V	73	77DW 77DV	78W 78V	269WL 269VL	685WL 685VL	DH 100W	T24H
	761BN, 761RB, 761WHA	•	•	•		•	•				•			•	•	•						•	•
Ventilation	764BN, 764RB, 764WH	•	•	•		•	•				•			•	•	•						•	•
Fans &	766BN, 766RB	•	•	•		•	•				•			•	•	•						•	•
Fan/Lights	778WH	•	•	•		•	•				•			•	•	•						•	•
	HD50L	•	•	•		•	•				•			•	•	•				•		•	•
	HD80L	•	•	•		•	•				•			•	•	•				•		•	•
	QT Fan/Lights		•	•	•	•	•		•					•	•	•					•	•	•
	QT Sensing Fan/Lights							•	•	•								•					
	XB50L							•	•	•											•		
	XB80L							•	•	•											•		
	XB110L							•	•	•											•		
	XB110HL							•	•	•								•					
	ZB80L																	•					
	ZB80ML																	•					
	ZB110L																	•					
	ZB110HL							•	•	•								•					
	ZB110ML																	•					
Heater/Fan/	100HL	•	•	•	•			•	•	•				•	•	•						•	•
Lights	100HFL	•	•	•	•			•	•	•				•	•	•						•	•
	161		•	•			•						•									•	•
	162	•	•	•		•	•				•			•	•	•				•		•	•
	163		•	•		•						•	•									•	•
	164	•	•	•	•	•		•	•	•	•			•	•	•				•	•	•	•
	655	•	•	•	•			•	•	•				•	•	•				•	•	•	•
	656		•	•		•								•	•							•	•
	658	•	•	•		•					•			•	•	•				•		•	•
	659	•	•	•	•			•	•	•				•	•	•				•	•	•	•
	QTX110HL	•	•	•	•			•	•	•				•	•	•		•				•	•
	QTX110HFL	•	•	•	•			•	•	•				•	•	•		•				•	•
To Line	MP100, MP140 MP200	•	•	•								•	•	•	•	•						•	•
In-Line	MP280	•	•	•								•	•	•	•	•						•	•
	SP100, SP140 SP200	•	•	•								•	•	•	•	•						•	•
A ((* .	349BR		•	•								•	•	•	•	•	•					•	•
Attic Ventilation	350BK		•	•								•	•	•	•	•	•					•	•
	350BR		•	•								•	•	•	•	•	•					•	•
	353		•	•								•	•	•	•	•	•					•	•
	35316		•	•								•	•	•	•	•	•					•	•
	355BK		•	•								•	•	•	•	•	•					•	•
	355BR		•	•								•	•	•	•	•	•					•	•
	356BK		•	•								•	•	•	•	-	•					•	
	356BR		•	•								•	•	•	•		•					•	
	358		•	•								•	•	•	•	•	•					•	•
	¹ Built in on/off suit											•			•		•						53

 $`{\sf Built-in}$ on/off switch. $`{\sf Built-in}$ on/off variable switch.

Ducting Accessories



- 2' galvanized section
- Model 407 Round Duct
- 2' galvanized section

Model 410 Round Duct

2' galvanized section

Models DT4C, DT6C Non-Insulated

Model 475 Transition

- Converts 6" round duct
- Not for use with ULTRA[™] Models
- Available in 6 Pack (475B)

- For 12" round duct • Built-in backdraft damper
- Aluminum natural finish

- For 3-1/4" x 10" duct

- Aluminum natural finish
- Model 647 for 7" Round duct

Model 647 Wall Cap

• Other features same as

Wall Caps Continued

Model 649 Wall Cap

• Same as Model 639, except aluminum natural finish

Model 843BL*

- For 6" round duct Built-in backdraft damper and bird screen
- Black finish

Model 885BL Wall Cap*

- For 3" or 4" round duct
- 4" to 3" transition included
- · Steel baked black enamel finish
- Standard package—6 to a carton
- · Built-in bird screen and damper

Model 885AL Wall Cap*

- For 3" or 4" round duct
- 4" to 3" transition included
- · Aluminum natural finish
- Standard package-4 to a carton
- Built in bird screen and damper

