

Designed and built to meet LEED Platinum Standard and the Net Zero

Saves Energy through ground source heat pump and Delta's solutions

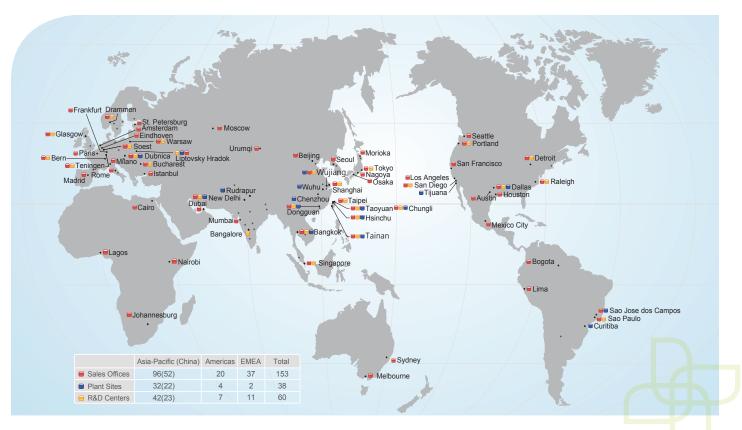
Generates energy through Solar Power System

Increase power usage efficiency through energy management

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Why Delta

Smarter. Greener. Together.

Delta's Mission

Our company mission is "To provide innovative, clean and energy efficient solutions for a better tomorrow" supported by a product portfolio that features a range of energy efficiency solutions including ventilation fans, industrial automation products, solar inverters, LED lighting, EV chargers, power supplies and LED display solutions. Delta's operations are ISO-9001, ISO-14001, ISO-14064, OHSAS-18001 and TS-16949 certified.

The World's Leading Provider of Brushless DC Motor Fans

Delta Group is the world's largest manufacturer of brushless DC fans and a leading provider of switching power supplies – a \$7.5 billion global company with 38 manufacturing facilities, 60 R&D labs and U.S. headquarters in Fremont, CA.

Dedicated to improving the environment

From 2010 to 2015, Delta's high efficiency products saved 6.4M tons of CO_2 for our customers. Among its many energy-saving products, Delta has developed the world's first server power supply to achieve 80 Plus Titanium energy efficiency, which is greater than 96% efficiency.

Delta will continue its dedication to developing technologies and solutions to help ensure a sustainable future.

When Precision is Paramount

Delta brushless DC fans are used in applications where precision is paramount. This includes popular consumer electronics products such as laptops, desktops PC's, tablets and gaming consoles. Please visit our global website www.deltaww.com for a more comprehensive look at Delta operations, products and capabilities.

Please visit our global website **www.deltaww.com** for a more comprehensive look at Delta operations, products and company profile.

Why is Ventilation Important?

Many of today's homes are airtight and highly insulated, which is good for cost and energy-effective temperature control, but presents a challenge for indoor air quality. Without adequate exhausting of air to the outside, the concentration of pollutants indoors is often many times higher than that of the outdoors.

Air Pollution Inside the House

Sources of indoor air pollutants are found throughout a home, including combustion sources, building materials, cleaning products and biological pollutants such as mold, mildew, bacteria and pollen. These pollutants are likely to cause or exacerbate health problems. High humidity and uncontrolled moisture in the home can result in greater pollutant concentrations and increased growth of biological contaminants, as well as deterioration of furniture, paint, and more.

Improving Indoor Air Quality

To improve indoor air quality, pollutants must be exhausted, and moisture must be controlled. This is best accomplished using ventilation systems appropriate for the homeowner's living spaces. High humidity conditions are most commonly created through the use of bathroom fixtures, so proper bathroom ventilation is essential for improved indoor air quality.

Why Choose Delta Breez?

Delta Breez offers high quality and top-performing bathroom ventilation fans of varying sizes, airflow levels, and features to fit any application and budget. Delta Breez fans are designed to control and reduce the moisture in your home to improve indoor air quality and help decrease the risk of health problems. All Delta Breez fans feature a brushless DC motor fans for exceedingly quiet operation and low power consumption. Most models are ENERGY STAR® qualified, which means that they have passed rigorous energy efficiency standards set by the EPA, and reduce greenhouse gas emissions. Low energy consumption lowers utility bills and reduced emissions help to protect the environment, which in turn benefit you!

What makes Delta Breez Ventilation Fans different?

- 1. All Delta Breez ventilation fans are manufactured with brushless DC motor technology for extended reliability, lower power consumption and lower noise
- 2. Most Delta Breez ventilation fans are ENERGY STAR qualified* and ENERGY STAR Most Efficient
- 3. All Delta Breez ventilation fans have soft start and lock protection functions
- 4. All Delta Breez ventilation fans are precision engineered to run continuously for a minimum 70,000 hours
- 5. All Delta Breez ventilation fans come with a 3-Year limited warranty

What are the benefits of a brushless DC motor?



Reliability

Delta's brushless DC motor fans are engineered to outlast popular AC motor models by as much as 70 percent, reducing the need for replacement.

Less noise

Delta's brushless DC motor fans are precision engineered for low sound, down to less than 0.3 Sones, the lowest sound rating of any exhaust fan.

Less power consumption

Delta's brushless DC motor fans use up to 74% less power than popular AC motor exhaust fans.

Efficiency

Delta brushless DC motor fans are among the most efficient ventilation fans available, exceeding ENERGY STAR requirements for efficiency by as much as 367%.

All Delta Breez ventilation fans are precision engineered to run continuously for a minimum 70,000 hours.

^{*} Except for BreezRadiance series, which contain Heater

Certification and Qualification

About ENERGY STAR



ENERGY STAR is a joint program of the U.S. Department of Energy and the U.S. Environmental Protection Agency that identifies products in over 60 categories which meet rigorous energy efficiency standards. Started in 1992, ENERGY STAR is now an internationally recognized label for U.S.-originated products that reduce greenhouse gas emissions without sacrificing performance or quality. ENERGY STAR qualified products help to protect the environment by reducing energy consumption, which in turn reduces greenhouse gas emissions and saves consumers money on utility bills.

As an ENERGY STAR partner, Delta is committed to environmental protection and strives to create products meeting and surpassing current standards in energy efficiency. Delta Breez prides itself on delivering ENERGY STAR qualified products, some of which exceed the ENERGY STAR efficiency requirement by over 367%. With 49 models available in 2016 for evaluation, 46 models were awarded the ENERGY STAR recognition.

ENERGY STAR Most Efficient 2017



ENERGY STAR Most Efficient is a designation recognizing and advancing the most efficient products among those that qualify for the ENERGY STAR label. ENERGY STAR Most Efficient products reduce greenhouse gas emissions by meeting rigorous energy efficiency performance levels set by the U.S. Environmental Protection Agency.

While 2.5% of all residential bathroom ventilation fans on the market were recognized as ENERGY STAR Most Efficient 2017, 14 models of the Delta Breez product line are recognized as such.

ASHRAE 62.2



ASHRAE 62.2 publishes a national standard that applies to single-family homes and multifamily dwellings to ensure proper ventilation and acceptable indoor air quality. The standards are commonly referenced in building codes and widely accepted by architects, engineers and mechanical contractors. ASHRAE 62.2 addresses minimum ventilation effectiveness and noise level performance of continuous and intermittent mechanical exhaust systems.

Ventilation Air Requirements, CFM

| Floor Area | | Bedrooms | | | | | | | | |
|------------|-----|----------|-----|-----|-----|--|--|--|--|--|
| (ft²) | 0–1 | 2–3 | 4–5 | 6–7 | >7 | | | | | |
| <1500 | 30 | 45 | 60 | 75 | 90 | | | | | |
| 1501-3000 | 45 | 60 | 75 | 90 | 105 | | | | | |
| 3001-4500 | 60 | 75 | 90 | 105 | 120 | | | | | |
| 4501-6000 | 75 | 90 | 105 | 120 | 135 | | | | | |
| 5001-7500 | 90 | 105 | 120 | 135 | 150 | | | | | |
| >7500 | 105 | 120 | 135 | 150 | 165 | | | | | |

Most Delta Breez fan models are ASHRAE 62.2 compliant for both intermittent and continuous run applications. This means that Breez fans are operable according to 62.2 guidelines for airflow and meet the minimum noise level requirements.

HVI



HVI, the Home Ventilating Institute, is an organization that runs a standardized testing and certification program for a wide range of home ventilating products. Products are tested to qualify for various performance parameters and undergo random verification. All tests are conducted in third party facilities that are independent of any manufacturing company, and testing procedures are designed by HVI members according to internationally recognized guidelines. All Delta Breez ventilation fans are HVI lab tested and certified.

Comprehensive Testing Process Ensures Reliability

The Delta Breez testing procedures for ventilation fan reliability verification are conducted before, during and after production. Customers can be assured of product durability and long life.

Design & Analysis Technology

Delta's design and analysis technology utilizes 3D and 2D tools to conduct thorough examination during the design and production phases. Software simulations to enable the highest standards of performance include:

Moldflow Analysis Software

Plastic mold



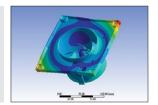
Aerodynamic Simulation Software

Fan blade curve design & air flow analysis



Structure Simulation Software

Structure analysis for stress and vibration



Semi-Anechoic Chamber

Noise testing for sound pressure and sound quality



Physical Testing for Ventilation Fan Reliability

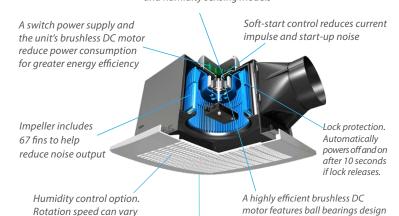
Laboratory testing of Delta Breez products analyzes functionality, durability under harsh conditions, and construction for long life. The Basic Function Test checks current, speed and noise, while the Safety Test includes leakage current, Hipot (high potential), ground bond and insulation testing. Comprehensive reliability testing continues with:

- Low Temperature and High Temp/Rating Voltage on/off Test
- Temperature Cycling & Power Switching
- Impeller Locked Test
- · Thermal Shock
- Humidity Exposure
- Water Spray
- Random Vibration and Drop (packing)
- Operational and Non-operation Vibration
- Mechanical Shock
- Life Test

Features of Brushless DC Motor Fans



Cycling switch to control on dual speed and humidity sensing models



Light weight design for easy installation

on humidity sensing models

to enhance the life of the product.



Delta Breez is powerful, durable and quietly efficient.

Backed by over 26 years of innovation and consistent quality, the brushless DC motor technology inside every Delta Breez product is why Breez ventilation fans are setting a new industry standard for energy efficient performance. All Delta Breez fans are:

- + Rigorously tested to achieve minimum noise
- + Equipped with soft start and lock protection functions
- + Engineered to run continuously for a minimum 70,000 hours

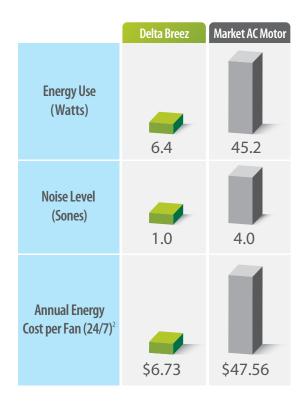
The energy saving bathroom solution.

The introduction of the Breez ventilation fan marks a new achievement in green construction for bathroom ventilation. The Breez ventilation fan delivers an aesthetically pleasing ventilation solution that consumes less power with advanced functionality, and operates more quietly than most AC motor products in the market.



Features and Benefits

- + Quiet measured at the lowest noise level (less than 0.3 Sones) a bath fan can be tested for HVI certification.
- + Low Energy Costs consumes up to 85% less energy than other leading fans, with as little as 4 Watts versus 45 Watts
- + Years of worry-free operation features precision engineered Delta brushless DC motor fans for superior performance and reliability. Made to outlast AC fan motors by as much as 70%, reducing the frequency of motor replacement
- + Easier Installation Breez retrofit models can fit into most existing bath ceiling cut outs
- + Certification exceeds ENERGY STAR requirements by up to 367%¹. UL and cUL listed for tub/shower enclosure when used with GFCI branch circuit wiring



1 Based upon ENERGY STAR V4.0 criteria for residential ventilating fans 2 Calculations based upon U.S. average retail electricity. Actual results may vary



Delta Breez Series Ventilation Fans

The Delta BreezSlim Series fans feature a compact design and can be mounted in a ceiling or wall.

The Delta BreezIntegrity Series fans feature a compact design, LED light option or built-in Bluetooth® speaker design.

The Delta BreezGreenBuilder Series fans offer light options, humidity sensing and low speed control, and record low power consumption at 3.8 Watts. Fan only or single speed models can be installed in a ceiling or wall.

The Delta BreezRadiance is a low noise ceiling mount ventilating fan, light and heater.

Delta BreezRecessed incorporates brushless DC motor fan technology into an LED recessed can light for the ultimate in design and performance.

The Delta BreezSignature Series fans are available with light options, adjustable humidity and speed controls, motion sensing capabilities and a delay timer.

The Delta BreezSmart Series fans feature higher airflow, humidity and motion sensing along with dual speed and an LED option.

The Delta BreezProfessional offers powerful airflow extraction for heavier applications, but with quiet operation.

Delta Breez and ENERGY STAR

A commitment to the environment.

ENERGY STAR is a trusted, government-backed symbol that reflects a commitment to help protect the environment through energy efficient products and practices. Delta is proud of its commitment to the ENERGY STAR program and label. All Delta Breez products, with exception of the heater/fan/light, are ENERGY STAR® qualified.



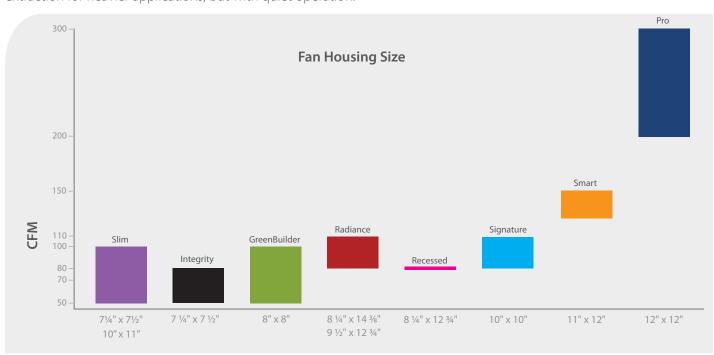
For more information, visit www.energystar.gov

CALGreen



CALGreen is state building code requirement for California that sets baseline efficiency and sustainability standards. High efficiency products such as Delta Breez ventilation fans help builders meet this requirement.

