

Panasonic

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VENTILATION & IAQ SOLUTIONS



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Design and specifications subject to change without notice.

VF14864CAT

Leading the Way with High Performance Ventilation Fans and Indoor Air Quality Solutions



The Undisputed LEADER

HIGH PERFORMANCE VENTILATION FANS AND INDOOR AIR QUALITY SOLUTIONS

For over two decades, Panasonic has delivered innovative, high performance ventilation solutions that have set new standards for quiet operation and energy efficiency.

Panasonic is the premier manufacturer of powerful, energy-efficient ventilation fans that quietly exhaust unhealthy, unpleasant or moist air from your home or business. Contractors, builders, architects and homeowners rely on us for our quality and for the wide array of solutions we offer—from bathroom fans with both motion and humidity sensors to remote in-line fans.

Panasonic is proud to be recognized by the EPA for the **fifth** consecutive year, earning their most prestigious ENERGY STAR® honor, the Sustained Excellence 2014 Award. Sustained excellence is precisely what we strive for as evidenced by our legacy of providing high performance, energy-efficient ventilation solutions. In fact, for over two decades—highlighted by industry-leading quiet fans, revolutionary DC Motor technology, and leading-edge LED lighting—we've continued to demonstrate outstanding leadership, year after year.

Panasonic has been in the ventilation business for over 100 years and is the largest manufacturer of ventilation equipment globally. Panasonic produces the highest quality, most efficient and environmentally friendly products available in the market today. We do this by designing, engineering and manufacturing in our own facilities. Panasonic is known around the world for offering the quietest ENERGY STAR® fans in the industry!

Panasonic Advanced Ventilation Solutions

A LEGACY OF INNOVATION

1993

WhisperCeiling
VENTILATION FAN

Quiet Solution

2003

WhisperFit
VENTILATION FAN

Retrofit Solution

2006

WhisperGreen
VENTILATION FAN

ASHRAE 62.2 Compliance Solution

WhisperValue
VENTILATION FAN

Multi-Family Solution

2007

WhisperComfort
VENTILATION FAN

Balanced Air Solution

2011

WhisperSense
VENTILATION FAN

CALGreen Compliance Solution

2012

WhisperRecessed
VENTILATION FAN

Design Solution

2013

WhisperGreen LED
VENTILATION FAN

Ultimate Energy Efficient Fan/Light Solution

2014

WhisperGreen Select
VENTILATION FAN

One Fan - Multiple IAQ Solutions Most Efficient 2014





Table of Contents

Panasonic Ventilation Fan Benefits	6-7
WhisperGreen Select	8-9
Fans with Built-in Controls	10-13
Single Speed Fans (On/Off)	14-17
Fan/Lights with Built-in Controls	18-19
Single Speed Fans with Lights (On/Off)	20-23
Specialty Fans	24-29
Accessories	30-39
Cross Reference for Applicable WhisperControl & EcoSwitch to Panasonic Fans	40-41

Useful Information:

Complete Specifications	42-57
Sizing Information and Instructions	58-59



Panasonic Ventilation Fan Benefits

Certified & Code Compliant

Panasonic ventilation fans are certified by the Home Ventilating Institute (HVI) and ENERGY STAR® qualified, where guidelines exist. All models can be used to comply with ASHRAE 62.2, the ventilation standard required by LEED for Homes, ENERGY STAR® IAP, CALGreen, NAHB Green Building Standard, EarthCraft, Washington Ventilation Code and other building programs.

Powerful & Quiet

Fully enclosed DC and AC condenser motors assure remarkable performance and quiet operation at industry standard, 0.25" w.g. static pressure (Installed Performance).

Long Life

Permanently lubricated motors are engineered for trouble-free, continuous operation for 30,000 hours on AC motors, along with rust-proof paint and galvanized housing.

Easy Installation

Integrated duct adapters, adjustable mounting brackets (up to 24" o.c.), fan/motor units that easily detach from the housing and uncomplicated wiring all lend to user-friendly installation. Double-hanger bar systems allow for ideal positioning. Flex-Z Fast™ bracket with articulating joints provides even more flexible, fast and easy installation on select models.

Energy Savings

When it comes to energy efficiency, our wattage requirements are among the lowest in the industry ensuring low cost operation.



★★★★ 5 YEARS IN A ROW

Safety

WhisperGreen Select™ models are protected by UL Class 2 Power Unit while all other models are equipped with thermal fuse protection. With the exception of the ERV and heater fans, all models are UL listed for tub/shower enclosure when used with a GFCI protected circuit.

Airflow

A built-in plastic or metal damper (depending on model #) in all ceiling-mounted models helps prevent backdraft. Built-in metal flange provides blocking for penetrations through drywall as an air barrier, and assists with the decrease in leakage in the building envelope during blower door testing.

Illumination

The fan/lights have ENERGY STAR® rated compact fluorescent lamps (CFLs) that can be used to comply with California Title 24, and have 10,000 hours of rated life. The CFL lighted models feature >70LPW, the highest Lumens Per Watt in the industry. A 4W night light is available on most models. Some models feature LED lighting that have 40,000 hours of rated life, along with a 1W LED night light.

Green Manufacturing

All fan only models are RoHS Approved. Restriction of Hazardous Substances Directive (RoHS) restricts the use of the following six substances in the manufacturing process: Lead, Mercury, Cadmium, Hexavalent chromium [CR(VI)], Polybrominated biphenyls (PBB), and Polybrominated diphenyl ether (PBDE).

Warranty

6-Year warranty on DC motor, 5-Year warranty on LED, 1 year on CFLs and 3-Year warranty on all other parts.

WhisperGreenSelect™
VENTILATION FAN

One Fan - Multiple IAQ Solutions

WhisperGreen Select™ is a ground-breaking IAQ solution that is revolutionizing the vent fan industry with a unique set of features that enable customization and easy installation.

A built-in **Pick-A-Flow™** speed selector provides the unique ability to select your required airflow (50-80-110 and 110-130-150 CFM models) with the simple flip of a switch.

A unique set of four patented **Plug 'N Play™** modules that allow you to further customize your fan.

Multi-Speed with Time Delay* (FV-VS15VK1)

Select the proper CFM settings to satisfy ASHRAE 62.2 continuous ventilation requirements. The fan runs continuously at a preset lower level (0, 30-100 or 0, 50-120 CFM, in 10 CFM increments), then elevates to a maximum level of operation (50-80-110 or 110-130-150 CFM) when the wall switch is turned on, or when the Motion Sensor or Condensation Sensor module is activated. A High/Low delay timer returns the fan to the preset CFM level after a period of time set by the user.

*Applies to both the pre-installed multi-speed with time delay, as well as the FV-VS15VK1 multi-speed with time delay Plug 'N Play module.

SmartAction® Motion Sensor (FV-MSVK1)

Automatically activates when someone enters the room. Once the settings have been applied, the fan becomes truly automatic. This module also activates a 20 minute delay off timer for the fan.