Model 643 Wall Cap

• For 8" round duct · Aluminum natural finish

Model 645 Louvered

- Wall Cap for 3" Round Duct
- White polymeric
- 6 to a carton

Model 646 Louvered Wall Cap for 6" Round Duct

- Single pack
- White polymeric

Model WC650 Wall Cap

- For 4" round duct
- White polymeric
- 4 to a carton











61/2

61/2











Ducting Accessories

Ducting Kits

Model RVK1A **Flexible Roof Ducting Kit**

- Includes Model 636 Roof Cap
- 4" diameter metal duct connector
- 2 duct clamps
- 4" to 3" reducer
- 8' of 4" flexible aluminum ducting

Model WVK2A*

• 4" diameter metal

duct connector

• 2 duct clamps

• 4" to 3" reducer

• 5' of 4" flexible

aluminum ducting

wall cap

Flexible Wall Ducting Kit

• Includes white polymeric



• Fits Utility Ventilator

Filters

Models 503, 503MG, 505, 505MG, 509, 509MG, 509S and 509SMG

Model 99010271 Aluminum Filter

Model 99010042 Aluminum Filter

• Fits Utility Ventilator Models 12C, 12CMG, 502, 502MG, 504, 504MG, 508, 508MG, 510, 510MG, 511 and 511MG

Metal Grille Kit

Model 97011308

- Steel baked white enamel finish
- Fits fan Models 670, 671, 676, 684, 688 and 689
- Grille size is 10-1/4" square

Elbows

Model 415 Adjustable Elbow • Fits 7" round duct

Model 418 Adjustable Elbow • Fits 10" round duct

Model 419 Adjustable Elbow • Fits 6" round duct

Model 428 Vertical Elbow • Fits 3-1/4" x 10" duct



Model 429 **Horizontal Elbow**

• Fits 3-1/4" x 10" duct

Model 430 Short Eave Elbow

• For 3-1/4" x 10" duct Includes backdraft damper and grille



• Only recommended for fans with more than 160 CFM

Model 431 Long Eave Elbow

- For 3-1/4" x 10" duct
- Includes backdraft
- damper and grille
- Only recommended for fans with more than 160 CFM