For more information, visit www.bsc.ca.gov/Home/CALGreen.aspx



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Delta BreezSignature Series Fan and Fan/LED Light

Innovative brushless DC motor design for long life, low noise, and low power consumption

The Delta BreezSignature boasts a <0.3 Sones and enhanced airflow at 0.25" static pressure. Add an LED indicator light so you know the fan is running, a fresh grille design, and the exceptional reliability and efficiency of Delta's brushless DC motor, and you have a winner. The BreezSignature is available with adjustable humidity and speed controls, motion sensing capabilities, and a delay timer.

Features:

- Energy savings up to 71% ¹ and 6" metal duct
- <0.3 Sones lowest noise level among competing fans
- Exceeds ENERGY STAR requirement by 250% in energy efficiency²
- Adjustable high speed of 80 or 110 CFM
- Motion-sensing and humidity-sensing options with continuous adjustable low-speed function

Fan/LED Light Combo:

- 13-Watt LED main light and 2-Watt LED night light
- Main light output 800 lumens, 2700K
- 1 Based upon SIG80 vs. market AC motor.
- 2 Based upon ENERGY STAR v4.0 criteria for residential ventilating fans



Fan only & Fan with Humidity Sensor or Dual Speed



Fan with Motion Sensor



Fan/LED Light/ Night-Light (Options: Fan with Dual Speed, Humidity Sensor, or Motion Sensor)





High Speed Switch



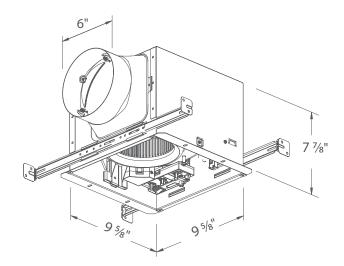


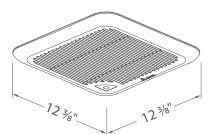




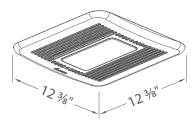


BreezSignature G3 Series Dimensions





Fan Grille with motion sensor



Fan/LED Light Grille

SIG80-110D SIG80-110DLED Controls



SIG80-110H SIG80-110HLED SIG80-110MH SIG80-110MHLED Controls



SIG80-110MHLED Motion Controls



LED Indicator Light: SIG80-110, SIG80-110LED,



LED Indicator Light: SIG80-110D

Continous Low Speed



LED Indicator Light: SIG80-110H, SIG80-110HLED, SIG80-110MH

Humidity Sensing



LED Indicator Light: SIG80-110DLED

Low Speed



LED Indicator Light: SIG80-110MHLEDLow Speed Full Speed

l l l





1 Calculations based upon U.S. average retail electricity. Actual results may vary



Delta BreezSignature G3 Series Specifications

SIG80-110 - 80/110 CFM Fan

| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | | | | |
|-------------------------------|----------|------|-------|------|--|--|--|--|
| Air Flow (CFM) | 80 | 80 | 110 | 110 | | | | |
| Sones | < 0.3 | 0.5 | < 0.3 | 0.6 | | | | |
| Power Consumption (Watts) | 6.2 | 9.9 | 8.2 | 14.1 | | | | |
| Energy Efficiency (CFM/Watts) | 15.4 | 15.3 | 8.7 | | | | | |
| Current (Amps) | 0.38 Max | | | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | | | | |

SIG80-110LED - 80/110 CFM Fan/LED Light/Night-Light

| SIGOU I TOLLD OU | / I TO CITWIT | and LLD Ligi | it/ i vigitt Lig | 110 | | | | | | | |
|-------------------------------|---------------|--------------|------------------|------|--|--|--|--|--|--|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | | | | | | | |
| Air Flow (CFM) | 80 | 80 | 110 | 110 | | | | | | | |
| Sones | < 0.3 | 0.5 | < 0.3 | 0.8 | | | | | | | |
| Power Consumption (Watts) | 6.8 | 9.9 | 9.7 | 15.5 | | | | | | | |
| Energy Efficiency (CFM/Watts) | 13.8 | 12.7 | 8.0 | | | | | | | | |
| Current (Amps) | | 0.48 | Max | | | | | | | | |
| Power Rating (V/Hz) | | 120 |)/60 | | | | | | | | |
| LED Main Light (Watts) | | 13 | | | | | | | | | |
| LED Night Light (Watts) | | 2 | | | | | | | | | |

SIG80-110D - 80/110 CFM Fan with Dual Speed

| | | | | | | | | | | (1) | | |
|-------------------------------|----------|---|------|------|-------|------|------|------|------|------------|--|--|
| Fan Speed | | Continuous Low Speed | | | | | | | | Full Speed | | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | | |
| Air Flow (CFM) | 30 | 30 | 50 | 50 | 60 | 60 | 80 | 80 | 110 | 110 | | |
| Sones | <0.3 | <0.3 | <0.3 | <0.3 | < 0.3 | 0.3 | <0.3 | 0.5 | <0.3 | 0.6 | | |
| Power Consumption (Watts) | 4.4 | 6.3 | 4.8 | 7.3 | 5.5 | 8.6 | 6.2 | 9.9 | 8.2 | 14.1 | | |
| Energy Efficiency (CFM/Watts) | 9.0 | 9.0 5.9 13.5 8.0 13.3 8.0 15.4 9.0 15.3 8.7 | | | | | | | 8.7 | | | |
| Current (Amps) | 0.38 Max | | | | | | | | | | | |
| Power Rating (V/Hz) | | 120/60 | | | | | | | | | | |

SIG80-110DLED - 80/110 CFM

| Fan/LED Light/Night | t-Light with Dual Speed | | | | | | | | | |
|--|-------------------------|-------------------------------|------|--------|--------|-------|------|------|--------|------|
| Fan Speed | | | Cont | inuous | Low Sp | eed | | | Full S | peed |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 30 | 30 | 50 | 50 | 60 | 60 | 80 | 80 | 110 | 110 |
| Sones | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | 0.3 | <0.3 | 0.5 | <0.3 | 0.8 |
| Power Consumption (Watts) | 4.4 | 6.7 | 5.2 | 8.2 | 5.6 | 8.7 | 6.8 | 9.9 | 9.7 | 15.5 |
| Energy Efficiency (CFM/Watts) | 9.5 | 5.8 | 12.3 | 7.1 | 13.2 | 8.0 | 13.8 | 8.4 | 12.7 | 8.0 |
| Current (Amps) | | | | | 0.48 | 8 Max | | | | |
| Power Rating (V/Hz) | | | | | 120 | 0/60 | | | | |
| LED Main Light (Watts) | 13 | | | | | | | | | |
| LED Night Light (Watts) | | | | | | 2 | | | | |
| Power Rating (V/Hz) LED Main Light (Watts) | | 0.48 Max 120/60 13 2 | | | | | | | | |

SIG80-110H - 80/110 CFM Fan with Humidity Sensor

| 5.555 5. | | | | | G | | C50 | | | • |
|-------------------------------|----------|------|-------|--------|--------|------|-------|------|--------|------|
| Fan Speed | | | Cont | inuous | Low Sp | eed | | | Full S | peed |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 30 | 30 | 50 | 50 | 60 | 60 | 80 | 80 | 110 | 110 |
| Sones | < 0.3 | <0.3 | < 0.3 | <0.3 | < 0.3 | 0.3 | < 0.3 | 0.5 | < 0.3 | 0.6 |
| Power Consumption (Watts) | 4.4 | 6.3 | 4.8 | 7.3 | 5.5 | 8.6 | 6.2 | 9.9 | 8.2 | 14.1 |
| Energy Efficiency (CFM/Watts) | 9.0 | 5.9 | 13.5 | 8.0 | 13.3 | 8.0 | 15.4 | 9.0 | 15.3 | 8.7 |
| Current (Amps) | 0.38 Max | | | | | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | | | | | | |
| | | | | | | | | | | |

SIG80-110HLED - 80/110 CFM

Fan/LED Light/Night-Light with Humidity Sensor

| Fan Speed Continuous Low Speed Full Speed Static Pressure (Inches w.g.) 0.1 0.25 0.0 | | | | | | , | | | | | |
|--|-------------------------------|--------|------|-------|--------|--------|-------|-------|------|--------|------|
| Air Flow (CFM) 30 30 50 50 60 60 80 80 110 110 Sones <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 | Fan Speed | | | Cont | inuous | Low Sp | eed | | | Full S | peed |
| Sones <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 <0.3 0.5 <0.3 0.8 Power Consumption (Watts) 4.4 6.7 5.2 8.2 5.6 8.7 6.8 9.9 9.7 15.5 Energy Efficiency (CFM/Watts) 9.5 5.8 12.3 7.1 13.2 8.0 13.8 8.4 12.7 8.0 Current (Amps) 0.48 Max Power Rating (V/Hz) 120/60 LED Main Light (Watts) 13 | Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 |
| Power Consumption (Watts) 4.4 6.7 5.2 8.2 5.6 8.7 6.8 9.9 9.7 15.5 Energy Efficiency (CFM/Watts) 9.5 5.8 12.3 7.1 13.2 8.0 13.8 8.4 12.7 8.0 Current (Amps) 0.48 Max 120/60 120/60 120/60 120/60 13.8 | Air Flow (CFM) | 30 | 30 | 50 | 50 | 60 | 60 | 80 | 80 | 110 | 110 |
| Energy Efficiency (CFM/Watts) 9.5 5.8 12.3 7.1 13.2 8.0 13.8 8.4 12.7 8.0 Current (Amps) 0.48 Max Power Rating (V/Hz) 120/60 LED Main Light (Watts) 13 | Sones | <0.3 | <0.3 | < 0.3 | < 0.3 | <0.3 | 0.3 | < 0.3 | 0.5 | <0.3 | 0.8 |
| Current (Amps) 0.48 Max Power Rating (V/Hz) 120/60 LED Main Light (Watts) 13 | Power Consumption (Watts) | 4.4 | 6.7 | 5.2 | 8.2 | 5.6 | 8.7 | 6.8 | 9.9 | 9.7 | 15.5 |
| Power Rating (V/Hz) 120/60 LED Main Light (Watts) 13 | Energy Efficiency (CFM/Watts) | 9.5 | 5.8 | 12.3 | 7.1 | 13.2 | 8.0 | 13.8 | 8.4 | 12.7 | 8.0 |
| LED Main Light (Watts) 13 | Current (Amps) | | | | | 0.48 | 3 Max | | | | |
| 3 , , | Power Rating (V/Hz) | 120/60 | | | | | | | | | |
| LED Night Light (Watts) 2 | LED Main Light (Watts) | 13 | | | | | | | | | |
| | LED Night Light (Watts) | | | | | | 2 | | | | |

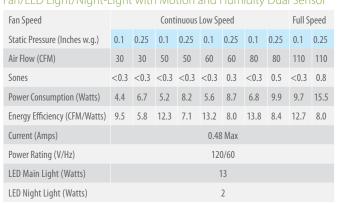
SIG80-110MH - 80/110 CFM

Fan with Motion and Humidity Dual Sensor

| | | | , | u. 0 c | | | | | | |
|-------------------------------|----------|---|------|--------|--------|------|------|------|------------|------|
| Fan Speed | | | Cont | inuous | Low Sp | eed | | | Full Speed | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 30 | 30 | 50 | 50 | 60 | 60 | 80 | 80 | 110 | 110 |
| Sones | <0.3 | <0.3 <0.3 <0.3 <0.3 <0.3 0.3 0.5 <0.3 0.6 | | | | | | | | |
| Power Consumption (Watts) | 4.4 | 6.3 | 4.8 | 7.3 | 5.5 | 8.6 | 6.2 | 9.9 | 8.2 | 14.1 |
| Energy Efficiency (CFM/Watts) | 9.0 | 5.9 | 13.5 | 8.0 | 13.3 | 8.0 | 15.4 | 9.0 | 15.3 | 8.7 |
| Current (Amps) | 0.38 Max | | | | | | | | | |
| Power Rating (V/Hz) | | 120/60 | | | | | | | | |
| | | | | | | | | | | |

SIG80-110MHLED - 80/110 CFM

Fan/LED Light/Night-Light with Motion and Humidity Dual Sensor



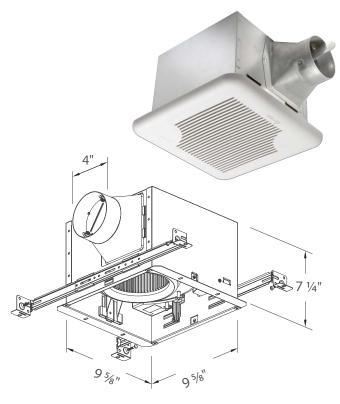


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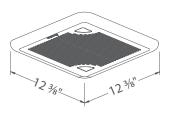
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LED 於

Delta BreezSignature G2 Series



Fan Housing



Fan Grille

LED Indicator Light: SIG80 and SIG110



LED Indicator Light: SIG80D









SIG80D







Specifications

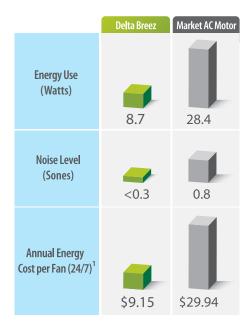
SIG80 - 80 CFM Single Speed Exhaust Fan

| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | | | | | |
|-------------------------------|----------|------|--|--|--|--|--|--|
| Air Flow (CFM) | 80 | 79 | | | | | | |
| Sones | <0.3 | 0.5 | | | | | | |
| Power Consumption (Watts) | 8.7 | 14.0 | | | | | | |
| Energy Efficiency (CFM/Watts) | 9.7 | 6.3 | | | | | | |
| Current (Amps) | 0.30 Max | | | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | | | | |

| SIG80D - 80 CFM Dual Speed Exhaust Fan | | | | | | | | | |
|--|----------|-----------------------------|-------|-------|-------|------|-------|------|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | |
| Air Flow (CFM) | 30 | 31 | 50 | 50 | 60 | 61 | 80 | 79 | |
| Sones | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 | 0.3 | < 0.3 | 0.5 | |
| Power Consumption (Watts) | 4.8 | 8.9 | 6.6 | 9.8 | 6.7 | 11.8 | 8.7 | 14.0 | |
| Energy Efficiency (CFM/Watts) | 7.7 | 7.7 4.1 8.4 5.2 9.9 5.6 9.7 | | | | | | | |
| Current (Amps) | 0.30 Max | | | | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | | | | | |

SIG110 - 110 CFM Single Speed Exhaust Fan

| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | | | | | |
|-------------------------------|----------|------|--|--|--|--|--|--|
| Air Flow (CFM) | 110 | 95 | | | | | | |
| Sones | <0.3 | 0.6 | | | | | | |
| Power Consumption (Watts) | 13.6 | 16.0 | | | | | | |
| Energy Efficiency (CFM/Watts) | 9.0 | 6.4 | | | | | | |
| Current (Amps) | 0.38 Max | | | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | | | | |



1 Calculations based upon U.S. average retail electricity. Actual results may vary



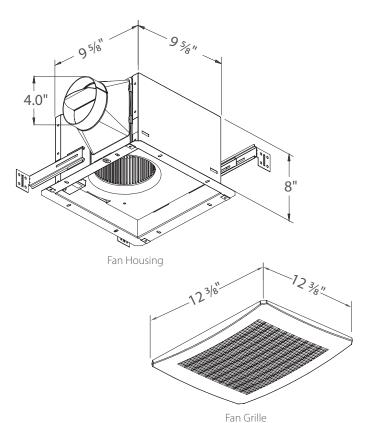
Delta BreezSignature G1 Series

The Delta BreezSignature G1 Series ventilation fans come in 4 different models. All of the BreezSignature fans feature quiet operation, low power consumption and Delta's durable brushless DC motor.