Condensation Sensor (FV-CSVK1)

Helps control bathroom condensation to prevent mold and mildew. Sensor technology detects relative humidity and temperature to anticipate dew point, automatically turning the fan on to control humidity. Built-in Relative Humidity (RH) sensitivity adjustment enables fine tuning for moist conditions and for satisfying CALGreen requirements. When the Condensation Sensor is used in conjunction with multi-speed functionality, the fan will ramp up to high speed when the Condensation Sensor detects moisture in the room. This module also activates a 20 minute delay off timer for the fan.

NiteGlo™ LED Night Light (FV-NLVK1)

A photocell automatically turns on the 1 watt LED night light when darkness is sensed in the room. High/Low brightness switch enables you to fine tune the photocell to work in conjunction with the darkness level of your bathroom. This module also activates an automatic 20 minute delay off timer for the fan.



NEW

WhisperGreen^{Select} VENTILATION FAN

FV-05-11VKS1 30 to 110 CFM 4" or 6" Duct



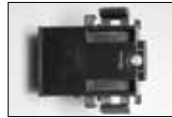
7-3/8"
Depth



Pre-installed Multi-Speed
with Time Delay



SmartAction[®] Motion Sensor*
(FV-MSVK1)



Condensation Sensor*
(FV-CSVK1)



NiteGlo[™] LED Night Light*
(FV-NLVK1)

**Optional Add-On Feature*

One Fan - Multiple IAQ Solutions

WhisperGreen Select Key Benefits:

- Customizable, all-in-one fan
- Pick-A-Flow[™] speed selector – one fan, you choose the CFM
- Pre-installed multi-speed control with high/low delay timer up to 60 minutes
- Plug 'N Play[™] modules provide up to **two** value added features (See page 8-9 for details)
- Revolutionary DC motor with SmartFlow[™] technology for optimum CFM output
- Flex-Z Fast[™] installation bracket provides flexible, fast and easy installation
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, CALGreen, California Title 24, WA Ventilation Code and ENERGY STAR[®] for Homes 3.0



WhisperSense[™] VENTILATION FAN

FV-08VQC5 80 CFM 4" or 6" Duct
FV-11VQC5 110 CFM 4" or 6" Duct



7-3/8"
Depth



Built-in Controls

Moisture Control for CALGreen Compliance Solution

WhisperSense Key Benefits:

- SmartAction[®] motion sensor automatically turns fan on when someone enters the room
- Humidity sensor detects rapid rise in relative humidity (RH) and automatically turns fan on to remove moisture to help prevent mold and mildew
- Dual sensor technology provides built-in redundancy that ensures proper fan operation.
- Adjustable time delay – 30 seconds to 60 minutes
- Auto shutoff feature helps eliminate unnecessary energy usage and further reduce operating costs
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, CALGreen and California Title 24



WhisperWelcome™ VENTILATION FAN

FV-05VFM2 50 CFM 4" or 3" Duct
FV-08VFM2 80 CFM 4" or 3" Duct



5-5/8"
Depth

Automatic Spot Ventilation Solution

WhisperWelcome Key Benefits:

- Low profile housing design – ideal for remodeling
- Built-in SmartAction® motion sensor automatically activates when the room is occupied
- Built-in delay timer turns off the fan after 20 minutes
- Provides flexibility for installation in 2 x 6 or larger construction
- Ideal for renovation since you can use the existing duct
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can comply with ASHRAE 62.2, LEED, ENERGY STAR® and California Title 24



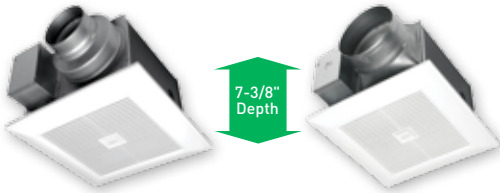
INCLUDED:
Detachable 4" to 3" Duct Adapter



NEW

WhisperGreen^{Select} VENTILATION FAN

FV-05-11VK1 50-80-110 CFM 4" or 6" Duct
FV-11-15VK1 110-130-150 CFM 6" Duct



Multi-Speed with Time Delay*
(FV-VS15VK1)



SmartAction[®] Motion Sensor*
(FV-MSVK1)

WhisperGreen Select Key Benefits:

- Customizable, all-in-one fan
- Pick-A-Flow[™] speed selector – one fan, you choose the CFM
- Plug 'N Play[™] modules provide up to three value added features [See page 8-9 for details]
- Revolutionary DC motor with SmartFlow[™] technology for optimum CFM output
- Flex-Z Fast[™] installation bracket provides flexible, fast and easy installation
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, CALGreen, California Title 24, WA Ventilation Code and ENERGY STAR[®] for Homes 3.0



Condensation Sensor*
(FV-CSVK1)



NiteGlo[™] LED Night Light*
(FV-NLVK1)

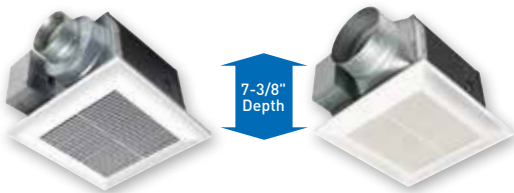
*Optional Add-On Feature



CALGreen

WhisperCeiling[™] VENTILATION FAN

FV-05VQ5 50 CFM 4" or 6" Duct
FV-08VQ5 80 CFM 4" or 6" Duct
FV-11VQ5 110 CFM 4" or 6" Duct
FV-15VQ5 150 CFM 6" Duct



Quiet, Spot Ventilation Solution

WhisperCeiling Key Benefits:

- Quiet, yet powerful – ideal for new and remodel residential applications
- Large volume (190-390) CFM options available for light commercial use [See page 26-27 for more details]
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, EarthCraft, California Title 24 and WA Ventilation Code



WhisperFit™

FV-08VF2 80 CFM 4" or 3" Duct
FV-11VF2 110 CFM 4" or 3" Duct



5-5/8"
Depth

Ideal Retrofit Solution

WhisperFit Key Benefits:

- Low profile housing design – ideal for remodeling projects and manufactured structured homes
- Fits in 2 x 6 or larger construction
- Additional hanger bars for easier retrofit installation
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code



INCLUDED:
Detachable 4" to 3" Duct Adapter



WhisperValue™

FV-05VS3 50 CFM 4" Oval Duct
FV-08VS3 80 CFM 4" Oval Duct
FV-10VS3 100 CFM 4" Oval Duct



3-3/8"
Depth

Lowest profile,
perfect fit
in a 2 x 4!

Ideal Multi-Family Solution

WhisperValue Key Benefits:

- Ideal for residential construction (single and multi-family) and manufactured homes
- 3-3/8" housing depth – lowest profile ENERGY STAR® fan available
- UL approved for ceiling or wall mount – perfect fit in a 2 x 4 stud bay
- Wall installation eliminates the need and cost for a radiation damper
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code

WhisperValue U-Can Contractor Pack*

The Contractor Pack includes four complete fans. The housing and motor/grille are packaged separately for flexibility during installation.