Specifications

Fans

	Deve	CEM	Sones, HVI-	Baths	ENERGY	Duct		Housing Di	ms	Grille	Dims	Cuillo finich	
Model	Page	CFM	HV1- certified	up to () Sq Ft	STAR [®]	Size"	L"	W"	H"	Ľ	W"	Grille finish	Amps
BORDF**	30	80	2.5	75	_	4	8	8 ¹ /4	5 ³ ⁄4	10 ¹ /4	10 ¹ /4	White Acrylic Metal	0.6
110RDF**	30	110	4.0	105	_	4	8	81/4	53/4	101/4	101/4	White Acrylic Metal	0.6
670	29	50	3.5	45	_	3	7¼	7½	3%	9	9¼	White Polymeric	0.8
671	29	70	6.0	65	_	3	7¼	7½	3%	9	91/4	White Polymeric	1.2
676	29	110	4.0	100	_	4	8	8¼	5¾	10%	11%	White Polymeric	1.3
682	31	_	_	_	_	Duct-free	7%	7%	3¾	81/2	81/2	White Polymeric	1.0
684	29	80	2.5	75	_	4	8	8¼	5¾	10%	111%	White Polymeric	0.5
688	29	50	4.0	45	_	3	7¼	7½	3%	9	9¼	White Polymeric	0.9
689	29	60	5.5	55	_	3	7¼	7½	3%	9	9¼	White Polymeric	1.5
690*	31	60	3.0	55	_	_	_	_	_	9%	111%	White Polymeric	1.5
770	28	50	1.5	45	Yes	4	8	8¼	5¾	10%	11%	White Polymeric	0.2
784	28	80	2.0	75	Yes	4	8	8¼	5¾	10%	11%	White Polymeric	0.5
HD50	30	50	1.5	45	Yes	4	8	8¼	5¾	10%	10¼	White Painted Metal	0.4
HD50RDF**	30	50	1.5	45	Yes	4	8	8 ¹ /4	53/4	101/4	101/4	White Acrylic Metal	0.4
HD80	30	80	2.5	75	_	4	8	8¼	5¾	10%	101/4	White Painted Metal	0.6
HD80RDF**	30	80	2.5	75	_	4	8	81/4	53/4	101/4	101/4	White Acrylic Metal	0.6
LP80	28	80	1.1	75	Yes	4/3	11%	10½	4	13	14	White Polymeric	0.3
SSQTXE080	24	80		_	Yes	_	11%	10%	73⁄4		_	_	
SSQTXE110	24	110	_	_	Yes	_	11%	10½	73/4	_	_	_	_
QTXE050	20	50	<0.3	45	Yes	6	11%	101/2	7%	13	14	White Polymeric	0.3
QTXE080	20	80	0.3	75	Yes	6	11%	101/2	7%	13	14	White Polymeric	0.4
QTXE110	20	110	0.7	100	Yes	6	11%	101/2	7%	13	14	White Polymeric	0.3
QTXE110S	22	110	0.7	100	Yes	6	11%	101/2	7%	12%	133/4	White Polymeric	0.3
QTXE150	20	150	1.4	140	Yes	6	11%	101/2	7%	13	14	White Polymeric	0.5
QTRE100S	22	100	1.5	90	Yes	4	11%	101/2	7%	12%	133/4	White Polymeric	0.3
QTRE080	20	80	0.8	75	Yes	4	11%	101/2	7%	13	14	White Polymeric	0.4
QTRE080C2S	20	80/40	0.8/<0.3	75	Yes	4	11%	101/2	7%	13	14	White Polymeric	0.3