Features:

Innovative design for long life, low noise, and low power consumption.

- Energy savings up to 74%
- Lowest sone level rated by HVI at <0.3 Sones
- Exceeds ENERGY STAR requirements by 292% in energy efficiency ¹















LED light underneath grille indicates fan mode: Humidity Sensing Full Speed Operation





| | Delta Breez | Market AC Motor |
|---|-------------|-----------------|
| Energy Use (Watts) | 7.2 | 28.4 |
| Noise Level (Sones) | <0.3 | 0.8 |
| Annual Energy Cost per Fan (24/7) ² | \$7.57 | \$29.94 |

1 Based upon ENERGY STAR criteria for residential ventilating fans. 2 Based upon BreezSignature VFB25ACH vs. market AC motor fan.



Specifications

| VFB25ACH* - 80 CFM Humidity Sensor Exhaust Fan | | | |
|--|----------------|------|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
| Air Flow (CFM) | 80 | 56 | |
| Sones | <0.3 | 0.8 | |
| Power Consumption (Watts) | 7.2 | 9.3 | |
| Energy Efficiency (CFM/Watts) | 11.0 | 6.0 | |
| Current (Amps) | 0.12 @ 110 Vac | | |
| Power Rating (V/Hz) | 110~220/50~60 | | |

| VFB25ADH - 110 CFM Humidity Sensor Exhaust Fan | | | | |
|--|----------------|------|--|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | |
| Air Flow (CFM) | 110 | 81 | | |
| Sones | 1.0 | 1.5 | | |
| Power Consumption (Watts) | 14.2 | 15.0 | | |
| Energy Efficiency (CFM/Watts) | 7.7 | 5.3 | | |
| Current (Amps) | 0.22 @ 110 Vac | | | |
| Power Rating (V/Hz) | 110~220/50~60 | | | |

^{*} Product is ENERGY STAR Most Efficient 2017 distinction and ENERGY STAR qualified

| VFB25ADBT - 110 CFM E | Bl uetooth | |
|-------------------------------|-------------------|---------|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 |
| Air Flow (CFM) | 110 | 81 |
| Sones | 1.0 | 1.5 |
| Power Consumption (Watts) | 14.2 | 15.0 |
| Energy Efficiency (CFM/Watts) | 7.7 | 5.3 |
| Current (Amps) | 0.3 @ 1 | 110 Vac |
| Power Rating (V/Hz) | 110~220 | 0/50~60 |

| VFB25AEH - 130 CFM Humidity Sensor Exhaust Fan | | | |
|--|--------|---------|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
| Air Flow (CFM) | 130 | 105 | |
| Sones | 2.0 | N/A | |
| Power Consumption (Watts) | 22 | 22 | |
| Energy Efficiency (CFM/Watts) | 6.7 | 5.9 | |
| Current (Amps) | 0.36@ | 110 Vac | |
| Power Rating (V/Hz) | 110~22 | 0/50~60 | |
| | | | |

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Delta BreezSignature SIG-CRD

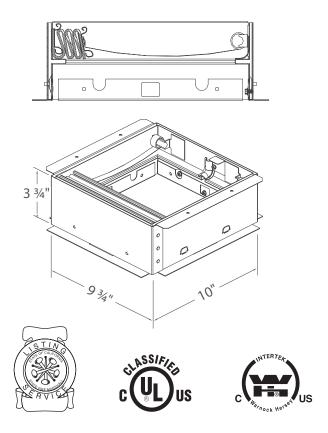
(Ceiling Radiation Damper)

The damper employs a folded curtain style blade for point-of-origin control of radiant heat in a ventilation system. SIG-CRD installs in the ceiling membrane for floor/ceiling or roof/ceiling assemblies with a fire resistance rating up to and including 3 hours.

Features:

- UL listed as fan/damper assembly for the following Wood Frame Construction designs: L521, L546, L558, L562, L574, L576, L581, L583, L585, P522, P533, P538 and P545
- Meets both UL555C and UL263. UL and cUL listed and exceeds UL 555C for use in 3-hour fire rated assemblies
- Warnock-Hersey certified for use in fire rated floor ceiling or roof/ceiling assembles. Warnock Hersey listing #: 102195501SAT-002
- CSFM listing: 3226-0368:104
- UL 555C listing: R27832
- Meets NFPA Standards: 90A and 101
- Meets Building Code Standards: IBC, NBC, NFPA, SBC, & UBC
- Available for use with Delta Breez SIG Series ventilation fans



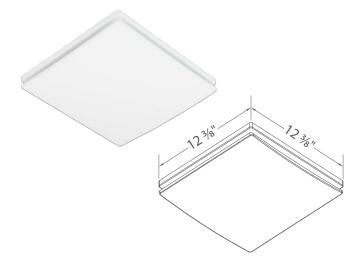


Delta BreezSignature SIG-DGL (Designer Grille)

The SIG-DGL designer fan grille is offered as an alternative to the standard grille on Delta Breez SIG80, SIG80D, SIG110, SIG110D, and SIG110H

Features:

- Size: 12 3/8" x 12 3/8"
- Accessories fans in Delta BreezSignature series
- Adds modern aesthetic to bathroom
- Made of long lasting ABS material
- Attaches directly to fan housing with torsion springs





Delta BreezSlim G2 Series

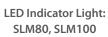
The BreezSlim series of fans are suitable for ceiling or sidewall installation. All BreezSlim fans are ENERGY STAR qualified and fit in a 4" wall. Delta Breez SLM80 and SLM100 models offer a 4" metal oval duct adapter with a 4-3" plastic round duct adapter. As with all Delta Breez fans, BreezSlim series fans also feature an LED indicator light underneath the grille to assure the user that this quiet fan is running.

Features:

Slim design with innovative brushless DC motor design for long life, low noise, and low power consumption

- 3" Round or 4" Oval Duct:
 - Noise level at down to 0.6 Sones
 - Annual energy cost for 24/7 operation is approximately \$8.94 ¹
 - Ultra low power consumption down to 8.5 Watts
- UL approved for ceiling and wall mount installation
- LED indicator light green when power is on





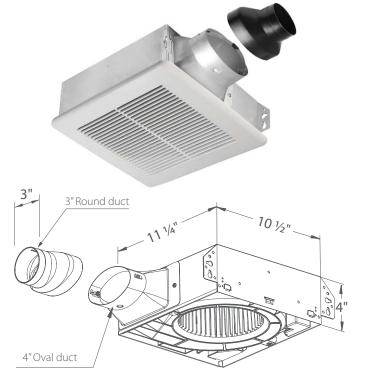


1 Calculations based upon U.S. average retail electricity. Actual results may vary

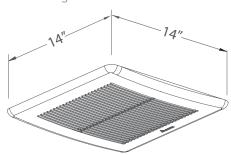








Fan Housing for SLM80 and SLM100



Fan Grille

Specifications

SLM80 - 80 CFM Single Speed Exhaust Fan

| 9 | | | | | | |
|---|-----------------|------|---------------|------|--|--|
| | 4" Oval Duct | | 3" Round Duct | | | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | | |
| Air Flow (CFM) | 80 | 66 | 70 | 57 | | |
| Sones | 0.6 | 1.1 | 0.9 | 1.5 | | |
| Power Consumption (Watts) | 8.5 | 10.9 | 10.5 | 12.0 | | |
| Energy Efficiency (CFM/Watts) | 9.4 6.0 6.6 4.7 | | | | | |
| Current (Amps) | 0.26 Max | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | | |
| Project Pack Components Available SLM-A2 (housing) and SLM80-B (motor grille) | | | | | | |

SLM100 - 100 CFM Single Speed Exhaust Fan

| | 5 | | |
|--|--------------|------|--|
| | 4" Oval duct | | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
| Air Flow (CFM) | 100 | 84 | |
| Sones | 1.0 | 1.5 | |
| Power Consumption (Watts) | 14.5 | 17.7 | |
| Energy Efficiency (CFM/Watts) | 6.8 | 4.7 | |
| Current (Amps) | 0.3 Max | | |
| Power Rating (V/Hz) | 120/60 | | |
| Project Pack Components Available SLM-A2 (housing) and SLM100-B (motor grille) | | | |



Delta BreezSlim G1 Series

Super Low Profile. Super Low Energy Consumption.

Weighing in at less than 5 lbs., the powerful yet compact Delta BreezSlim sets the bar for performance in the popular small fan size of 7 1/2" x 7 1/4" x 4". Operating at just 1.0 Sone, this quiet fan features Delta's super reliable brushless DC motor, an LED indicator light so you know it's running, and a modern grille design. Perfect for retrofit into an existing space or for ceiling mount or wall mount installation (UL listed for both) into your next multifamily or single-family project. BreezSlim breaks the mold of the everyday bathroom exhaust fan. Available in contractor packs.

Features:

Innovative brushless DC motor design for long life, low noise, and low power consumption.

- Energy savings up to 85% ¹ and 3" duct (standard)
- 1 Sone The quietest ever in a 7 ½" x 7 ¼" bath fan
- Exceeds ENERGY STAR requirements by 217% in energy efficiency²
- UL listed for both ceiling-mount and wall-mount installation

1 Based upon SLM50 vs. market AC motor 2 Based upon ENERGY STAR v4.0 criteria for residential ventilating fans













Available with Project Pack Components



Available with metal duct adapter





LED Indicator Light: SLM70H









SLM50* - 50 CFM Single Speed Exhaust Fan

| | 9 ' | | |
|--|--------------------|-------|--|
| | 3" Duct (Standard) | | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
| Air Flow (CFM) | 50 | 36 | |
| Sones | 1.0 | 1.2 | |
| Power Consumption (Watts) | 6.4 | 6.3 | |
| Energy Efficiency (CFM/Watts) | 11.6 | 7.4 | |
| Current (Amps) | 0.18 | 3 Max | |
| Power Rating (V/Hz) | 120/60 | | |
| Project Pack Components Available SLM-A (housing) and SLM50-B (motor grille) | | | |

SLM70 - 70 CFM Single Speed Exhaust Fan

| | 3" Duct (Standard) | | |
|--|--------------------|------|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
| Air Flow (CFM) | 70 | 54 | |
| Sones | 2.0 | 1.5 | |
| Power Consumption (Watts) | 13.2 | 11.6 | |
| Energy Efficiency (CFM/Watts) | 5.8 | 5.0 | |
| Current (Amps) | 0.29 Max | | |
| Power Rating (V/Hz) | 120/60 | | |
| Project Pack Components Available SLM-A (housing) and SLM70-B (motor grille) | | | |

SLM70H - 70 CFM Fan with Humidity sensor



^{*} Product is ENERGY STAR Most Efficient 2017 distinction and ENERGY STAR qualified

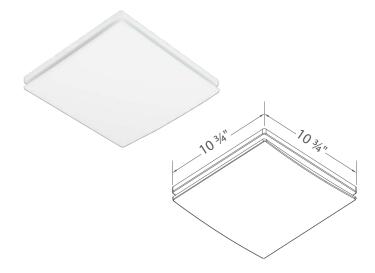
Delta BreezSignature SLM-DGL

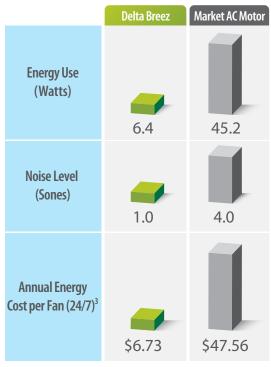
(Designer Grille)

The SLM-DGL designer fan grille is offered as an alternative to the standard grille on Delta Breez SLM50, SLM70 and SLM70H

Features:

- Size: 10 ¾" x 10 ¾"
- Accessories fans in Delta BreezSlim series
- · Adds modern aesthetic to bathroom
- Made of long lasting ABS material
- Attaches directly to fan housing with torsion springs





3 Calculations based upon U.S. average retail electricity. Actual results may vary



Delta BreezGreenBuilder Series

The Builder's Choice for Green Construction.

Delta BreezGreenBuilder ventilation fans mark a new achievement in bathroom ventilation for green construction. Built upon market-leading energy efficiency, exceptionally low power consumption and quiet operation, the BreezGreenBuilder series offers a CFL or LED light option as well as humidity sensing option with continuous low speed control.

BreezGreenBuilder stays true to what has made the GreenBuilder series a winning value proposition for builders and contractors: a super reliable Delta brushless DC motor, a compact lightweight design for quick installation coupled with sound and flow ratings that far surpass building requirements...all at an affordable price.