Universal Housing Can	Motor/Grille Assembly	Complete Fan Unit	Master Pack
FV-05-10VSA3	FV-05VSB3	FV-05VS3	4
FV-05-10VSA3	FV-08VSB3	FV-08VS3	4
FV-05-10VSA3	FV-10VSB3	FV-10VS3	4

*Must order in quantities of 4, shipment will contain 1 box with 4 units.



Fits in nearly every ceiling cavity.



Optional 4" Oval to 3" Round
Duct Adapter (Model #: FV-VS43R)

Transfer Register Box

FV-JD



Transfer Register Box (TRB) – Room to Room Solution

Key Benefits:

- Perfect for room-to-room powered circulation in Multi-family projects with ductless heat pumps
- Designed exclusively for use with WhisperValue™ fan and fan/light combinations
- Powered 60 CFM transfer at less than 0.3 sone (based on FV-05VS3 fan)
- 26 gauge steel, fire code rated accessory, sold separately as model #FV-JD
- No need for a radiation damper like on jump ducts
- Works with standard size HVAC registers – 4" x 10" HVAC supply grille
- Can be used to comply with ASHRAE 62.2, LEED for Homes, CALGreen and ENERGY STAR® for Homes 3.0*

*Specific to WhisperValue™ and WhisperValue Lite™ fans

NEW

WhisperGreen Select[™]

FV-05-11VKSL1 30 to 110 CFM 4" or 6" Duct



7-3/8" Depth

One Fan - Multiple IAQ Solutions

WhisperGreen Select Key Benefits:

- Customizable, all-in-one fan/LED light combination
- Pick-A-Flow[™] speed selector – one fan, you choose the CFM
- Pre-installed multi-speed control module with high/low delay timer up to 60 minutes
- Plug 'N Play[™] modules provide up to two value added features (See page 8-9 for details)
- Revolutionary DC motor with SmartFlow[™] technology for optimum CFM output
- Flex-Z Fast[™] installation bracket provides flexible, fast and easy installation
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, CALGreen, California Title 24, WA Ventilation Code and ENERGY STAR[®] for Homes 3.0



Pre-installed Multi-Speed with Time Delay



SmartAction[®] Motion Sensor* (FV-MSVK1)



Condensation Sensor* (FV-CSVK1)



NiteGlo[™] LED Night Light* (FV-NLVK1)

**Optional Add-On Feature*



INCLUDES: (2) replaceable, 7W ENERGY STAR[®] rated, GU24 base LED lamps. 3000 Kelvin/80+ CRI/ 550 Lumens per lamp/80 Lumens per watt/40,000 hours rated average life.



WhisperSense Lite[™]

FV-08VQCL6 80 CFM 4" or 6" Duct
FV-11VQCL6 110 CFM 4" or 6" Duct



7-3/8" Depth

Moisture Control for CALGreen Compliance Solution

WhisperSense Lite Key Benefits:

- SmartAction[®] motion sensor automatically turns fan on when someone enters the room
- Humidity sensor detects rapid rise in relative humidity (RH) and automatically turns fan on to remove moisture to help prevent mold and mildew
- Dual sensor technology provides built-in redundancy that ensures proper fan operation
- Adjustable time delay – 30 seconds to 60 minutes
- Auto shutoff feature helps eliminate unnecessary energy usage and further reduce operating costs
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, CALGreen, California Title 24 and WA Ventilation Code



INCLUDES: (2) 13W ENERGY STAR[®] rated self ballasted GU24 base CFL lamps and a 4W night light. 3500 Kelvin/80+ CRI/997 Lumens per lamp/75 Lumens per watt/10,000 hours rated average life at 3 hours per start.



Built-in Controls



NEW

WhisperGreen Select™

One Fan - Multiple IAQ Solutions

FV-05-11VKL1 50-80-110 CFM 4" or 6" Duct
FV-11-15VKL1 110-130-150 CFM 6" Duct



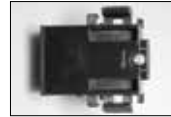
Multi-Speed with Time Delay*
(FV-VS15VK1)



SmartAction® Motion Sensor*
(FV-MSVK1)

WhisperGreen Select Key Benefits:

- Customizable, all-in-one fan/LED light combination
- Pick-A-Flow™ speed selector – one fan, you choose the CFM
- Plug 'N Play™ modules provide up to three value added features [See page 8-9 for details]
- Revolutionary DC motor with SmartFlow™ technology for optimum CFM output
- Flex-Z Fast™ installation bracket provides flexible, fast and easy installation
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, CALGreen, California Title 24, WA Ventilation Code and ENERGY STAR® for Homes 3.0



Condensation Sensor*
(FV-CSVK1)



NiteGlo™ LED Night Light*
(FV-NLVK1)

*Optional Add-On Feature



INCLUDES: (2) replaceable, 7W ENERGY STAR® rated, GU24 base LED lamps. 3000 Kelvin/80+ CRI/ 550 Lumens per lamp/80 Lumens per watt/40,000 hours rated average life.

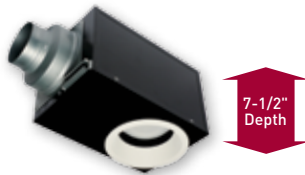


NEW

WhisperRecessed LED™

Design Solution for Fan/Light Combinations

FV-08VRE1 80 CFM 4" or 6" Duct



INCLUDED: (1) 14W ENERGY STAR® rated GU24 base LED lamp/ 3000 Kelvin/90+ CRI/575 Lumens/ 25,000 hours rated average life.

WhisperRecessed LED Key Benefits:

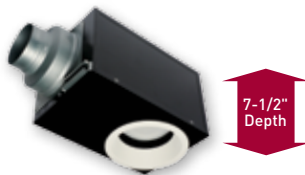
- Architectural grade recessed fan/light
- Ideal for use in the bathroom, living room or laundry room
- Quiet and powerful 80 CFM ventilation hidden above the ceiling
- Adjustable recessed light minimizes glare
- Beautiful lighting with 6-1/2" aperture and advanced luminaire design
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code



WhisperRecessed™

Design Solution for Fan/Light Combinations

FV-08VRL1 80 CFM 4" or 6" Duct



INCLUDED: (1) 18W GU24 base CFL/ 2700 Kelvin/80+ CRI/1380 Lumens/ 10,000 hours rated average life at 3 hours per start/integral electronic ballast for flicker-free operation.