QTRE080R	23	80	0.8	75	Yes	4	11%	101/2	7%	13	14	White Polymeric	0.3
QTRE110	20	110	1.3	100	Yes	4	11%	101/2	7%	13	14	White Polymeric	0.3
QTR080	20	80	1.0	75	_	4	11%	101/2	7%	13	14	White Polymeric	0.7
QTR110	20	110	1.5	100	_	4	11%	101/2	7%	13	14	White Polymeric	0.9
XB50	17	50	<0.3	45	Yes	6/4	10½	11%	7%	13	14	White Polymeric	0.1
XB80	17	80	<0.3	75	Yes	6/4	10½	11%	7%	13	14	White Polymeric	0.1
XB110	17	110	<0.3	100	Yes	6	10½	11%	7%	13	14	White Polymeric	0.1
XB110 XB110H	17	110	<0.3	100	Yes	6	10½	11%	7 %	13%	14	White Polymeric	0.2
ZB80	17	80	<0.3	75	Yes	6/4	10½	11%	7%	13	14	White Polymeric	0.2
ZB80M	17	80	<0.3	75	Yes	6/4	10%	11%	7 %	13%	14	White Polymeric	0.1
ZB110	17	110	<0.3	100	Yes	6	10½	11%	7 %	13%	14	White Polymeric	0.1
ZB110 ZB110H	17	110	<0.3	100	Yes	6	10%	11%	7 %	13%	14	White Polymeric	0.2
	17	110	<0.3	100	Yes	6	10½	11%	7 %	13%	14		0.2
ZB110M	1/	110	د.0>	100	res	o	10%	11./8	1 78	13%	14	White Polymeric	0.2

Radiation Dampers can be found on page 30. *Replacement grille and motor kit. **Model RDA fan housing only sold separately for radiation dampers/fans.

Utility Fans

				Housing Dimensions					
				Hou	sing Dimens	ions	Grille Dimensions		
Model	Page	CFM	Sones	L"	W"	H"	L" W"	Amps	Duct Size
12C	39	360	8.0	-	11½ Sq	—	13½ Sq	1.7	Direct Discharge
502	38	270	8.0	16¾	13%	3¼	13½ Sq	1.7	3¼" x 10"
503	38	160	5.0	14	12	3¼	11½ Sq	1.5	3¼" x 10"
504	39	350	6.5	-	10¼ Rd	7	13½ Sq	1.7	10"
505	39	180	6.5	-	8¼ Rd	7	11½ Sq	1.5	8"
506	38	470	8.0	-	10% Rd	_	13½ Sq	1.7	Direct Discharge
507	38	250	7.0	-	8¾ Rd	_	11½ Sq	1.5	Direct Discharge
508	39	270	6.0	-	10% Rd	_	13½ Sq	1.7	Direct Discharge
509	39	180	6.5	-	8¾ Rd	_	13½ Sq	1.5	Direct Discharge
509S	39	180	6.5	-	8¾ Rd	_	13½ Sq	1.5	Direct Discharge
510	38	380	6.5	-	11½ Sq	_	13½ Sq	1.7	Room to room wall far
511	38	180	4.5	-	11½ Sq	_	13½ Sq	0.9	Room to room wall far
512	39	90	3.5	-	6 Rd	-	8 Dia	0.7	Room to room wall far
512M	39	70	3.5	-	6 Rd	_	8 Dia	0.7	Direct Discharge
673	39	60	4.5	-	6¼ Rd	5¼	8 Dia	1.0	6"