Features:

Innovative brushless DC motor design for long life, low noise, and low power consumption

- Energy savings up to 86% ¹ and 4" duct (standard)
- Lowest Sone level rated by HVI as low as 0.3 Sones
- Power consumption down to 3.8 Watts
- Exceeds ENERGY STAR requirements by 367% in energy efficiency²
- Fan and Fan/Light combination project pack available
- Fan only models are UL listed for both ceiling-mount and wall-mount installation

Fan/Light:

- (1) GU24 26-Watt compact fluorescent lamp included
- Main light output 1850 Lumens, 2700K

Fan/LED Light:

- 13-Watt LED lamp included (equivalent to a 60-Watt incandescent bulb)
- Main light output 850 lumens, 2700K

Fan/LED Light DECOR:

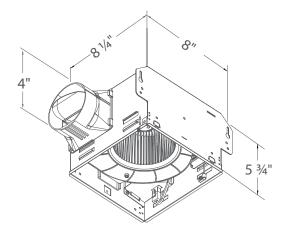
- 13-Watt LED lamp included
- Main light output 950 Lumens, 3000K

1 Based on GreenBuilder GBR80 vs. market AC motor fan

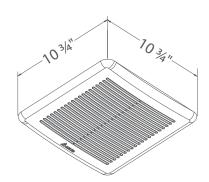
2 Based upon ENERGY STAR v4.0 criteria for residential ventilating fans



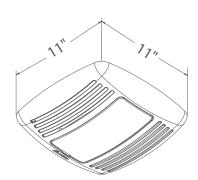
BreezGreenBuilder Series Dimensions



GreenBuilder Housing and motor



Grille for Fan Only

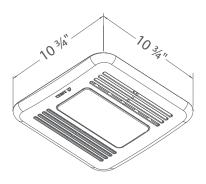


Grille for Fan/Light

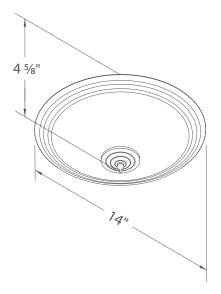








Grille for Fan/LED Light



Grille for Fan/LED Light DECOR

LED Indicator Light

Partisfulling

LED Indicator Light: GBR80H, GBR100H



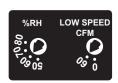
Full Speed



Built-in Controls
GBR80H, GBR80HL, GBR80MHL,



Built-in Controls GBR100H





Delta BreezGreenBuilder Series **Specifications**

GBR80 - 80 CFM Single Speed Exhaust Fan

| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | |
|--|----------|------|--|--|
| Air Flow (CFM) | 80 | | | |
| Sones | 0.8 | 1.5 | | |
| Power Consumption (Watts) | 10.5 | 12.5 | | |
| Energy Efficiency (CFM/Watts) | 7.6 5.1 | | | |
| Current (Amps) | 0.21 Max | | | |
| Power Rating (V/Hz) | 120/60 | | | |
| Project Pack Components Available GBR-A (housing) and GBR80-B (motor/grille) | | | | |

GBR80H - 80 CFM Fan with Humidity Sensor

| abridor to crivitan with hamility sensor | | | | |
|--|----------------------|------|------------|------|
| Fan Speed | Continuous Low Speed | | Full Speed | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 50 | 35 | 80 | 64 |
| Sones | <0.3 | 1.0 | 0.8 | 1.5 |
| Power Consumption (Watts) | 4.0 | 6.0 | 9.7 | 11.8 |
| Energy Efficiency (CFM/Watts) | 12.5 | 5.8 | 8.2 | 5.4 |
| Current (Amps) | 0.22 Max | | | |
| Power Rating (V/Hz) | 120/60 | | | |
| Project Pack Components Available GBRL-A (housing) and GBR80H-B (motor/grille) | | | | |

GRR80HI - 80 CEM Fan / Light with Humidity Sensor

| GDNOUTL - 80 CFM Fan/Lig | gnt with Humidity Sensor | | | ₩ • |
|-------------------------------|--------------------------|------|--------|------|
| Fan Speed | Continuous Low Speed | | Full S | peed |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 50 | 35 | 80 | 63 |
| Sones | 0.4 | 0.8 | 0.8 | 1.5 |
| Power Consumption (Watts) | 5.3 | 7.0 | 11.5 | 11.4 |
| Energy Efficiency (CFM/Watts) | 9.4 | 5.0 | 6.9 | 5.5 |
| Current (Amps) | 0.63 Max | | | |
| Power Rating (V/Hz) | 120/60 | | | |
| Lamp (Watts) | 26 | | | |
| | | | | |

GBR80L - 80 CFM Fan/Light

| | ₩ = | | | |
|--------------------------------------|-------------------------|------|--|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | |
| Air Flow (CFM) | 80 | 63 | | |
| Sones | 0.8 | 1.5 | | |
| Power Consumption (Watts) | 11.0 | 13.6 | | |
| Energy Efficiency (CFM/Watts) | 7.2 | 4.6 | | |
| Current (Amps) | 0.50 Max | | | |
| Power Rating (V/Hz) | 120/60 | | | |
| Lamp (Watts) | 26 | | | |
| Desirat Deal Community Assilette CDI | D (mastau/muilla/limbt) | | | |

Project Pack Components Available GBRL-A (housing) and GBR80L-B (motor/grille/light)

GBR80LED - 80 CFM Fan/LED Light

Power Rating (V/Hz) LED Module (Watts)

| GDITOOLLD OO CHWHAII/E | ₹LED | | | |
|-------------------------------|-------------|------|--|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | |
| Air Flow (CFM) | 80 | 63 | | |
| Sones | 8.0 | 1.5 | | |
| Power Consumption (Watts) | 11.0 | 13.0 | | |
| Energy Efficiency (CFM/Watts) | 7.2 | 4.8 | | |
| Current (Amps) | 0.33 Max | | | |

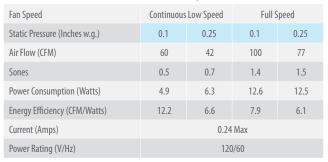
120/60

| GBR80MHL - 80 CFM Fan/Light Motion & Humidity Sensor 🗡 🖫 | | | | | | | |
|--|---------------------------------|------|------|------|--|--|--|
| Fan Speed | Continuous Low Speed Full Speed | | | | | | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | | | |
| Air Flow (CFM) | 50 | 35 | 80 | 63 | | | |
| Sones | 0.4 | 0.8 | 0.8 | 1.5 | | | |
| Power Consumption (Watts) | 5.3 | 7.0 | 11.5 | 11.4 | | | |
| Energy Efficiency (CFM/Watts) | 9.4 | 5.0 | 6.9 | 5.5 | | | |
| Current (Amps) | 0.63 Max | | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | | | |
| Lamp (Watts) | 26 | | | | | | |

GBR100 - 100 CFM Single Speed Exhaust Fan

| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | | |
|---|--------|------|--|--|--|
| Air Flow (CFM) | 100 | 77 | | | |
| Sones | 1.4 | 1.5 | | | |
| Power Consumption (Watts) | 12.6 | 11.6 | | | |
| Energy Efficiency (CFM/Watts) | 7.9 | 6.6 | | | |
| Current (Amps) 0.22 Max | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | |
| Project Pack Components Available GBR-A (housing) and GBR100-B (motor/grille) | | | | | |

GBR100H - 100 CFM Fan with Humidity Sensor



GBR100L - 100 CFM Fan/Light

| abilitate roo crivinari, Eight | | | | | |
|---|----------|------|--|--|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | | |
| Air Flow (CFM) | 100 | 72 | | | |
| Sones | 1.4 | 1.5 | | | |
| Power Consumption (Watts) | 13.9 | 11.9 | | | |
| Energy Efficiency (CFM/Watts) | 7.1 | 6.0 | | | |
| Current (Amps) | 0.63 Max | | | | |
| Power Rating (V/Hz) | 120/60 | | | | |
| Lamp (Watts) | 26 | | | | |
| Project Pack Components Available GBRL-A (housing) and GBR100L-B (motor/grille) | | | | | |

GBR100LED - 100 CFM Fan/LED Light

| GDITTOOLLD TOO CITWITE | in LLD Light | ₹LL <i>U</i> | | | |
|-------------------------------|--------------|--------------|--|--|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | | |
| Air Flow (CFM) | 100 | 72 | | | |
| Sones | 1.5 | 1.5 | | | |
| Power Consumption (Watts) | 13.6 | 11.6 | | | |
| Energy Efficiency (CFM/Watts) | 7.3 | 6.2 | | | |
| Current (Amps) | 0.35 Max | | | | |
| Power Rating (V/Hz) | 120/60 | | | | |
| LED Module (Watts) | 13 | | | | |

GBR100LED-DECOR - 100 CFM Fan/I FD Light

| SUNTOULLD DECON- 100 CHWI fall/LLD Light | | | | | |
|--|----------|------|--|--|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | | |
| Air Flow (CFM) | 100 | 72 | | | |
| Sones | 1.5 | 2.0 | | | |
| Power Consumption (Watts) | 13 | 12.5 | | | |
| Energy Efficiency (CFM/Watts) | 7.6 | 5.7 | | | |
| Current (Amps) | 0.32 Max | | | | |
| Power Rating (V/Hz) | 120/60 | | | | |
| LED Module (Watts) | 13 | | | | |

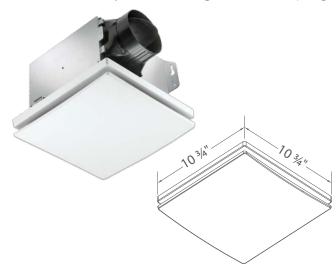
Delta BreezGreenBuilder GBR-DGL

(Designer Grille)

The GBR-DGL designer fan grille is offered as an alternative to the standard grille on GBR50, GBR80, GBR80H, GBR100, and GBR100H.

Features:

- Size: 10 ¾" x 10 ¾"
- Accessories fans in Delta Breez GreenBuilder series
- Adds modern aesthetic to bathroom
- Made of long lasting ABS material
- Attaches directly to fan housing with torsion springs



| | Delta Breez | Market AC Motor |
|---|-------------|-----------------|
| Energy Use (Watts) | 10.5 | 26.9 |
| Noise Level (Sones) | 0.8 | 1.5 |
| Annual Energy Cost per Fan (24/7) ¹ | \$11.04 | \$28.27 |

1 Calculations based upon U.S. average retail electricity. Actual results may vary

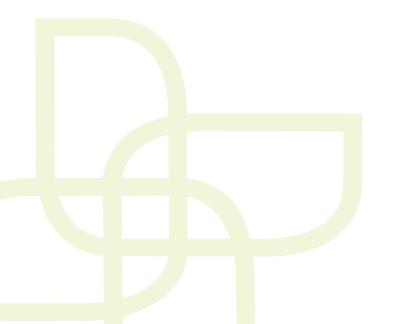




The damper employs a folded curtain style blade for point-of-origin control of radiant heat in a ventilation system. GBR-CRD installs in the ceiling membrane for floor/ceiling or roof/ceiling assemblies with a fire resistance rating up to and including 3 hours.

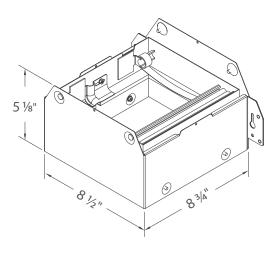
Features:

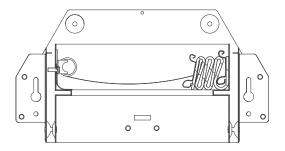
- UL and cUL listed and exceeds UL 555C for use in 3-hour fire rated assemblies
- Warnock-Hersey certified for use in fire rated floor/ ceiling or roof/ceiling assemblies
- CSFM listing: 3226-0368:104
- Meets NFPA Standards: 90A and 101
- Meets Building Code Standards: IBC, NBC, NFPA, SBC, and UBC
- Available for use with Delta Breez GBR Series ventilation fans



















Delta BreezSmart Series

The Smart Choice.

Delta BreezSmart Series is the perfect ventilation solution for today's larger, spa-style bathrooms.

Delivering high air movement at 130 CFM and 150

CFM, BreezSmart Series is virtually silent at <0.3 Sones, and consumes less than 18 Watts of power to reduce energy use and operating costs. Innovative brushless

DC motors in every fan are engineered to outlast AC models by as much as 70%. Choose from single speed or dual speed models, or motion-sensing and humidity-sensing options with adjustable low speed and delay timers.

Features:

Innovative brushless DC motor design for long life, low noise, and low power consumption

- Energy savings up to 67% ¹
- <0.3 Sones lowest noise level among competing fans
- Exceeds ENERGY STAR requirement by 220% in energy efficiency²
- Motion-sensing, humidity-sensing, LED and dual-speed options available with user-adjustable continuous low speed

Fan/LED light:

- 13-Watt LED main light and 2-Watt LED night light
- Main light output 800 Lumens, 2700K

1 Based upon BreezSmart SMT150 vs. market AC motor fan 2 Based upon ENERGY STAR v4.0 criteria for residential ventilating fans











Fan Only



LED Indicator Light: SMT130M, SMT150D

Continous Low Speed Full Speed

LED Indicator Light: SMT130H



LED Indicator Light: SMT130, SMT150, SMT150LED





Delta BreezSmart Series (Cont.)

The Smart Choice.

Built-in Controls

SMT130H Controls

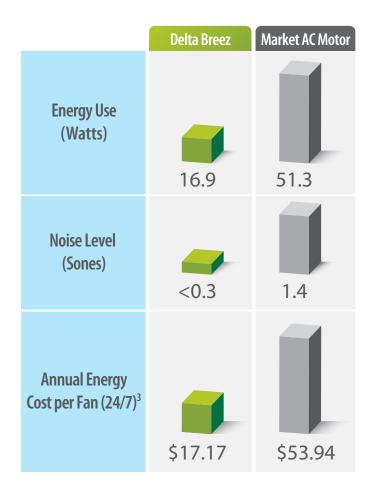


SMT130M Controls



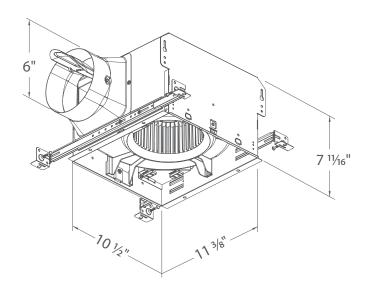
SMT150D Controls



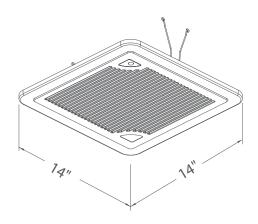




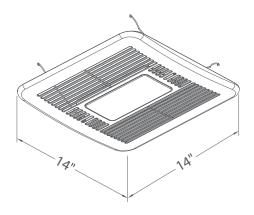
BreezSmart Series Dimensions



Fan Housing



Fan Grille



Fan/LED Light Grille

Specifications

SMT130* - 130 CFM Single Speed Exhaust Fan

| Static Pressure (Inches w.g.) | 0.1 | 0.25 | | | |
|-------------------------------|----------|------|--|--|--|
| Air Flow (CFM) | 130 | 124 | | | |
| Sones | <0.3 | 1.0 | | | |
| Power Consumption (Watts) | 11.6 | 20.0 | | | |
| Energy Efficiency (CFM/Watts) | 11.2 | 6.2 | | | |
| Current (Amps) | 0.44 Max | | | | |
| Power Rating (V/Hz) | 120/60 | | | | |