WhisperRecessed Key Benefits:

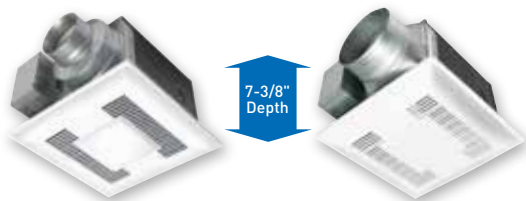
- Architectural grade recessed fan/light
- Ideal for use in the bathroom, living room or laundry room
- Quiet and powerful 80 CFM ventilation hidden above the ceiling
- Adjustable recessed light minimizes glare
- Beautiful lighting with 6-1/2" aperture and advanced luminaire design
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code



WhisperLite™

VENTILATION FAN

FV-08VQL6	80 CFM	4" or 6" Duct
FV-11VQL6	110 CFM	4" or 6" Duct
FV-15VQL6	150 CFM	6" Duct



INCLUDES: (2) 13W ENERGY STAR® rated self ballasted GU24 base CFL lamps and a 4W night light. 3500 Kelvin/80+ CRI/ 997 Lumens per lamp/75 Lumens per watt/10,000 hours rated average life at 3 hours per start.

Quiet, Spot Ventilation Fan/Light Solution

WhisperLite Key Benefits:

- Quiet, yet powerful – ideal for new and remodel residential applications
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code



WhisperFit Lite™

VENTILATION FAN

FV-05VFL4	50 CFM	4" or 3" Duct
FV-08VFL4	80 CFM	4" or 3" Duct
FV-11VFL4	110 CFM	4" or 3" Duct



(with 3" duct adapter)



INCLUDES: (2) 13W ENERGY STAR® rated self ballasted GU24 base CFL lamps and a 4W night light. 3500 Kelvin/80+ CRI/ 997 Lumens per lamp/75 Lumens per watt/10,000 hours rated average life at 3 hours per start.

Ideal Retrofit Solution

WhisperFit Lite Key Benefits:

- Low profile housing design – ideal for remodeling projects and manufactured structured homes
- Fits in 2 x 6 or larger construction
- Additional hanger bars for easier retrofit installation
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code



INCLUDES:
Detachable 4" to 3" Duct Adapter



WhisperValue Lite™

VENTILATION FAN

FV-08VSL3	80 CFM	4" Oval Duct
FV-10VSL3	100 CFM	4" Oval Duct



**Lowest profile,
perfect fit
in a 2 x 4!**

*Optional 4" oval to 3" round duct adapter (FV-VS43R) and Transfer Register Box (FV-JD) sold separately. See page 16-17 for details.



INCLUDES: (2) 13W ENERGY STAR® rated self ballasted GU24 base CFL lamps and a 4W night light. 3500 Kelvin/80+ CRI/ 997 Lumens per lamp/75 Lumens per watt/10,000 hours rated average life at 3 hours per start.

Ideal Multi-Family Solution

WhisperValue Lite Key Benefits*:

- Ideal for residential construction (single/multi-family) and manufactured homes
- L-shaped bracket simplifies installation and provides strong support
- UL approved for ceiling or wall mount – perfect fit in a 2 x 4 stud bay
- Wall installation eliminates the need for a radiation damper
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code

WhisperValue Lite U-Can Contractor Pack*

The Contractor Pack includes four complete fans.

Universal Housing Can	Motor/Grille Assembly	Complete Fan Unit	Master Pack
FV-08-10VSLA3	FV-08VSLB3	FV-08VSL3	4
FV-08-10VSLA3	FV-10VSLB3	FV-10VSL3	4

*Must order in quantities of 4, shipment will contain 1 box with 4 units.



WhisperComfort™

FV-04VE1 40/20 CFM or 20/10 CFM Two 4" Ducts



7-7/8" Depth

Supply and exhaust air flows through a single exterior opening



FV-WC04VE1
Optional Exterior Wall Cap



FV-EB04VE1
Optional Elbow

Low Cost and Easy to Install Balanced Air Solution

WhisperComfort Key Benefits:

- ERV balances air pressure by supplying fresh exterior air while exhausting stale interior air
- Low-rate continuous ventilation ideal for multi-family dwellings
- UL listed for ceiling or wall mount, making it ideal for multi-family applications
- MERV 6 supply filter and damper employed
- Exchange capillary core recovers temperature and moisture
- Dual setting air volume for 40/20 or 20/10 CFM
- Ideal for new air-tight houses built to meet energy-efficiency standards
- Compact size fits in walls and ceilings, and 2 x 8 construction
- Sensible Energy Recovery 66%
- Latent Energy Recovery 32%
- Does not require a condensate line or drain
- Can be used to comply with ASHRAE 62.2, LEED, IAP, CALGreen, California Title 24 and WA Ventilation Code



NEW

ecovent™

FV-07VBA1 + FV-07VBB1 70 CFM with Veri-Boost™ 4" Duct



4-6/8" Depth



Built-in Veri-Boost™ switch provides a 20 CFM boost

Cost effective, ENERGY STAR® Spot Ventilation Solution

EcoVent Key Benefits:

- Ideal for new residential construction
- Perfect cost effective ENERGY STAR® solution for Home Builders
- 70CFM – 1.1 sones at 0.1" w.g. [56 CFM/1.4 sones at 0.25" w.g.]
- Unique VeriBoost™ integral switch ensures the fan meets designed airflow requirements and provides Ventilation Verification Assurance: ≥50 CFM installed performance, to help meet the new ENERGY STAR® 3.0 standards
- Small grill design complements the aesthetics of your bathroom, powder room or laundry room
- Fits in 2 x 6 or larger construction
- Available in contractor packs only – housing and motor/grille packaged separately reduces risk of parts being lost or damaged on site
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED and ENERGY STAR® for Homes 3.0

EcoVent U-Can Contractor Packs

Model #	Description	Contents	Master Pack*
FV-07VBA1	Universal Housing Can	Housing Can, Duct Adapter & Junction Box	4
FV-07VBB1	Motor/Grille Assembly	Motor & Grille	4

*Must order in quantities of 4, shipment will contain 1 box with 4 pieces of each item.



WhisperWarm™

VENTILATION FAN

Quiet Heat Solution

FV-11VH2	110 CFM	4" Duct
FV-11VHL2	110 CFM	4" Duct



7-3/4"
Depth



FV-11VHL2 INCLUDES: (2) 13W ENERGY STAR® rated self ballasted GU24 base CFL lamps and a 4W night light. 3500 Kelvin/80+ CRI/997 Lumens per lamp/ 75 Lumens per watt/10,000 hours rated average life at 3 hours per start.