Specifications

Fan/Lights

	Page	CFM	Sones, HVI-	Baths up to	Lighting Watts Main/	ENERGY	Fluorescent	Duct	Ho	using Di	ns	Grille I	Dims	Grille finish	
Model	Paye	GLIM	certified	() Sq Ft	Night Light	STAR®	Lighting	Size"	L"	W"	Н"	L"	W"	Grille Timsn	Amps
657	29	70	4.0	65	100	_	-	4	14¼	8¼	5¾	16¾	10%	White Polymeric	2.0
678	29	50	2.5	45	100	_	_	4	8¼	8	5¾	11%	10%	White Polymeric	1.6
679	29	70	3.5	65	100	_	_	4	8¼	8	5¾	111%	10%	White Polymeric	2.0
680	29	100	4.0	90	100	_	_	4	8¼	8	5¾	11%	10%	White Polymeric	2.2
696	29	100	4.5	90	100	_	_	4	14¼	8¼	5¾	16¾	105/8	White Polymeric	2.0
741SN	36	70	3.5	65	120 (2-60W)	_	_	4	8¼	8	5¾	13% Dia	_	Satin Nickel	2.2
741WH	36	70	3.5	65	120 (2-60W)	_	_	4	8¼	8	5¾	13% Dia	_	White	2.2
744	35	70	1.5	65	75	_	_	4	8¼	12¾	6¾	7¾ Dia	_	Matte White	1.2
744FL	35	70	1.5	65	14	Yes	Yes	4	8¼	12¾	6¾	7¾ Dia	_	Matte White	0.7
744LED	35	70	1.5	65	14W LED	Yes	_	4	8¼	12¾	6¾	7¾ Dia	_	Matte White	0.55
744SFL	35	70	1.5	65	14	Yes	Yes	4	8¼	12¾	6¾	7¾ Dia	—	Matte White	0.7
750	29	100	3.5	90	100/7	_	_	4	9	9	6	15 Dia	_	White Polymeric	1.9
751	29	100	3.5	90	100	_	_	4	9	9	6	15 Dia	_	White Polymeric	1.9
754RB	37	70	3.5	65	120 (2-60W)	_	_	4	8¼	8	5¾	13½ Dia	_	Oil-rubbed Bronze	2.2
754SN	37	70	3.5	65	120 (2-60W)	_	-	4	8¼	8	5¾	13½ Dia	_	Nickel	2.2
757SN	37	80	2.5	75	120 (2-60W)	_	_	4	8¼	8	5¾	13¼ Dia	_	Satin Nickel	1.6
761BN	36	80	2.5	75	120 (2-60W)	-	-	4	8¼	8	5¾	13¾ Dia	_	Brushed Nickel	1.6
761RB	36	80	2.5	75	120 (2-60W)	_	-	4	8¼	8	5¾	13% Dia	_	Oil-rubbed Bronze	1.6
761WHA	36	80	2.5	75	120 (2-60W)	_	-	4	8¼	8	5¾	13% Dia	_	White	1.6
764BN	37	80	2.5	75	120 (2-60W)	_	_	4	8¼	8	5¾	13½ Dia	_	Brushed Nickel	1.6
764RB	37	80	2.5	75	120 (2-60W)	_	_	4	8¼	8	5¾	13¼ Dia	_	Oil-rubbed Bronze	1.6
764WH	37	80	2.5	75	120 (2-60W)	_	_	4	8¼	8	5¾	13¼ Dia	_	White	1.6
766BN	36	80	2.5	75	120 (2-60W)	_	-	4	8¼	8	5¾	13% Dia	_	Brushed Nickel	1.6
766RB	36	80	2.5	75	120 (2-60W)	_	-	4	8¼	8	5¾	13¾ Dia	-	Oil-rubbed Bronze	1.6
778WH	28	80	2.0	75	2-13W GU24	Yes	Yes	4	8¼	8	5¾	13¼ Dia	_	White	0.5
HD50L	30	50	1.5	45	100	_	-	4	8	8¼	5¾	10¼	10¼	White Polymeric	0.4
HD80L	30	80	2.5	75	100	—	_	4	8	8¼	5¾	10¼	10¼	White Polymeric	0.6
QTR080L	21	80	1.0	75	100/4	_	-	4	11¾	101/2	7%	12%	14	White Polymeric	1.6
QTR110L	21	110	1.5	100	100/4	—	_	4	11¾	101/2	7%	12%	14	White Polymeric	1.8
QTRE080FLT	21	80	0.8	75	2-18W fluor/4	Yes	Yes	4	11¾	101/2	7%	12%	14	White Polymeric	1.0
QTRE110FLT	21	110	1.3	100	2-18W fluor/4	Yes	Yes	4	11¾	101/2	7%	12%	14	White Polymeric	1.0
QTX110SL	22	110	0.9	100	100/4	_	-	6	11¾	101/2	7%	13	13¾	White Polymeric	0.3
QTXE080FLT	21	80	0.3	75	2-18W fluor/4	Yes	Yes	6	11¾	101/2	7%	13%	14¼	White Polymeric	1.0
QTXE110FLT	21	110	0.7	100	2-18W fluor/4	Yes	Yes	6	11¾	101/2	7%	13%	14¼	White Polymeric	1.0
QTXE110SFLT	22	110	0.7	100	2-18W fluor/4	Yes	Yes	6	11¾	101/2	71%	121/8	13¾	White Polymeric	0.3
QTXE150FLT	21	150	1.4	140	2-18W fluor/4	Yes	Yes	6	11¾	101/2	7%	13%	14¼	White Polymeric	1.2
XB50L	17	50	<0.3	45	2-18W fluor/4	Yes	Yes	6/4	10½	11%	7%	13	13¾	White Polymeric	0.7
XB80L	17	80	<0.3	75	2-18W fluor/4	Yes	Yes	6/4	10½	11%	7%	13	13¾	White Polymeric	0.7
XB110L	17	110	<0.3	100	2-18W fluor/4	Yes	Yes	6	10½	11%	7%	13	13¾	White Polymeric	0.9
XB110HL	17	110	<0.3	100	2-18W fluor/4	Yes	Yes	6	10½	11%	7%	13%	14	White Polymeric	0.9
ZB80L	17	80	<0.3	75	2-18W fluor/4	Yes	Yes	6/4	10½	11¾	7⅔	13	13¾	White Polymeric	0.8
ZB80ML	17	80	<0.3	75	2-18W fluor/4	Yes	Yes	6/4	10½	11%	7%	131⁄8	14	White Polymeric	0.8
ZB110L	17	110	<0.3	100	2-18W fluor/4	Yes	Yes	6	10½	11%	7%	13	13¾	White Polymeric	0.9
ZB110HL	17	110	<0.3	100	2-18W fluor/4	Yes	Yes	6	10½	11%	7%	131⁄8	14	White Polymeric	0.9
															· · · · · · · · · · · · · · · · · · ·