SMT130H* - 130 CFM with Humidity Sensor

| | | | | 001100 | | | | - |
|-------------------------------|----------|----------------------|------|--------|------|------------|------|------|
| Fan Speed | | Continuous Low Speed | | | | Full Speed | | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 50 | 49 | 70 | 68 | 90 | 88 | 130 | 124 |
| Sones | <0.3 | 1.0 | <0.3 | 1.0 | <0.3 | 1.0 | <0.3 | 1.0 |
| Power Consumption (Watts) | 5.6 | 12.2 | 6.9 | 13.5 | 8.0 | 15.5 | 11.6 | 20.0 |
| Energy Efficiency (CFM/Watts) | 8.9 | 4.0 | 10.1 | 5.0 | 11.2 | 5.6 | 11.2 | 6.2 |
| Current (Amps) | 0.44 Max | | | | | | | |
| Power Rating (V/Hz) | | 120/60 | | | | | | |

SMT130M* - 130 CFM with Motion Sensor

| The control of the co | | | | | | 不 | | |
|--|----------|----------------------|------|------|------|------------|------|------|
| Fan Speed | | Continuous Low Speed | | | | Full Speed | | |
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 50 | 49 | 70 | 68 | 90 | 88 | 130 | 124 |
| Sones | <0.3 | 1.0 | <0.3 | 1.0 | <0.3 | 1.0 | <0.3 | 1.0 |
| Power Consumption (Watts) | 5.6 | 12.2 | 6.9 | 13.5 | 8.0 | 15.5 | 11.6 | 20.0 |
| Energy Efficiency (CFM/Watts) | 8.9 | 4.0 | 10.1 | 5.0 | 11.2 | 5.6 | 11.2 | 6.2 |
| Current (Amps) | 0.44 Max | | | | | | | |
| Power Rating (V/Hz) | | 120/60 | | | | | | |

SMT150 - 150 CFM Single Speed Exhaust Fan

| 0.25 | | | | | |
|----------|--|--|--|--|--|
| 0.25 | | | | | |
| 149 | | | | | |
| 1.3 | | | | | |
| 23.7 | | | | | |
| 6.2 | | | | | |
| 0.47 Max | | | | | |
| 120/60 | | | | | |
| | | | | | |

SMT150D* - Adjustable 0-110/150 CFM Dual Speed Fan

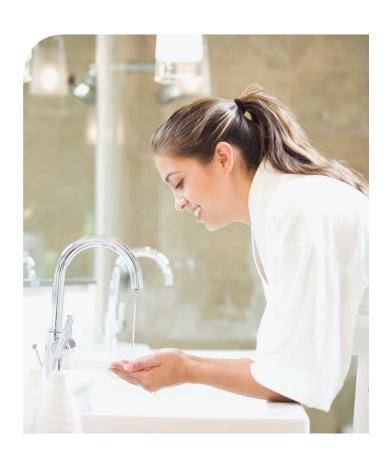
| Fan Speed | | Continuous Low Speed | | | | Full Speed | | |
|-------------------------------|----------|----------------------|-------|------|-------|------------|-------|------|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 70 | 68 | 90 | 88 | 110 | 109 | 150 | 149 |
| Sones | < 0.3 | 1.0 | < 0.3 | 1.0 | < 0.3 | 1.0 | < 0.3 | 1.3 |
| Power Consumption (Watts) | 6.9 | 13.5 | 8.0 | 15.5 | 9.8 | 18.4 | 16.9 | 23.7 |
| Energy Efficiency (CFM/Watts) | 10.1 | 5.0 | 11.2 | 5.6 | 11.2 | 5.9 | 8.8 | 6.2 |
| Current (Amps) | 0.47 Max | | | | | | | |
| Power Rating (V/Hz) | 120/60 | | | | | | | |

SMT150LED - 150 CFM Fan/LED Light/Night-Light

| A | | |
|----------|---|---|
| 97 | = | n |
| | | |

| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
|--|----------|------|--|
| Air Flow (CFM) | 150 | 150 | |
| Sones | 0.5 | 1.3 | |
| Power Consumption (Watts) | 17.6 | 25.4 | |
| Energy Efficiency (CFM/Watts) | 8.5 | 5.9 | |
| Current (Amps) | 0.62 Max | | |
| Power Rating (V/Hz) | 120/60 | | |
| LED Main Light (Watts) | 13 | | |
| LED Night Light (Watts) | 2 | | |
| Power Rating (V/Hz) LED Main Light (Watts) | 1 | 3 | |

^{*} Product is ENERGY STAR Most Efficient 2017 distinction and ENERGY STAR qualified





Delta BreezRadiance

The Delta BreezRadiance series combine a quiet bath fan, bathroom LED light and bathroom heater all in one with built-in thermostat and brushless DC motor for superior reliability and efficiency. Features a 1300/1500 Watts heating element with built-in thermostat for consistent temperature. Contemporary grille with LED light included. cUL listed and HVI certified.

Features:

Innovative design for long life, low noise, and low power consumption

- Energy saving DC motor technology
- Built-in thermostat for consistent temperature
- Metal guard to prevent user contact with heating element
- Heater module equipped with thermal cut off fuse
- Duct diameter of 4"
- 1300/1500 Watts heating element evaluated by cUL for safety standards

Fan/LED Light:

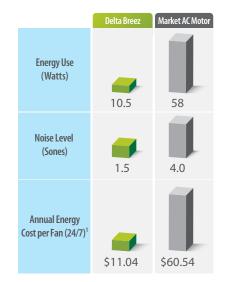
- 13-Watt LED lamp included (equivalent to a 60-Watt incandescent bulb)
- Main light output 850 lumens, 2700K
- Dimmable LED Light (dimmable switch is not included)







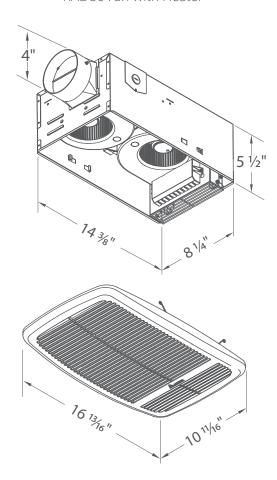
Built-in thermostat



1 Calculations based upon U.S. average retail electricity. Actual results may vary



RAD80 Fan with Heater



Specifications

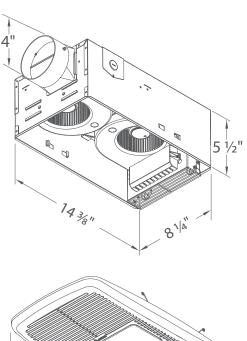
| RAD80 - 80 CFM Fan with Heater | | |
|--------------------------------|------|------|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 |
| Air Flow (CFM) | 80 | 54 |
| Sones | 1.5 | NA |
| Power Consumption (Watts) | 10.5 | 8.2 |
| Energy Efficiency (CFM/Watts) | 7.6 | 6.6 |
| Current (Amps) | 1 | 2 |
| Power Rating (V/Hz) | 120 | /60 |
| Heating element (Watts) | 13 | 00 |
| Total power (Watts) | 13 | 14 |



RAD80LED Fan/LED Light/Heater



RAD110LED Fan/LED Light/Heater



16 13/16" 10 M/16"

| 4" | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |
|--------|---------------------------------------|
| 151/4" | |
| | |
| 187, | |

| RAD80LED - 80 CFM Fan/L | LED W | | |
|-------------------------------|-------|------|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
| Air Flow (CFM) | 80 | 54 | |
| Sones | 1.5 | N/A | |
| Power Consumption (Watts) | 10.5 | 8.2 | |
| Energy Efficiency (CFM/Watts) | 7.6 | 6.6 | |
| Current (Amps) | 1 | 2 | |
| Power Rating (V/Hz) | 120 | /60 | |
| Heating element (Watts) | 1300 | | |
| Lamp (Watts) | 1 | 3 | |
| Total power (Watts) | 13 | 27 | |

| RAD110LED - 110 CFM Fan/LED Light with Heater | | | |
|---|--|--|--|
| 0.1 | 0.25 | | |
| 110 | 85 | | |
| 0.7 | 1.0 | | |
| 12.0 | 13.0 | | |
| 9.2 | 6.5 | | |
| 16 | | | |
| 120/60 | | | |
| 1500 | | | |
| 13 | | | |
| 1550 | | | |
| | 0.1 110 0.7 12.0 9.2 1 120 15 | | |



Delta BreezIntegrity Series

Delta BreezIntegrity series is ENERGY STAR qualified with brushless DC motor engineered to run continuously for a minimum 70,000 hours. UL and cUL listed for tub/shower enclosure when used with GFCI-protected branch circuit wiring.

Features:

Innovative brushless DC motor design for long life, low noise, and low power consumption

- Power rating of 120 volts/60Hz
- Brushless DC motor engineered to run continuously
- Motor equipped with thermal cutoff fuse
- Removable with permanently lubricated plug-in motor
- Built-in soft start function to increase bearings' life
- Automatically powers off when impeller is locked abnormally

Fan/LED Light:

- 13-Watt LED lamp included (equivalent to a 60-Watt incandescent bulb)
- Main light output 850 lumens, 2700K
- Dimmable LED light (dimmable switch not included)

Bluetooth® Speaker:

- Bluetooth® 3.0, Speaker 3W and 4 Ohm
- Play audio through most Bluetooth® wireless devices







The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth® SIG, Inc. and any use of such marks by Delta Electronics, Inc. is under license. Other trademarks and trade names are those of their respective owners.

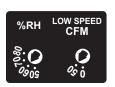






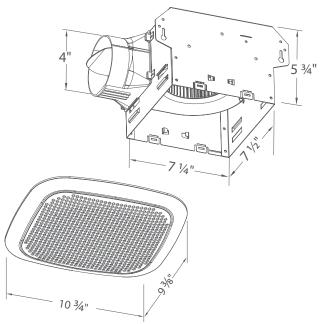


Built-in Controls ITG80H

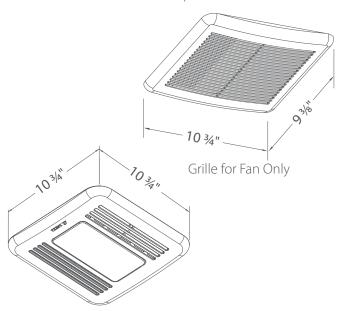




BreezIntegrity Series Dimensions



Grille for Fan with Bluetooth® Speaker



Grille for Fan/LED Light

Specifications

ITG50 - 50 CFM Fan

| 11 CSC SOCIMITAIN | | | |
|--|----------|------|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
| Air Flow (CFM) | 50 | 37 | |
| Sones | 0.7 | 1.3 | |
| Power Consumption (Watts) | 5.0 | 7.0 | |
| Energy Efficiency (CFM/Watts) | 12.5 | 6.7 | |
| Current (Amps) | 0.14 Max | | |
| Power Rating (V/Hz) | 120/60 | | |
| Project Pack Components Available ITG-A (housing) and ITG50-B (motor grille) | | | |
| | | | |

ITG50LED - 50 CFM Fan/LED Light

Static Pressure (Inches w.g.)

Power Consumption (Watts)

Energy Efficiency (CFM/Watts)

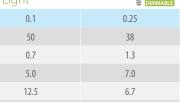
Air Flow (CFM)

Current (Amps)

Power Rating (V/Hz)

LED Light (Watts)

Sones



0.22 Max

120/60

13

ITG70BT - 70 CFM Fan with Bluetooth Speaker

Bluetooth*

| | the state of the s | | |
|-------------------------------|--|------|--|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
| Air Flow (CFM) | 70 | 59 | |
| Sones | 1.0 | 1.5 | |
| Power Consumption (Watts) | 8.4 | 10.0 | |
| Energy Efficiency (CFM/Watts) | 8.3 | 5.9 | |
| Current (Amps) | 0.22 Max | | |
| Power Rating (V/Hz) | 120/60 | | |
| | | | |

ITG80 - 80 CFM Fan

| Static Pressure (Inches w.g.) | 0.1 | 0.25 | |
|--|--------|------|--|
| Air Flow (CFM) | 80 | 68 | |
| Sones | 1.3 | 1.4 | |
| Power Consumption (Watts) | 9.5 | 10.3 | |
| Energy Efficiency (CFM/Watts) | 8.4 | 6.6 | |
| Current (Amps) | 0.20 | Max | |
| Power Rating (V/Hz) | 120/60 | | |
| Project Pack Components Available ITG-A (housing) and ITG80-B (motor grille) | | | |
| | | | |

ITG80H - 80 CFM Fan with Humidity Sensor

| _ |
|-----|
| |
| |
| • 🛦 |

| Fan Speed | Continuous Low Speed | | Full Speed | |
|-------------------------------|----------------------|------|------------|------|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 | 0.1 | 0.25 |
| Air Flow (CFM) | 50 | 36 | 80 | 60 |
| Sones | 0.7 | 1.0 | 1.5 | 1.5 |
| Power Consumption (Watts) | 5.0 | 7.0 | 10.0 | 10.0 |
| Energy Efficiency (CFM/Watts) | 12.0 | 6.9 | 9.0 | 6.2 |
| Current (Amps) | 0.20 Max | | | |
| Power Rating (V/Hz) | 120/60 | | | |

ITG80LED - 80 CFM Fan/LED Light



| Static Pressure (Inches w.g.) | 0.1 | 0.25 |
|-------------------------------|----------|------|
| Air Flow (CFM) | 80 | 60 |
| Sones | 1.3 | 1.5 |
| Power Consumption (Watts) | 11.3 | 11.5 |
| Energy Efficiency (CFM/Watts) | 7.2 | 6.2 |
| Current (Amps) | 0.28 Max | |
| Power Rating (V/Hz) | 120/60 | |
| LED Light (Watt) | 13 | |

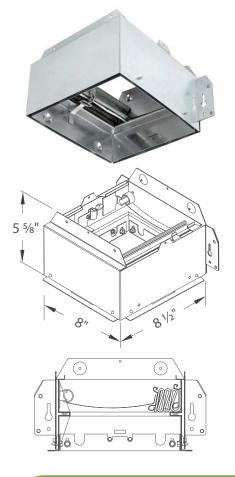


Delta BreezIntegrity ITG-CRD (Ceiling Radiation Damper)

The damper employs a folded curtain style blade for point-of-origin control of radiant heat in a ventilation system. ITG-CRD installs in the ceiling membrane for floor/ceiling or roof/ceiling assemblies with a fire resistance rating up to and including 3 hours.