WhisperWarm Key Benefits:

- Durable 1400W stainless steel sheathed heating element
- Totally enclosed condenser motor for long life – rated 30,000 hours continuous run
- Thermal fuse protection on motor and 3-level safety device for heater
- Quick 1 minute warm-up
- Minimum 20 Amp dedicated circuit required
- For optimum performance, install heater no more than 8 feet from floor to ceiling



WhisperCeiling™

VENTILATION FAN

Quiet, Spot Ventilation Solution

FV-20VQ3	190 CFM	6" Duct
FV-30VQ3	290 CFM	6" Duct
FV-40VQ4	390 CFM	6" Duct



7-3/8"
Depth

WhisperCeiling Key Benefits:

- Quiet, yet powerful, large volume exhaust fans ideal for light commercial applications
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code



NEW

WhisperSupply Wall™

VENTILATION FAN

Filtered Supply Air Solution

FV-01WS2	10 CFM/On/Off switch	4" Duct
FV-04WS2	20 CFM/40 CFM/Off switch	6" Duct



WhisperSupply Wall Benefits:

- Filtered supply air fan solution to meet ASHRAE 62.2 requirements for make-up/supply air
- Easy installation in new construction or retrofits
- Designed for use in conjunction with furnace blower in Combustion Appliance Zone (CAZ) depressurization situations
- Interior deflector enhances airflow for improved Indoor Air Quality (IAQ)
- Merv 8 filter included
- Includes interior wall duct and exterior ventilation cap
- Can be used to comply with ASHRAE 62.2, LEED, and California Title 24



WhisperWall™ VENTILATION FAN

FV-08WQ1 70 CFM 8" Duct



Through the Wall Spot Ventilation Solution

WhisperWall Key Benefits:

- UL listed for through-the-wall application
- 10" galvanized sleeve and steel exterior hood included
- UL listed for tub/shower enclosure when used with a GFCI protected circuit
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code



Exterior Hood included



WhisperLine™ VENTILATION FAN

FV-10NLF1 120 CFM 4" Duct
FV-20NLF1 240 CFM 6" Duct
FV-30NLF1 340 CFM 6" Duct
FV-40NLF1 440 CFM 8" Duct



Remote Mount, In-line Spot Ventilation Solution

WhisperLine Key Benefits:

- Remote mount in-line fan for single or multiple inlets
- Insulated housing to prevent condensation and noise
- Tapered duct adapter for easy connection
- 5 positions for installation
- Joist or truss attachment brackets included
- Suspension brackets included
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24 and WA Ventilation Code



*Complete Installation Kit Specifications on pages 56-57



NEW

WhisperControl

Condensation Sensor Plus

On/Off—

FV-WCCS1-W (White),

FV-WCCS1-A (Light Almond)

On/Off/Light—

FV-WCCS2-W (White),

FV-WCCS2-A (Light Almond)

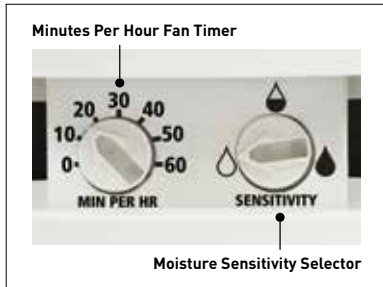


FV-WCCS1-W



FV-WCCS2-A

Timer and Sensor Settings



Condensation Sensor Plus Features & Benefits:

- Intelligent and advanced sensor technology monitors humidity and temperature to anticipate dew point, automatically operating the fan to control moisture
- Automatic seasonal adaptability with optional Moisture Sensitivity Selector allows fine tuning for dry or moist environments
- Adjustable Minutes Per Hour (MPH) Fan Timer ensures consistent and controlled ventilation throughout the day for compliance with ASHRAE 62.2
- Automatic Fan Control – 30 minute countdown timer initiates after moisture returns to normal levels
- Manual Fan Control – 20 minute countdown timer initiates once fan is turned on
- Blue LED indicates when the fan is on
- Commercial Grade – 8 Amp max load, 2 year limited warranty*
- Engineered to efficiently control current LED lighting and DC motor loads
- For indoor use. Includes matching wall plate
- Can be used to comply with ASHRAE 62.2, LEED, ENERGY STAR® 3.0 and CALGreen

*One year additional fan warranty available when a Panasonic WhisperCeiling/Lite, WhisperValue or WhisperFit/Lite fan is controlled by a Panasonic Condensation Sensor Plus.

Moisture Sensitivity Selector Settings



High Sensitivity – Setting the Condensation Sensor Plus to it's most sensitive setting covers the widest range of humidity. This is a setting for dryer climates and/or larger rooms. In a very dry environment, higher sensitivity is needed.



Average Sensitivity – The Condensation Sensor Plus comes factory set to this most common setting.



Low Sensitivity – The least sensitive setting is used in hotter and more humid climates. In a very moist environment, low moisture sensitivity may be needed to avoid excessive fan run-time.

NEW

WhisperControl

Preset Countdown and Hourly Timer

On/Off—

FV-WCD01-W (White),

FV-WCD01-A (Light Almond)

On/Off/Light—

FV-WCD02-W (White),

FV-WCD02-A (Light Almond)



FV-WCD01-W



FV-WCD02-A

Preset Countdown and Hourly Timer Features & Benefits:

- Preset the fan timer anywhere from 5-60 minutes
- Adjustable Minutes Per Hour (MPH) Fan Timer ensures consistent and controlled ventilation throughout the day for compliance with ASHRAE 62.2
- Manual On/Off Fan Control
- Blue LED indicates when the fan is on
- Commercial Grade, 8 Amp max load, 2 year limited warranty
- Engineered to efficiently control current LED lighting and DC motor loads
- For indoor use. Includes matching wall plate
- Can be used to comply with ASHRAE 62.2, LEED and ENERGY STAR® 3.0

Timer Settings



ecoswitch

FV-WCSW11-W (White)
FV-WCSW11-A (Light Almond)



1 Function EcoSwitch Features & Benefits:

- Fan On/Off Switch
- Engineered to efficiently control current LED lighting and DC motor loads
- Back and side wiring terminals accept both solid and stranded wire to ease installation
- Full-rated current capacity with fluorescent or resistive loads. Motor capacity is 80% of switch rating
- Fits single gang box / Includes matching wall plate
- Commercial Grade



ecoswitch

FV-WCSW21-W (White)
FV-WCSW21-A (Light Almond)



2 Function EcoSwitch Features & Benefits:

- Multi-switch combination devices save space and add convenience
- Engineered to efficiently control current LED lighting and DC motor loads
- Common feed shunted internally to all switches
- Elegant decorator styling provides multiple controls in a single-gang wall box
- Fits single gang box / Includes matching wall plate
- Commercial Grade



ecoswitch

FV-WCSW31-W (White)
FV-WCSW31-A (Light Almond)



3 Function EcoSwitch Features & Benefits:

- Multi-switch combination devices save space and add convenience
- Engineered to efficiently control current LED lighting and DC motor loads
- Common feed shunted internally to all switches
- Elegant decorator styling provides multiple controls in a single-gang wall box
- Fits single gang box / Includes matching wall plate
- Commercial Grade



ecoswitch

FV-WCSW41-W (White only)

Designed for model FV-11VHL2
Heater/Fan/Light/Night-light



4 Function EcoSwitch Features & Benefits:

- Single pole/double throw on-off-on top switch, two single pole on-off switches
- Multi-switch combination saves space and adds convenience
- Common feed shunted internally to all switches
- Commercial grade
- Includes matching wall plate
- Elegant styling provides multiple controls in a single-gang wall box
- 2 year limited warranty



SmartExhaust™

Controls

FV-WCPT1-W

Fan/Light Control
Delay Timer
Wall plate not included



SmartExhaust™ Features & Benefits:

- Earn LEED and ENERGY STAR® points for enhanced exhaust ventilation
- Replaces both fan and light switches for one easy operation
- Microprocessor technology provides precise ventilation times
- Programmable DELAY and VENTILATION settings
- Excess manual and/or delay operation is subtracted from the next hours programmed ventilation time
- Works with ALL incandescent, CFL, fluorescent and LED lights
- Make standard bath fans ASHRAE 62.2 complaint when used with ASHRAE 62.2 complaint fans

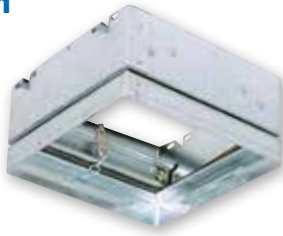
SmartExhaust™ Settings:

VENTILATION setting allows the user to set the number of minutes per hour the fan should run.