In-Line Ventilators

			0.2" Ps	H	ousing Dimensio	ns		
Model	Page	CFM	Sones	L"	W"	H"	Amps	Duct Size
MP100	40	110	1.0	11	10½	9½	0.5	4 - 4" Rd Inlets, 6" Rd Outlet
MP140	40	150	1.5	11	10½	9½	0.8	4 - 4" Rd Inlets, 6" Rd Outlet
MP200	40	210	2.0	11	10½	9½	1.3	4 - 4" Rd Inlets, 6" Rd Outlet
MP280	40	290	3.0	15¼	14¼	14¾	2.5	4 - 4" Rd Inlets, 6" Rd Outlet
SP100	41	110	1.0	11	10½	9½	0.5	6" Rd Inlet and Outlet
SP140	41	150	1.5	11	10½	9½	0.8	6" Rd Inlet and Outlet
SP200	41	210	2.0	11	10½	9½	1.3	6" Rd Inlet and Outlet

Specifications

Heater/Fan/Lights

			Sones,	Lighting							Т	otal Conne			
Model	Page	CFM	HVI Certified	Watts Main/ Night Light	Di L"	mensio W"	ns H"	Dimei L"	nsions W"	Grille Finish	Duct Size"	Amps	Load In Watts	Heater Wattage	BTU
QTX110HL	43	110	0.9	120W/7W	17%	11%	7%	20	15	White Polymeric	6	14.6	1710	1500	5120
QTX110HFLT	43	110	0.9	36W Fluor. (GU24 Incl.)/7W	17%	11%	7%	20	15	White Polymeric	6	13.9	1626	1500	5120
100HL	44	100	2.0	100W	16	10¼	5%	17½	11½	White Polymeric	4	14.5	1830	1500	5120
100HFL	44	100	2.0	27W Fluor. (Incl.)	16	10¼	5%	17½	11½	White Polymeric	4	14.0	1760	1500	5120
162	45	70	3.5	*250W (1)	81%	8¾	6¾	10¼	10¼	White Polymeric	4	2.5	300	250*	853
164	45	70	3.5	*250W (2)	14¼	8¾	6¾	15%	10¼	White Polymeric	4	4.5	545	500*	1707
655	45	70	4.0	100W	14¼	8¼	5¾	16¾	10%	White Polymeric	4	12.8	1545	1300	4437
656	45	_	_	100W	14¼	8¼	5¾	16¾	10%	White Polymeric	_	11.9	1448	1300	4437
658	45	70	4.0	n/a	14¼	8¼	5¾	16¾	10%	White Polymeric	4	11.9	1448	1300	4437
659	45	50	2.5	100W	14¼	8¼	5¾	16¾	10%	White Polymeric	4	12.0	1472	1300	4437

Bulb Heaters*

		Heater				Ho	using Dimens	sions	Grille Di	mensions	
Model	Page	Wattage	Volts	Amps	BTU/hr	W"	H"	D "	W"	H"	Grille Finish
161	45	250	120	2.1	853	8¾	6¾	81⁄8	10¼	10¼	White Polymeric
163	45	500	120	4.3	1707	14¼	6%	8%	15%	10¼	White Polymeric

Powered Attic Ventilators, Gable and Roof Mount

_			Hor	using Dimensions						
Model	Page	Description	L"	W"	H"	CFM	Sones	Amps	Dome Color	Dome Material
349BR	47	PAV-Roof Mount	22¼ Sq	24½ Dia Dome	9	1000	n/a	4	Dark Brown	Metal
350BK	47	PAV-Roof Mount	22¼ Sq	23¼ Dia Dome	8	1050	n/a	3.6	Black	PVC
350BR	47	PAV-Roof Mount	22¼ Sq	23¼ Dia Dome	8	1050	n/a	3.6	Brown	PVC
353	47	PAV–Gable Mount	15 Dia	_	8	1020	n/a	3.4	_	_
35316	47	PAV–Gable Mount	15 Dia	_	8	1600	n/a	3.9	_	_
355BK	47	PAV-Roof Mount	22¼ Sq	23¼ Dia Dome	8	1200	n/a	4.3	Black	PVC
355BR	47	PAV-Roof Mount	22¼ Sq	23¼ Dia Dome	8	1200	n/a	4.3	Brown	PVC
356BK	47	PAV-Roof Mount	22¼ Sq	23¼ Dia Dome	8	1600	n/a	8	Black	PVC
356BR	47	PAV-Roof Mount	22¼ Sq	23¼ Dia Dome	8	1600	n/a	8	Brown	PVC
358	47	PAV-Roof Mount	22¼ Sq	23¼ Dia Dome	8	1200	n/a	4.3	Silver	Metal

Solar-Powered Attic Ventilators—Surface, Curb, Remote and Gable

				Housing	Solar Panel		Dome/Panel Dimensions (inches)			
Model*	Page	Mount	Color	Material*	Power Output	Pieces	Height"	Width"	Length"	
345CS0BK	48	Curb	Black	ABS Plastic	28 Watts	1 pc	11	29.875	26.625	
345CS0WW	48	Curb	Weathered Wood	ABS Plastic	28 Watts	1 pc	11	29.875	26.625	
345G0BK	49	Gable	Black	ABS Plastic	28 Watts	2 pcs	.75 / 11	30 / 19.75	26.625 / 19.75	
345G0WW	49	Gable	Weathered Wood	ABS Plastic	28 Watts	2 pcs	.75 / 11	30 / 19.75	26.625 / 19.75	
345RSOBK	49	Remote	Black	ABS Plastic	28 Watts	2 pcs	.75 / 9	30 / 29.875	26.625 / 26.625	
345RSOWW	49	Remote	Weathered Wood	ABS Plastic	28 Watts	2 pcs	.75 / 9	30 / 29.875	26.625 / 26.625	
345S0BK	48	Surface	Black	ABS Plastic	28 Watts	1 pc	9	29.875	26.625	
345SOWW	48	Surface	Weathered Wood	ABS Plastic	28 Watts	1 pc	9	29.875	26.625	

*All UV-enhanced ABS plastic housings may be painted to match roof color.





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