Features:

- UL and cUL listed and exceeds UL 555C for use in 3-hour fire rated assemblies
- Warnock-Hersey certified for use in fire rated floor/ ceiling or roof/ceiling assemblies
- Available for use with Delta Breez ITG Series ventilation fans







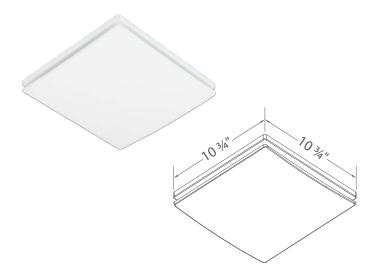


Delta BreezIntegrity SLM-DGL (Designer Grille)

The SLM-DGL designer fan grille is offered as an alternative to the standard grille on Delta Breez ITG50, ITG70BT, ITG80, and ITG80H

Features:

- Size: 10 3/4" x 10 3/4"
- Accessories fans in Delta BreezSignature series
- Adds modern aesthetic to bathroom
- Made of long lasting ABS material
- Attaches directly to fan housing with torsion springs



| | Delta Breez | Market AC Motor |
|---|-------------|-----------------|
| Energy Use (Watts) | 9.5 | 52.0 |
| Noise Level (Sones) | 1.3 | 6.0 |
| Annual Energy Cost per Fan (24/7) ¹ | \$9.99 | \$54.66 |

1 Calculations based upon U.S. average retail electricity. Actual results may vary



Delta BreezRecessed

Delta BreezRecessed incorporates brushless DC motor fan technology into an LED recessed can light for the ultimate in design and performance.

Features:

- ENERGY STAR qualified
- Brushless DC motor lasts 70,000 hours for extended reliability
- Warm, white LED main light at 2700K, 1000 lumens
- Quiet Operation at 1.5 Sones

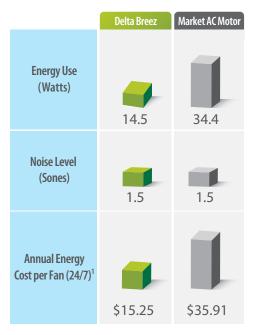
Fan/LED Light:

- 11-Watt LED main light included
- 2-Watt LED night light included



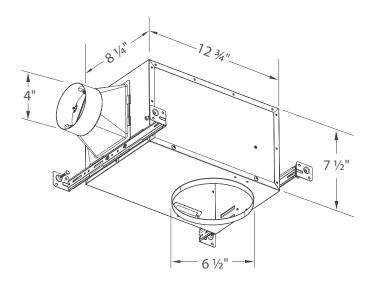


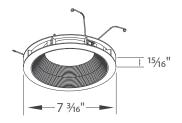




1 Calculations based upon U.S. average retail electricity. Actual results may vary







Specifications

| REC80LED - 80 CFM Fan/LED Lig |
|-------------------------------|
|-------------------------------|

| REC80LED - 80 CFM Fan/LED Light | | QLED |
|---------------------------------|----------|-------------|
| Static Pressure (Inches w.g.) | 0.1 | 0.25 |
| Air Flow (CFM) | 80 | 71 |
| Sones | 1.5 | 2.0 |
| Power Consumption (Watts) | 14.5 | 14.5 |
| Energy Efficiency (CFM/Watts) | 5.9 | 5.2 |
| Current (Amps) | 0.34 Max | |
| Power Rating (V/Hz) | 120/60 | |
| LED Main Light (Watts) | 11 | |
| LED Night Light (Watts) | 2 | |



Delta BreezProfessional

The Delta BreezProfessional Pro200 and Pro300 offer powerful airflow extraction for heavier applications but with quiet operation. It is ENERGY STAR qualified with brushless DC motor engineered to run continuously for a minimum 70,000 hours. These fans feature an LED indicator running light and motor lock protection and is UL/cUL listed for use over a bathtub or shower when installed in a GFCI protected branch circuit.

Features:

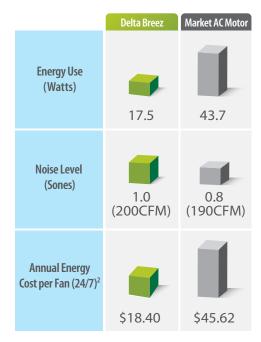
- DC motor technology, energy saving up to 60% ¹
- Galvanized steel body
- Detachable 6" diameter metal duct adapter
- Built-in backdraft damper
- LED indicator light green when power is on





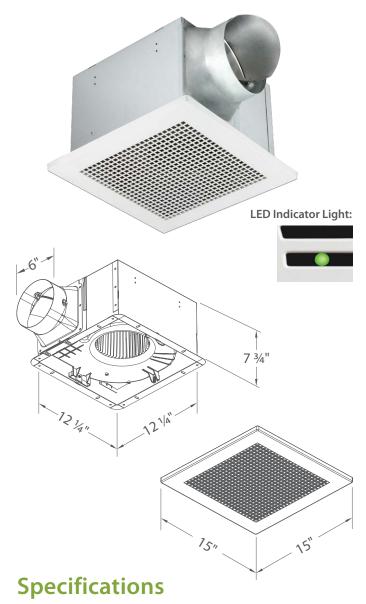






1 Based upon Breez Pro200 vs. Market AC motor

2 Calculations based upon U.S. average retail electricity. Actual results may vary



Pro200* - 200 CFM Fan

| Static Pressure (Inches w.g.) | 0.1 | 0.25 |
|-------------------------------|----------|------|
| Air Flow (CFM) | 200 | 163 |
| Sones | 1.0 | 1.3 |
| Power Consumption (Watts) | 17.5 | 21.5 |
| Energy Efficiency (CFM/Watts) | 11.4 | 7.5 |
| Current (Amps) | 0.52 Max | |
| Power Rating (V/Hz) | 120/60 | |

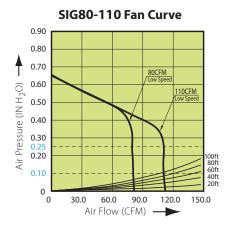
Pro300 - 300 CFM Fan

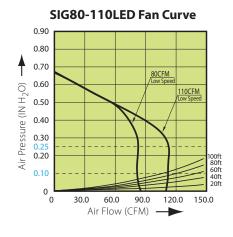
| Static Pressure (Inches w.g.) | 0.1 | 0.25 |
|-------------------------------|----------|------|
| Air Flow (CFM) | 300 | 268 |
| , , | 511 | |
| Sones | 2.0 | 2.5 |
| Power Consumption (Watts) | 41 | 43 |
| Energy Efficiency (CFM/Watts) | 7.3 | 6.2 |
| Current (Amps) | 0.72 Max | |
| Power Rating (V/Hz) | 120/60 | |

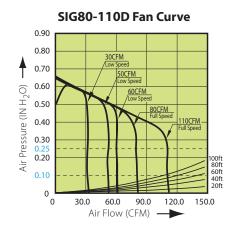
^{*} Product is ENERGY STAR Most Efficient 2017 distinction and ENERGY STAR qualified

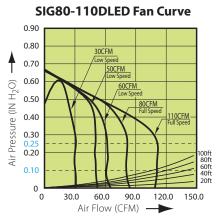
Delta Breez Fan Curves

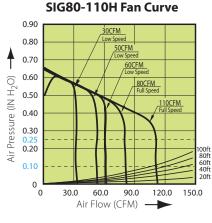
BreezSignature Fan Curves

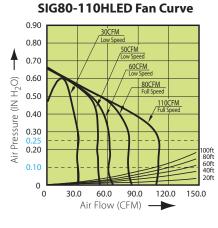


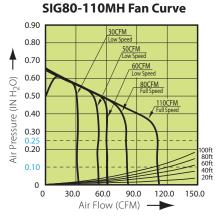


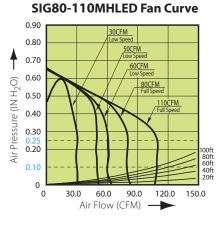


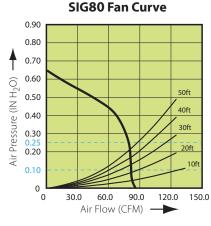


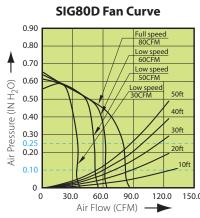


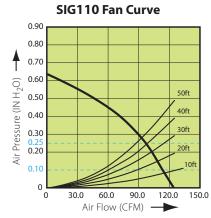


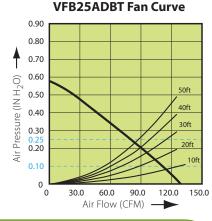






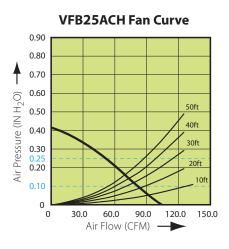


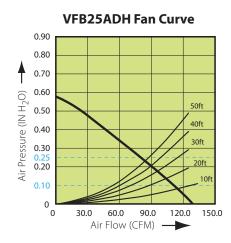


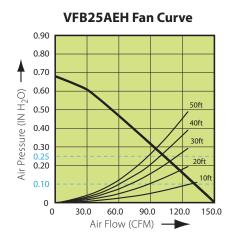


Delta Breez Fan Curves

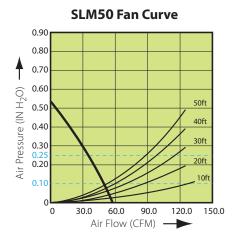
BreezSignature Fan Curves

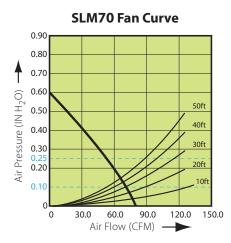


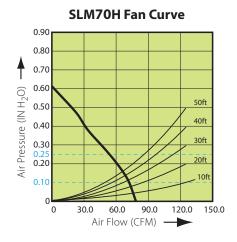


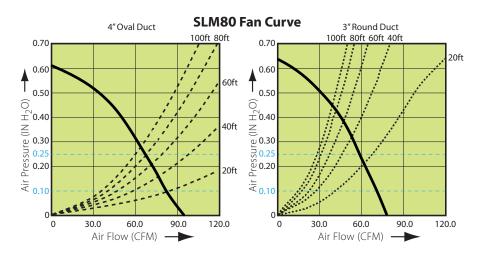


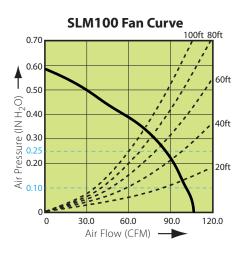
BreezSlim Fan Curves



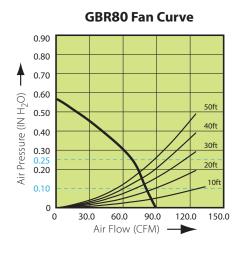


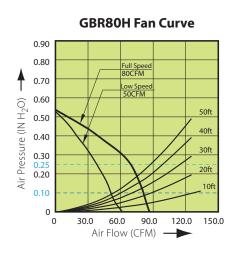


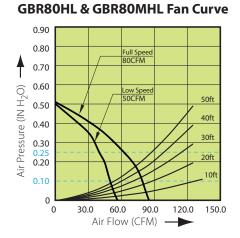


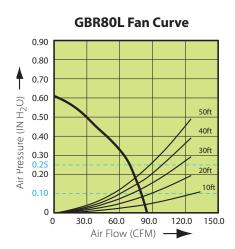


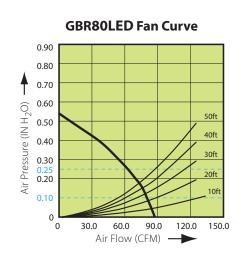
BreezGreenBuilder Fan Curves

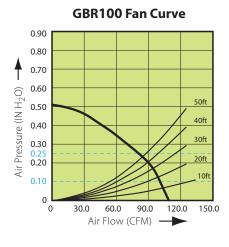


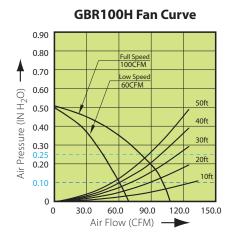


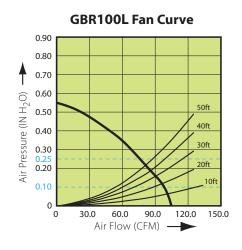


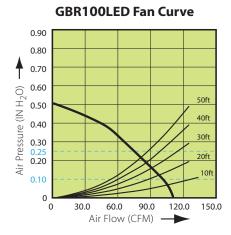








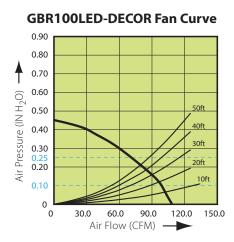


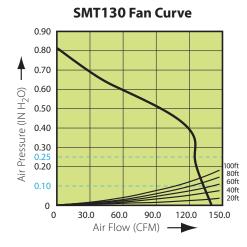


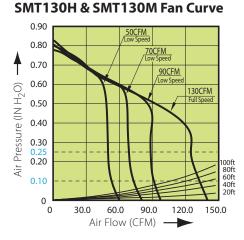
Delta Breez Fan Curves

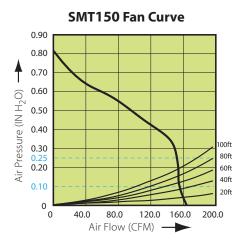
BreezGreenBuilder Fan Curves

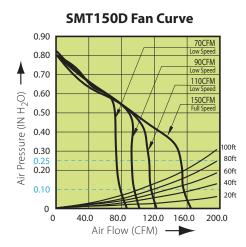
BreezSmart Fan Curves

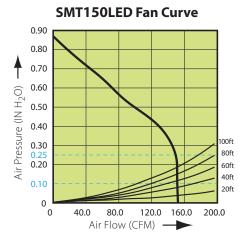






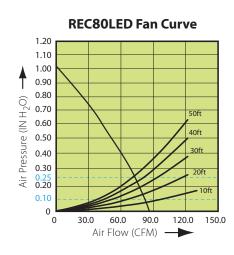


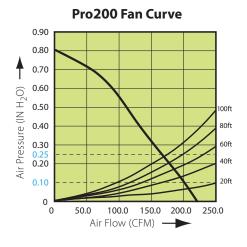


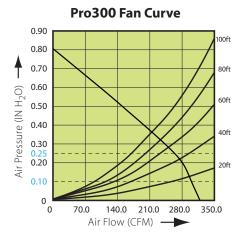


BreezRecessed Fan Curves

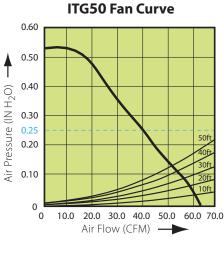
BreezPro Fan Curve

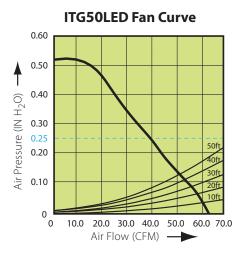


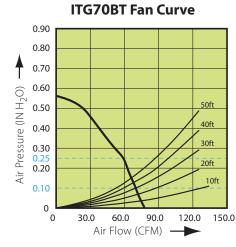


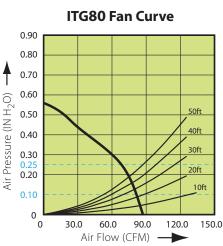


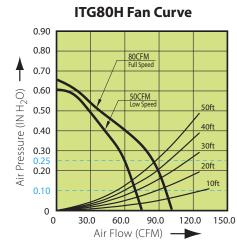
BreezIntegrity Fan Curves

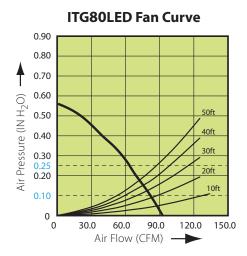




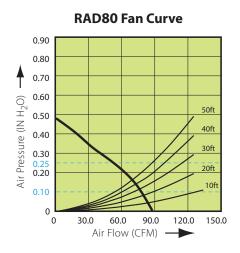


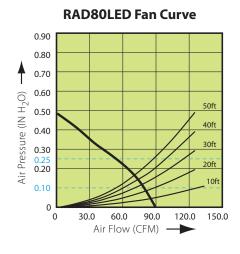


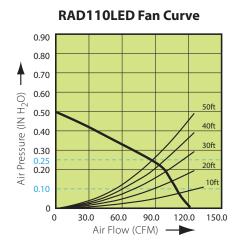




BreezRadiance Fan Curve







Which Fan is Most Suitable to Your Needs? The proof of Delta's commitment to green is