DELAY setting allows the user to set the number of minutes the fan should run after the bathroom light has been turned off. This setting provides additional run time for the fan to complete the remaining necessary ventilation after use. **SmartExhaust™** replaces an existing switch, there are no additional labor costs required for installation. Simple and economical fan and light operation is provided by one switch.

Ceiling Radiation Damper

PC-RD05C4



Radiation Damper Features:

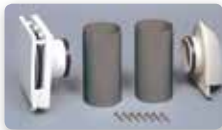
- UL classification (UL standard 555C) for use in 1, 2 or 3 hour fire-rated floor/ceiling and roof/ceiling designs
- Compatible with 50-150 CFM fans, fans with motion sensor and select fan/lights
- Galvanized steel frame with 165°F fusible link
- High temperature, non-asbestos, reinforced fiber thermal fabric

Fan Model approved for:	
Damper Model PC-RD05C4	WhisperGreen Select™, WhisperCeiling 50-150 CFM, WhisperLite, WhisperSense, WhisperSense Lite, WhisperWelcome, WhisperFit, WhisperFit Lite, WhisperValue, WhisperValue Lite



Passive Inlet Vent

FV-GKF32S1



Inlet Vent Features:

Panasonic Passive Inlet provides make-up air to help balance indoor vs. outdoor air pressure.

- Foam pad reduces outdoor noise and condensation
- Insulation lining to prevent condensation
- Durable ABS and PP resin body
- 7 stainless steel installation screws included
- Sturdy open/close lever
- 2-position air delivery

	Passive Inlet	FV-GKF32S1
Specifications	Air Volume Positions	2
	CFM Settings	12 & 18
Features	Open/Close Louver Setting	Yes
	Washable Air Filter	Yes
	Bug Screen	Yes
	3" x 12" Sleeve Included	Yes
	Body	ABS & PP
Installation	Wall Opening (diameter)	3 inch
	Installation Screw Included	Yes

Designer Grilles

FV-GL3TDA



FV-GL3TDB



Designer Grille Features:

- Easy and affordable to change
- Change your grille to fit your room decor without compromising the performance and quality of the unit

• Applicable Models

WhisperGreen Select™ (Fan only models):

FV-05-11VK1, FV-11-15VK1, FV-05-11VKS1

WhisperCeiling: FV-15VQ5, FV-11VQ5, FV-08VQ5, FV-05VQ5

WhisperFit: FV-11VF2, FV-08VF2

	FV-GL3TDA	FV-GL3TDB
Characteristics		
Grille Size (inches sq.)	13	14-1/5
Shipping Gross Weight (lbs)	1.1	1.3
Trend Style Category	Traditional	Traditional
Material	ABS	ABS
UL Approved ¹	Yes	Yes
HVI Certified ¹	Yes	Yes
Mfg. in ISO 9001 Certified Facility	Yes	Yes

¹ Approved with applicable models.

Cross Reference for Applicable WhisperControl & EcoSwitch to Panasonic Fans

	Model	FV-WCCS1-W/A	FV-WCCS2-W/A	FV-WCD01-W/A	FV-WCD02-W/A	FV-WCSW11-W/A	FV-WCSW21-W/A	FV-WCSW31-W/A	FV-WCSW41-W
		Switch Type	Condensation Sensor On/Off	Condensation Sensor On/Off/Light	Countdown & Hourly Timer	Countdown & Hourly Timer	1 Function Control	2 Function Control	3 Function Control
WhisperGreen Select	FV-05-11VK1	X		X		X			
	FV-11-15VK1	X		X		X			
	FV-05-11VKS1	X		X		X			
	FV-05-11VKL1		X		X		X		
	FV-11-15VKL1		X		X		X		
	FV-05-11VKSL1					X		X**	
WhisperRecessed/ Recessed LED	FV-08VRL1		X				X		
	FV-08VRE1		X				X		
WhisperCeiling	FV-05VQ5	X		X		X			
	FV-08VQ5	X		X		X			
	FV-11VQ5	X		X		X			
	FV-15VQ5	X		X		X			
	FV-20VQ3	X		X		X			
	FV-30VQ3	X		X		X			
	FV-40VQ3	X		X		X			
	FV-08VQL6		X		X		X	X	
	FV-11VQL6		X		X		X	X	
FV-15VQL6		X		X		X	X		
WhisperSense Lite	FV-08VQCL6				X		X**		
	FV-11VQCL6				X		X**		
WhisperFit	FV-08VF2	X		X		X			
	FV-11VF2	X		X		X			
	FV-05VFL4		X		X		X	X	
	FV-08VFL4		X		X		X	X	
	FV-11VFL4		X		X		X	X	
WhisperValue	FV-05VS3	X		X		X			
	FV-08VS3	X		X		X			
	FV-10VS3	X		X		X			
	FV-08VSL3		X		X		X	X	
	FV-10VSL3		X		X		X	X	
EcoVent	FV-07VBA1	X		X		X			
	FV-07VBB1	X		X		X			
WhisperSupply Wall	FV-01WS2	X		X		X			
	FV-04WS2	X		X					
WhisperWall	FV-08WQ1	X		X		X			
WhisperWarm	FV-11VH2*			X*		X*			
	FV-11VHL2*			X*	X				X*
WhisperLine	FV-10NLF1	X		X		X			
	FV-20NLF1	X		X		X			
	FV-30NLF1	X		X		X			
	FV-40NLF1	X		X		X			
WhisperComfort	FV-04VE1						X		

WhisperWelcome, WhisperSense, and WhisperGreen Select S/M models are not compatible with the above switches.