| | Model # | Air Flow (CFM) | Duct Size | Description | | Motor |
|--------------|--------------------|-------------------|------------------|---|--------------------|----------|
| | SIG80-110 | 80-110 | 4" | Single Speed | | DC |
| | SIG80-110LED | 80-110 | 4" | Fan/LED Light/Night-Light | LED | DC |
| | SIG80-110D | 80-110 | 4" | Fan with Dual Speed | | DC |
| | SIG80-110DLED | 80-110 | 4" | Fan/LED Light/Night-Light with Dual Speed | LED | DC |
| | SIG80-110H | 80-110 | 4" | Fan with Humidity Sensor | • | DC |
| Signature | SIG80-110HLED | 80-110 | 4" | Fan/LED Light/Night-Light with Humidity Sensor | LED 4 | DC |
| | SIG80-110MH | 80-110 | 4" | Fan with Motion & Humidity Dual Sensor | ☆ ♣ | DC |
| | SIG80-110MHLED | 80-110 | 4" | Fan/LED Light/Night-Light Motion & Humidity Dual Se | ensor LED 大 | DC |
| | SIG80 | 80 | 4" | Single Speed | | DC |
| | SIG80D | 80 | 4" | Fan with Dual Speed | | DC |
| | SIG110 | 110 | 4" | Single Speed | | DC |
| | VFB25ADBT | 110 | 4" | Fan with Bluetooth® | Bluetoot | h° DC |
| | VFB25ACH | 80 | 4" | Fan with Humidity Sensor | 4 | DC |
| | VFB25ADH | 110 | 4" | Fan with Humidity Sensor | | DC |
| | VFB25AEH | 130 | 4" | Fan with Humidity Sensor | | DC |
| | SLM50 | 50 | 3" | <u> </u> | | DC |
| Slim | | | 3″ | Single Speed | | |
| | SLM70 SLM70H | 70 70 | 3″ | Single Speed | • | DC |
| SIIM | SLM80 | 80 | 4" Oval/3" Round | Fan with Humidity Sensor Single Speed | • | DC DC |
| | SLM100 | 100 | 4" Oval | Single Speed | | DC |
| | | | | | | |
| | GBR80 | 80 | 4" | Single Speed | | DC |
| | GBR80H | 80 | 4" | Fan with Humidity Sensor | | DC |
| | GBR80HL | 80 | 4" | Fan/Light with Humidity Sensor | | DC |
| | GBR80L | 80 | 4" | Fan/Light | ¥ | DC |
| | GBR80LED | 80 | 4" | Fan/LED Light | LED | DC |
| GreenBuilder | GBR80MHL GBR100 | 80 | 4" 4" | Fan/Light with Humidity & Motion Sensor | * 大· | DC DC |
| | GBR100H | 100 | 4" | Single Speed Fan with Humidity Sensor | • | DC |
| | GBR100H | 100 | 4" | Fan/Light | • | DC |
| | GBR100LED | 100 | 4" | Fan/LED Light | LED | DC |
| | GBR100LED-DECOR | | 4" | Fan/LED Light Decor | LED | DC |
| | | | | Ţ | \$LED | |
| | SMT130 | 130 | 6" | Single Speed | | DC |
| | SMT130M | 130 | 6" | Fan with Motion Sensor | 大 | DC |
| Smart | SMT130H | 130 | 6" | Fan with Humidity Sensor | • | DC |
| | SMT150 | 150 | 6" | Single Speed | | DC |
| | SMT150D | 150 | 6" | Fan with Dual Speed | | DC |
| | SMT150LED | 150 | 6" | Fan/LED Light | \$LED | DC |
| | RAD80 | 80 | 4" | Fan with Heater | (111) | DC |
| Radiance | RAD80LED | 80 | 4" | Fan/LED Light with Heater | LED W | DC |
| | RAD110LED | 110 | 4" | Fan/LED Light with Heater | LED W | DC |
| | Pro200 | 200 | 6" | Single Speed | | DC |
| Professional | Pro300 | 300 | 6" | Single Speed | | DC |
| | | | | 3 . | | |
| | ITG50 | 50 | 4" | Single Speed | | DC |
| | ITG50LED | 50 | 4" | Fan/LED Light | LED | DC |
| Integrity | ITG70BT | 70 | 4" | Fan with Bluetooth® | Bluetooth* | DC |
| | ITG80 | 80 | 4" | Single Speed | | DC |
| | ITG80H | 80 | 4" | Fan with humidity Sensor | * | DC |
| | ITG80LED | 80 | 4" | Fan/LED Light | LED | DC |
| Donne | | | | ű | | |
| Recessed | REC80LED | 80 | 4" | Fan/LED Light | LED | DC |
| | | | | | | |





in the energy-saving, cost efficient operation of the entire Breez product line.

| Noise (Sones) | Energy Use (Watts) | Energy Efficiency (CFM/Watts) | Electric Bill ¹ | ENERGY STAR | Most Efficient 2017 ENERGYSTAR www.energystar.gov | ASHRAE 62.2 Intermittent | ASHRAE 62.2 Econtembris Continuous |
|----------------------|-----------------------|----------------------------------|-------------------------------|-------------|---|--------------------------|-------------------------------------|
| < 0.3 | 8.2 | 15.3 | \$8.63 | Υ | Υ | Υ | Υ |
| < 0.3 | 9.7 | 12.7 | \$10.20 | Υ | Υ | Υ | Υ |
| < 0.3 | 8.2 | 15.3 | \$8.63 | Υ | Υ | Υ | Y |
| < 0.3 | 9.7 | 12.7 | \$10.20 | Υ | Υ | Υ | Υ |
| < 0.3 | 8.2 | 15.3 | \$8.63 | Υ | Υ | Υ | Υ |
| < 0.3 | 9.7 | 12.7 | \$10.20 | Υ | Υ | Υ | Υ |
| < 0.3 | 8.2 | 15.3 | \$8.3 | Υ | Υ | Υ | Υ |
| < 0.3 | 9.7 | 12.7 | \$10.20 | Υ | Υ | Υ | Υ |
| < 0.3 | 8.7 | 9.7 | \$9.15 | Υ | | Υ | Υ |
| < 0.3 | 8.7 | 9.7 | \$9.15 | Υ | | Υ | Υ |
| < 0.3 | 13.6 | 9.0 | \$14.31 | Υ | | Υ | Υ |
| 1.0 | 14.2 | 7.7 | \$14.94 | Υ | | Υ | Υ |
| < 0.3 | 7.2 | 11.0 | \$7.57 | Υ | Υ | Υ | Y |
| 1.0 | 14.2 | 7.7 | \$14.93 | Υ | | Υ | Υ |
| 2.0 | 22 | 6.7 | \$23.13 | Υ | | Υ | Υ |
| 1.0 | 6.4 | 11.6 | \$6.73 | Υ | Υ | | Υ |
| 2.0 | 13.2 | 5.8 | \$13.88 | Υ | | Υ | |
| 2.0 | 13.2 | 5.8 | \$13.88 | Υ | | Υ | |
| 0.6 | 8.5 | 9.4 | \$8.94 | Υ | | Υ | Υ |
| 1.0 | 14.5 | 6.8 | \$15.25 | Y | | Υ | Υ |
| 0.8 | 10.5 | 7.6 | \$10.95 | Υ | | Υ | Υ |
| 0.8 | 9.7 | 8.2 | \$10.20 | Ϋ́ | | Y | Y |
| 0.8 | 11.5 (Fan only) | 6.9 | \$12.10 | Y | | Y | Y |
| 0.8 | 11.0 (Fan only) | 7.2 | \$11.57 | Υ | | Υ | Υ |
| 0.8 | 11.0 (Fan only) | 7.2 | \$11.57 | Υ | | Υ | Υ |
| 0.8 | 11.5 (Fan only) | 6.9 | \$12.10 | Υ | | Υ | Y |
| 1.4 | 12.6 | 7.9 | \$13.15 | Υ | | Υ | |
| 1.4 | 12.6 | 7.9 | \$13.15 | Y | | Y | Υ |
| 1.4 | 13.9 (Fan only) | 7.1 | \$14.62 | Υ | | Y | |
| 1.5 | 13.6 (Fan only) | 7.3 | \$14.31 | Υ | | Υ | |
| 1.5 | 13 (Fan only) | 7.6 | \$14.50 | Υ | | Υ | |
| < 0.3 | 11.6 | 11.2 | \$12.10 | Υ | Υ | Υ | Υ |
| < 0.3 | 11.6 | 11.2 | \$12.10 | Υ | Y | Υ | Υ |
| <0.3 | 11.6 | 11.2 | \$12.10 | Υ | Υ | Y | Y |
| <0.3 | 16.9 | 8.8 | \$17.63 | Y | | Y | Y |
| <0.3 | 16.9 | 8.8 | \$17.63 | Υ | | Υ | Y |
| 0.5 | 17.6 (Fan Only) | 8.5 | \$18.50 | Υ | | Υ | Υ |
| 1.5 | 10.5 | 7.6 | \$11.05 | | | Υ | Υ |
| 1.5 | 10.5 | 7.6 | \$11.05 | | | Υ | Υ |
| 0.7 | 12.0 | 9.2 | \$12.62 | | | Υ | Υ |
| 1.0 | 17.5 | 11.4 | \$18.39 | Υ | Υ | Υ | Υ |
| 2.0 | 41 | 7.3 | \$43.09 | Υ | | Υ | |
| 0.7 | 5.0 | 12.5 | \$5.26 | Υ | | | Υ |
| 0.7 | 5.0 | 12.5 | \$5.26 | Y | | | Y |
| 1.0 | 8.4 | 8.3 | \$8.83 | Y | | Υ | Y |
| 1.3 | 9.5 | 8.4 | \$9.98 | Y | | Y | I |
| 1.5 | 9.5 | 9.0 | \$9.98 | Υ Υ | | Y | |
| 1.3 | 11.3 | | \$10.51 | Υ Y | | Y | |
| | | 7.2 | | | | | |
| 1.5 | 14.5 (Fan only) | 5.9 | \$15.25 | Υ | | Υ | |







The Right Fan for Any Ventilation Need

This quick guideline chart will help you match the correct bath fan size for your room size and type. HVI recommends the following intermittent ventilation rates for bathrooms:

| Bathroom Size | Calculation Formula | Ventilation Rate Required |
|--|---|---|
| Less than 100 sqft More than 100 sqft | 1 CFM per sq ft of floor area Add the CFM requirement for each fixture | A minimum of 50 CFM Toilet 50 CFM Shower 50 CFM Bathtub 50 CFM Jetted Tub 100 CFM |

Reference: www.hvi.org/publications/HowMuchVent.cfm



Equivalent Duct Lengths

This chart shows Equivalent Duct Lengths (EDL) for BreezSignature, BreezSlim, BreezGreenBuilder, BreezSmart, BreezRadiance, BreezProfessional, BreezIntegrity, and BreezRecessed models by CFM (airflow) output for duct lengths from 40ft to 100ft.