*Needs 1 control per function
**Switch is for light and night-light only

Fans with Built-in Controls



WhisperGreen Select Characteristics	FV-05-11VKS1																	
	(Base Fan with								Pre-installed Multi-Speed with Time Delay)									
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	110	113	100	106	90	95	80	82	70	71	60	66	50	53	40	43	30	33
Noise (sones)	<0.3	0.8	<0.3	0.7	<0.3	0.6	<0.3	0.4	<0.3	0.4	<0.3	0.3	<0.3	0.3	<0.3	<0.3	<0.3	<0.3
Power Consumption (Watts)	9.8	16.1	8.0	14.0	6.5	11.7	5.5	10.2	4.3	8.6	3.6	7.8	3.5	7.0	2.7	5.7	2.4	5.0
Energy Efficiency (CFMs/Watt)	11.5	7.2	13.0	7.9	14.5	8.5	15.3	8.4	17.2	8.7	17.5	8.8	15.1	8.1	16.3	8.2	14.2	7.6
Speed	931	1205	895	1179	852	1146	814	1131	772	1112	750	1107	747	1072	731	1073	718	1062
Current	0.10	0.16	0.09	0.14	0.07	0.12	0.06	0.10	0.05	0.09	0.04	0.08	0.04	0.07	0.08	0.06	0.03	0.06
Power Rating (V/Hz)	120/60																	



WhisperSense Characteristics	FV-08VQC5		FV-11VQC5	
	Static pressure in inches w.g.	0.1	0.25	0.1
Air Volume (CFM)	80	59	110	91
Noise (sones)	<0.3	<0.3	0.3	0.5
Power Consumption (Watts)	15.8	15.6	24.3	24.2
Energy Efficiency (CFMs/Watt)	5.1	3.9	4.6	3.9
Speed	825	1110	957	1170
Current	0.14	0.14	0.22	0.21
Power Rating (V/Hz)	120/60		120/60	



WhisperWelcome Characteristics	FV-05VFM2				FV-08VFM2			
	4" Duct		3" Duct		4" Duct		3" Duct	
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	50	30	50	34	80	62	70	56
Noise (sones)	<0.3	0.7	0.4	0.8	0.9	1.1	0.8	1.0
Power Consumption (Watts)	16.3	16.0	16.1	16.0	24.5	24.3	24.3	24.0
Energy Efficiency (CFMs/Watt)	3.6	2.4	3.3	2.2	3.5	2.7	3.1	2.5
Speed	678	924	740	958	749	945	868	1003
Current	0.13	0.13	0.13	0.13	0.20	0.19	0.20	0.19
Power Rating (V/Hz)	120/60				120/60			



WhisperGreen Select	FV-05-11VK1 (Base Fan)						FV-11-15VK1 (Base Fan)					
Characteristics												
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	110	113	80	82	50	53	150	151	130	130	110	110
Noise (sones)	<0.3	0.8	<0.3	0.4	<0.3	0.3	<0.3	0.7	<0.3	0.5	<0.3	<0.3
Power Consumption (Watts)	9.8	16.1	5.5	10.2	3.5	7.0	13.0	22.0	10.0	17.0	7.0	13.5
Energy Efficiency (CFMs/Watt)	11.5	7.2	15.3	8.4	15.1	8.1	11.5	6.8	13.1	7.8	15.7	8.2
Speed	931	1205	814	1131	747	1072	664	904	635	891	616	889
Current	0.10	0.16	0.06	0.10	0.04	0.07	0.13	0.21	0.10	0.17	0.07	0.13
Power Rating (V/Hz)	120/60											

WhisperGreen Select	FV-05-11VK1 + FV-VS15VK1 (Base Fan with Multi-Speed Time Delay Plug 'N Play™ Module)																	
Characteristics																		
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	110	113	100	106	90	95	80	82	70	71	60	66	50	53	40	43	30	33
Noise (sones)	<0.3	0.8	<0.3	0.7	<0.3	0.6	<0.3	0.4	<0.3	0.4	<0.3	0.3	<0.3	0.3	<0.3	<0.3	<0.3	<0.3
Power Consumption (Watts)	9.8	16.1	8.0	14.0	6.5	11.7	5.5	10.2	4.3	8.6	3.6	7.8	3.5	7.0	2.7	5.7	2.4	5.0
Energy Efficiency (CFMs/Watt)	11.5	7.2	13.0	7.9	14.5	8.5	15.3	8.4	17.2	8.7	17.5	8.8	15.1	8.1	16.3	8.2	14.2	7.6
Speed	931	1205	895	1179	852	1146	814	1131	772	1112	750	1107	747	1072	731	1073	718	1062
Current	0.10	0.16	0.09	0.14	0.07	0.12	0.06	0.10	0.05	0.09	0.04	0.08	0.04	0.07	0.08	0.06	0.03	0.06
Power Rating (V/Hz)	120/60																	

WhisperGreen Select	FV-11-15VK1 + FV-VS15VK1 (Base Fan with Multi-Speed Time Delay Plug 'N Play™ Module)																			
Characteristics																				
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	150	151	130	130	120	121	110	110	100	102	90	96	80	84	70	72	60	62	50	51
Noise (sones)	<0.3	0.7	<0.3	0.5	<0.3	0.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	<0.3	0.4	<0.3	0.4	<0.3	0.4	<0.3
Power Consumption (Watts)	13.0	22.0	10.0	17.0	7.4	14.1	7.0	13.5	5.6	11.3	4.9	10.7	4.4	9.6	3.8	8.6	3.6	7.7	3.1	6.8
Energy Efficiency (CFMs/Watt)	11.5	6.8	13.1	7.8	16.2	8.6	15.7	8.2	17.9	9.0	18.6	9.0	18.2	8.8	18.4	8.4	16.7	8.1	16.1	7.5
Speed	664	904	635	891	615	884	616	889	603	886	595	891	604	911	602	918	622	919	616	928
Current	0.13	0.21	0.10	0.17	0.08	0.14	0.07	0.13	0.06	0.11	0.06	0.11	0.05	0.10	0.05	0.09	0.04	0.08	0.04	0.07
Power Rating (V/Hz)	120/60																			



WhisperCeiling	FV-05VQ5		FV-08VQ5		FV-11VQ5		FV-15VQ5	
Characteristics								
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	50	36	80	62	110	91	150	127
Noise (sones)	<0.3	0.4	<0.3	0.4	<0.3	0.5	<0.3	0.5
Power Consumption (Watts)	11.1	11.7	14.7	14.5	21.1	20.7	28.4	27.3
Energy Efficiency (CFMs/Watt)	4.7	3.2	5.8	4.5	5.3	4.5	5.3	4.7
Speed	731	1060	829	1089	950	1161	691	911
Current	0.09	0.10	0.12	0.12	0.18	0.17	0.24	0.23
Power Rating (V/Hz)	120/60		120/60		120/60		120/60	



WhisperFit	FV-08VF2				FV-11VF2			
Characteristics	4" Duct		3" Duct		4" Duct		3" Duct	
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	80	60	70	53	110	94	90	78
Noise (sones)	0.8	1.0	0.8	1.1	1.5	1.5	1.5	2.0
Power Consumption (Watts)	24.5	24.3	24.5	24.2	33.1	32.8	33.0	32.7
Energy Efficiency (CFMs/Watt)	3.3	2.5	2.9	2.2	3.4	2.9	2.9	2.5
Speed	757	956	845	1007	830	1000	1029	1128
Current	0.20	0.20	0.20	0.20	0.27	0.28	0.27	0.28
Power Rating (V/Hz)	120/60				120/60			