| | | | 5 | | 100 | 0.05 | 1005 |
|--------------|--|--|------------------|--------------------|--------------------|--------------------|--------------------|
| | Breez Models | ` ' | Duct Size | 40ft | 60ft | 80ft | 100ft |
| | SIG80-110 (80-110 CFM) | Single Speed | 6" | 110 CFM | 110 CFM | 110 CFM | 110 CFM |
| | SIG80-110LED (80-110 CFM) | Fan/LED Light/Night-Light | 6" | 110 CFM | 110 CFM | 110 CFM | 110 CFM |
| | SIG80-110D (80-110 CFM) | Fan with Dual Speed | 6" | 110 CFM | 110 CFM | 110 CFM | 110 CFM |
| | SIG80-110DLED (80-110 CFM) | Fan/LED Light/Night-Light with Dual Speed | 6" | 110 CFM | 110 CFM | 110 CFM | 110 CFM |
| | SIG80-110H (80-110 CFM) | Fan with Humidity Sensor | 6" | 110 CFM | 110 CFM | 110 CFM | 110 CFM |
| | SIG80-110HLED (80-110 CFM) SIG80-110MH (80-110 CFM) | Fan/LED Light/Night-Light w/ Humidity Sensor Fan with Motion & Humidity Dual Sensor | 6" 6" | 110 CFM 110 CFM | 110 CFM 110 CFM | 110 CFM 110 CFM | 110 CFM 110 CFM |
| Signature | | Fan/LED Light/Night-Light w/ | | | | | |
| | SIG80-110MHLED (80-110 CFM) | Motion & Humidity Dual Sensor | 6" | 110 CFM | 110 CFM | 110 CFM | 110 CFM |
| | SIG80 (80 CFM) | Single Speed | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | SIG80D (80 CFM) | Fan with Dual Speed | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | SIG110 (110 CFM) | Single Speed | 4" | 90 CFM | 90 CFM | 80 CFM | 80 CFM |
| | VFB25ADBT (110 CFM) | Fan with Bluetooth® | 4" | 90 CFM | 80 CFM | 70 CFM | 70 CFM |
| | VFB25ACH (80 CFM) | Fan with Humidity Sensor | 4" | 70 CFM | 70 CFM | 60 CFM | 50 CFM |
| | VFB25ADH (110 CFM) | Fan with Humidity Sensor | 4" | 90 CFM | 80 CFM | 70 CFM | 70 CFM |
| | VFB25AEH (130 CFM) | Fan with Humidity Sensor | 4" | 100 CFM | 90 CFM | 90 CFM | 80 CFM |
| | SLM50 (50 CFM) | Single Speed | 3" | 40 CFM | 30 CFM | 30 CFM | 30 CFM |
| | SLM70 (70 CFM) | Single Speed | 3" | 50 CFM | 40 CFM | 30 CFM | 30 CFM |
| Clim | SLM70H (70 CFM) | Fan with Humidity Sensor | 3" | 50 CFM | 40 CFM | 30 CFM | 30 CFM |
| Slim | CLMOO (OC CEAN) | 6: 1.6 | 3" | 50 CFM | 40 CFM | 40 CFM | 30 CFM |
| | SLM80 (80 CFM) | Single Speed | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | SLM100 (100 CFM) | Single Speed | 4" | 90 CFM | 80 CFM | 70 CFM | 70 CFM |
| | GBR80 (80 CFM) | Single Speed | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | GBR80H (80 CFM) | Multi-Speed with Humidity Sensor | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | GBR80HL (80 CFM) | Fan/Light with Humidity Sensor | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | GBR80L (80 CFM) | Fan/Light | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | GBR80LED (80 CFM) | Fan/LED Light | 4" | 70 CFM | 60 CFM | 60 CFM | 60 CFM |
| GreenBuilder | GBR80MHL (80 CFM) | Fan/Light with Humidity & Motion Sensor | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | GBR100 (100 CFM) | Single Speed | 4" | 80 CFM | 70 CFM | 70 CFM | 60 CFM |
| | GBR100H (100 CFM) | Fan with Humidity Sensor | 4" | 80 CFM | 70 CFM | 70 CFM | 60 CFM |
| | GBR100L (100 CFM) | Fan/Light | 4" | 80 CFM | 70 CFM | 70 CFM | 60 CFM |
| | GBR100LED (100 CFM) | Fan/LED Light | 4" | 80 CFM | 70 CFM | 70 CFM | 60 CFM |
| | GBR100LED-DECOR (100 CFM) | Fan/LED Light Decor | 4" | 80 CFM | 70 CFM | 60 CFM | 60 CFM |
| | SMT130 (130 CFM) | Single Speed | 6" | 130 CFM | 130 CFM | 120 CFM | 120 CFM |
| | SMT130H (130 CFM) | Multi-Speed with Humidity Sensor | 6" | 130 CFM | 130 CFM | 120 CFM | 120 CFM |
| | SMT130M (130 CFM) | Multi-Speed with Motion Sensor | 6" | 130 CFM | 130 CFM | 120 CFM | 120 CFM |
| Smart | SMT150 (150 CFM) | Single Speed | 6" | 150 CFM | 150 CFM | 140 CFM | 140 CFM |
| | SMT150D (150 CFM) | Dual Speed | 6" | 150 CFM | 150 CFM | 140 CFM | 140 CFM |
| | SMT150LED (150 CFM) | Fan/LED Light | 6" | 150 CFM | 150 CFM | 150 CFM | 150 CFM |
| | , in the second | Fan with Heater | | 70 CFM | | 60 CFM | 50 CFM |
| Radiance | RAD80 (80 CFM) | | 4" | 70 CFM 70 CFM | 60 CFM 60 CFM | 60 CFM | 50 CFM |
| Radiance | RAD80LED (80 CFM) | Fan/LED Light with Heater | | | | | |
| | RAD110LED (110 CFM) | Fan/LED Light with Heater | 4" | 90 CFM | 80 CFM | 70 CFM | 70 CFM |
| Professional | Pro200 (200 CFM) | Single Speed | 4" | 190 CFM | 180 CFM | 170 CFM | 170 CFM |
| Troicssional | Pro300 (300 CFM) | Single Speed | 4" | 270 CFM | 250 CFM | 230 CFM | 210 CFM |
| | ITG50 (50 CFM) | Single Speed | 4" | 50 CFM | 40 CFM | 40 CFM | 40 CFM |
| | ITG50LED (50 CFM) | Fan/LED Light | 4" | 50 CFM | 40 CFM | 40 CFM | 40 CFM |
| Intogrity | ITG70BT (70 CFM) | Fan with Bluetooth® | 4" | 60 CFM | 60 CFM | 50 CFM | 50 CFM |
| Integrity | ITG80 (80 CFM) | Single Speed | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | ITG80H (80 CFM) | Fan with Humidity Sensor | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| | ITG80LED (80 CFM) | Fan/LED Light | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| Recessed | REC80LED (80 CFM) | Fan/LED Light | 4" | 70 CFM | 70 CFM | 60 CFM | 60 CFM |
| necesseu - | NECOULLY (OU CTIVI) | Tan/LLD Light | 4 | 7 U CI IVI | 70 (1111 | OU CLIM | OU CLIVI |

Frequently Asked Questions

Who is Delta Group?

Delta Group is the world's largest manufacturer of brushless DC motor fans and a leading provider of switching power supplies – a \$7.5 billion global company with 38 manufacturing facilities, 60 R&D Centers and 153 Sales Offices worldwide and U.S. headquarters in Fremont, CA. Our company mission is "To provide innovative, clean and energy-efficient solutions for a better tomorrow" supported by a product portfolio that features a range of energy efficiency solutions including ventilation fans, small wind energy systems, solar panels, LED lighting, EV chargers, Industrial Automation products and Display Solution products. Delta's operations are ISO-9001, ISO-14001, ISO-14064, OHSAS-18001 and TS-16949 certified. Delta brushless DC motor fans are used in applications where precision is paramount. This includes consumer electronics products such as laptops, desktops, tablets and gaming systems from leading manufacturers.

Please visit our global website **www.deltaww.com** for a more comprehensive look at Delta operations, products and capabilities

Why is a brushless DC motor better than an AC motor? Does it require any special installation or wiring?

Delta brushless DC motor exhaust fans use are engineered to run 70% longer and consume 74% less power than AC motor exhaust fans, which reduces replacement costs and saves on utility bills. No mechanical brushing means more quiet operation and less wear on motor components. Delta Breez fans have been tested to run continuously for a minimum 70,000 hours.

No special wiring is needed; there is a transformer built into the fan that automatically switches the power supply from AC to DC.

Delta's DC Breez ventilation fans are installed just like any AC motor fans.

What is Soft Start Function?

In the first 10 seconds the fan is powered on, the motor will softly and quickly ramp up to full speed. This is unlike an AC Motor, which simply jump-starts the fan. This quiet 'soft start' process helps reduce the wear on motor bearings to prolong fan life.

What is Lock Protection Function?

This unique function allows all Delta Breez ventilation fans to automatically power off when the impeller is locked abnormally. For example: when a buildup of dirt and dust accumulates in the fan. The fan will attempt to restart itself in 5-10 seconds. If the impeller is still blocked, the fan will remain off. This helps avoid the issue of over-heating or motor burnout, and helps to prevent potential fire risks.

What is the purpose of the LED indicator light underneath the fan grille?

The light indicates to the user that the quiet fan is operating. If the fan has different functions available i.e. humidity sensing, low speed, motion sensing, the light will change color indicating what mode the fan is in. The light will blink if the impeller gets obstructed, telling the user that the fan is not operating properly.

What are CFM and Sones?

CFM and Sones are how bath fans are generally compared CFM (Cubic Feet per Minute) is speed of 'air flow' – the amount of air extracted per minute when the fan is running. The amount of CFM needed is generally related to the size of the area ventilated. Please see the sizing guidelines.

Sone level is how loud the fan is to the human ear. Doubling the sone value means doubling the noise. The average 80 CFM bath fan runs at 0.8~2.5 Sones. Delta Breez 80 CFM fans run as low as <0.3 Sones. At less than 0.3 Sones, the fan is virtually silent. This is the lowest noise rating of any exhaust fan available in the market. For reference, 1.0 Sone is about as loud as a new computer or refrigerator.

For more information, visit http://www.hvi.org/videos/

How do I determine which bath fan I need – features and size?

Bathroom Ventilation

The following are Home Ventilating Institute (HVI) guidelines for ventilating both large and smaller bathrooms using intermittent or continuous ventilation.

Small rooms:

For bathrooms up to 100 square feet in area, HVI recommends that an exhaust fan provide 1 CFM per square foot (approximately eight air changes per hour) to properly ventilate the bathroom.

Example:

- Bathroom is 8' x 5' (with 8' ceilings)
 Multiply 8 x 5 = 40 ft.
- Bathroom area is 40 ft.
- At 1 CFM per square foot the minimum recommendation is a fan rated at 40 CFM

Larger rooms:

For bathrooms above 100 square feet in area, HVI recommends a ventilation rate based on the number and type of fixtures present, according to the following table:

Toilet 50 CFM Shower 50 CFM Bath Tub 50 CFM Jetted Tub 100 CFM

Note: Enclosed toilet rooms must have an operable window or a fan for ventilation

Example:

The bathroom is 20' x 12'. There is a tub (without jets), a shower enclosure and an enclosed toilet.

Each fixture requires 50 CFM:

Tub 50 CFM
Shower 50 CFM
Toilet 50 CFM
Total 150 CFM

Data source: http://www.hvi.org/publications/bathroom_ventilation.cfm Or you can visit http://www.hvi.org/videos/

How does the Humidity Sensor function operate?

The fan runs at full speed until the user-adjustable humidity set-point is achieved, then automatically switches to the user set low speed for continuous run or off. The amber or blue color of LED indicator light underneath the grille indicates humidity sensing mode or continuous low speed mode. Please consult the Installation & Operating Instruction manual for a particular fan model for more specific information.

How does the Motion Sensor function operate?

When motion is detected, fan comes on at full speed. When user leaves the room, the fan will remain running at full speed until user-preset delay time has passed. Then the fan will automatically drop down to the pre-set low speed for continuous run or off. The green or amber color of LED indicator light underneath the grille indicates continuous low speed or full speed mode. Please consult the Installation and Operating Instruction manual for a particular fan model for more specific information.

Can I keep the housing of my old fan (non Delta fan) and just replace the fan motor with Breez?

No. For proper performance, it is recommended that Delta Breez fan motors be used only with Delta Breez fan housing.

Can I use a timer with the Delta Breez fan?

Many Delta Breez models have built-in adjustable delay timers, so no external timer is needed. External timers can be used in conjunction with single-speed models only. Because Breez fans run on much lower wattage than other market ventilation fans, please contact Delta Breez customer service for a list of single-speed models and consult with a licensed electrician for compatibility.

Do you sell switches or timers?

No. Delta does not manufacture switches or timers but these components are readily available in most major home improvement retailers or through your local contractor or supplier.

Can the Delta Breez Fan/Light be installed with insulation around it?

Yes. All Delta Breez fans are UL approved. Here is UL's testing protocol:

For Fan/lights, UL requires 8.5 inches of insulation on all sides (including top) of the product. Insulation shall be of the loose fill type and should have a thermal resistance per inch between 3.75-3.85 R (declared by the manufacturer) when conditioned to a density of 32.04 - 40.05 kg/m3. This scenario is equivalent to an approximate R value of R32. R40 is the max for Canadian installations.

For a fan only, there is no insulation limitation for fan without lighting except in Canada where the max value is R40.

Can Delta fans be controlled by a voltage switch (RPM control)?

No.

What are the built-in control functions and how do they work?

Motion Sensing

Green and amber LED indicator lights will show continuous low speed and full speed modes. The fan will run continuously at a user-preset lower level of CFM. When motion is detected, fan will automatically change to full speed. When user leaves the room, the fan will remain running at full speed until user-preset delay time has passed; delay timer has adjustable preset positions of 0, 0.5, 5, 15, 30, 45 and 60 minutes. Fan will automatically drop down to low speed after the pre-set time has elapse.

Humidity Sensing

Blue and amber LED indicator lights to show humidity control and full speed modes. The fan will operate in full speed mode or humidity control mode by manual on and off switch. The adjustable humidity set points are from 50% to 90%. When in humidity control mode, and the humidity is above the user-adjustable set-point, fan will run at full speed. When the humidity is below the set-point, the fan runs continuously at a user-preset lower level of CFM.

Is it OK to exhaust into the attic?

No. The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) recommends exhausting only to the exterior of the home.

Can Delta fans be installed in a side wall?

All Delta BreezSlim models and BreezGreenBuilder fan only models are UL listed for both ceiling and wall-mount installation.

Can Delta fans be installed in a slanted ceiling?

No. Installation of any Delta fan in a slanted ceiling is not recommended.

Can I install the Exhaust Fan / Light in the shower or tub enclosure?

Yes. All Delta Breez Ventilation Fans except BreezRadiance due to the heating element are UL listed for use over the bathtub or shower when installed in a GFCI protected branch circuit.

Are Delta Breez fans ENERGY STAR qualified?

Yes. Most Delta Breez fans are ENERGY STAR qualified. The only exception is BreezRadiance series, which contain a powerful 1300 or 1500 Watts heating element for warmth and comfort.

Are Delta Breez fans ASHRAE 62.2-2010 compliant?

Yes. All Delta Breez fans are 62.2-2010 compliant for intermittent running. Most of the Delta Breez fan models are compliant for continuous running. Please see www.deltabreez.com, Learning Center for a complete listing.

Are Delta Breez fans UL listed and HVI certified?

Yes. All Delta Breez fans are UL listed and are HVI certified.

Do Delta Breez fans meet Title 24 requirements?

Yes. All Delta Breez fans meet current Title 24 requirements.



What is the Delta Breez Ventilation Fan Warranty?

All Delta Breez Ventilation Fans have a 3-Year limited warranty.

How do I reach technical and customer service?

Technical support: 888-979-9889

Email: BreezTechSupport@deltaww.com

Customer sales support: 877-685-4384 Email: BreezSalesSupport@deltaww.com





Learn more about the Breez Ventilation Fans, the ideal bathroom solution for green construction at:

www.deltabreez.com

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