WhisperValue	FV-05VS3		FV-08VS3		FV-10VS3	
Characteristics	4" Oval Duct		4" Oval Duct		4" Oval Duct	
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	60	53	80	72	100	92
Noise (sones)	0.4	1.0	1.0	1.2	1.4	1.5
Power Consumption (Watts)	15.9	16.3	21.2	21.5	29.6	29.9
Energy Efficiency (CFMs/Watt)	3.8	3.3	3.8	3.3	3.4	3.1
Speed (RPM)	706	980	778	997	868	1056
Current (amps)	0.13	0.14	0.18	0.18	0.25	0.26
Power Rating (V/Hz)	120/60		120/60		120/60	

Fan/Lights with Built-in Controls



WhisperGreen Select	FV-05-11VKSL1																	
Characteristics	(Base Fan with LED Light								and Pre-installed Multi-Speed with Time Delay)									
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	110	114	100	105	90	94	80	86	70	71	60	62	50	53	40	43	30	35
Noise (sones)	0.4	0.9	<0.3	0.8	<0.3	0.6	<0.3	0.6	<0.3	0.4	<0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Power Consumption (Watts)	11.1	18.0	8.7	15.0	7.0	12.8	6.0	11.1	4.7	8.9	3.9	7.6	4.0	7.0	2.8	5.7	2.5	5.0
Energy Efficiency (CFMs/Watt)	9.9	6.3	11.6	7.1	13.1	7.5	13.3	7.7	15.3	8.2	15.9	8.4	12.8	7.7	14.6	7.7	12.8	7.4
Speed	960	1237	926	1213	872	1184	837	1157	796	1119	769	1102	740	1081	739	1077	731	1058
Current	0.12	0.17	0.09	0.15	0.08	0.13	0.07	0.12	0.05	0.09	0.05	0.08	0.04	0.07	0.04	0.06	0.03	0.06
Power Rating (V/Hz)	120/60																	



WhisperSense Lite	FV-08V0CL6		FV-11V0CL6	
Characteristics				
Static pressure in inches w.g.	0.1	0.25	0.1	0.25
Air Volume (CFM)	80	62	110	89
Noise (sones)	<0.3	0.4	0.7	0.7
Power Consumption (Watts)	17.5	17.6	26.0	25.7
Energy Efficiency (CFMs/Watt)	4.7	3.6	4.3	3.5
Speed	881	1125	1017	1202
Current	0.16	0.15	0.23	0.22
Power Rating (V/Hz)	120/60		120/60	

Single Speed Fans with Lights (On/Off)



WhisperGreen Select Characteristics	FV-05-11VKL1 (Base Fan with LED Light)						FV-11-15VKL1 (Base Fan with LED Light)					
	Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1
Air Volume (CFM)	110	114	80	86	50	53	150	143	130	131	110	111
Noise (sones)	0.4	0.9	<0.3	0.6	<0.3	<0.3	0.6	0.9	<0.3	0.8	<0.3	0.6
Power Consumption (Watts)	11.1	18.0	6.0	11.1	4.0	7.0	16.5	24.0	12.0	6.3	8.5	16.0
Energy Efficiency (CFMs/Watt)	9.9	6.3	13.3	7.7	12.8	7.7	9.2	6.0	10.9	6.3	13.1	7.1
Speed	960	1237	837	1157	740	1081	730	941	679	926	652	914
Current	0.12	0.17	0.07	0.12	0.04	0.07	0.16	0.22	0.12	0.19	0.08	0.15
Power Rating (V/Hz)	120/60											

WhisperGreen Select Characteristics	FV-05-11VKL1 + FV-VS15VK1 (Base Fan with LED Light and Multi-Speed Time Delay Plug 'N Play'™ Module)																	
	Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1
Air Volume (CFM)	110	114	100	105	90	94	80	86	70	71	60	62	50	53	40	43	30	35
Noise (sones)	0.4	0.9	<0.3	0.8	<0.3	0.6	<0.3	0.6	<0.3	0.4	<0.3	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Power Consumption (Watts)	11.1	18.0	8.7	15.0	7.0	12.8	6.0	11.1	4.7	8.9	3.9	7.6	4.0	7.0	2.8	5.7	2.5	5.0
Energy Efficiency (CFMs/Watt)	9.9	6.3	11.6	7.1	13.1	7.5	13.3	7.7	15.3	8.2	15.9	8.4	12.8	7.7	14.6	7.7	12.8	7.4
Speed	960	1237	926	1213	872	1184	837	1157	796	1119	769	1102	740	1081	739	1077	731	1058
Current	0.12	0.17	0.09	0.15	0.08	0.13	0.07	0.12	0.05	0.09	0.05	0.08	0.04	0.07	0.04	0.06	0.03	0.06
Power Rating (V/Hz)	120/60																	

WhisperGreen Select Characteristics	FV-11-15VKL1 + FV-VS15VK1 (Base Fan with LED Light and Multi-Speed Time Delay Plug 'N Play'™ Module)																			
	Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1
Air Volume (CFM)	150	143	130	131	120	122	110	111	100	102	90	90	80	82	70	71	60	62	50	52
Noise (sones)	0.6	0.9	<0.3	0.8	<0.3	0.6	<0.3	0.6	<0.3	0.5	<0.3	0.4	<0.3	0.4	<0.3	0.3	<0.3	0.3	<0.3	0.4
Power Consumption (Watts)	16.5	24.0	12.0	21.0	9.5	16.9	8.5	16.0	6.9	13.5	5.7	11.6	5.0	10.4	4.3	8.8	4.0	7.9	3.2	7.2
Energy Efficiency (CFMs/Watt)	9.2	6.0	10.9	6.3	12.8	7.3	13.1	7.1	14.8	7.7	16.0	7.8	16.0	7.9	16.3	8.1	15.5	8.1	16.3	7.5
Speed	730	941	679	926	669	917	652	914	644	923	631	917	633	918	624	904	634	910	607	928
Current	0.16	0.22	0.12	0.19	0.10	0.17	0.08	0.15	0.07	0.14	0.06	0.12	0.06	0.11	0.05	0.09	0.05	0.08	0.04	0.08
Power Rating (V/Hz)	120/60																			

Single Speed Fans with Lights (On/Off)

WhisperRecessed LED™

VENTILATION FAN

WhisperRecessed LED	FV-08VRE1	
Characteristics		
Static pressure in inches w.g.	0.1	0.25
Air Volume (CFM)	80	66
Noise (sones)	0.8	0.7
Power Consumption (Watts)	20.5	19.5
Energy Efficiency (CFMs/Watt)	4.0	3.4
Speed	1378	1501
Current	0.17	0.17
Power Rating (V/Hz)	120/60	

WhisperRecessed™

VENTILATION FAN

WhisperRecessed	FV-08VRL1	
Characteristics		
Static pressure in inches w.g.	0.1	0.25
Air Volume (CFM)	80	66
Noise (sones)	0.8	0.7
Power Consumption (Watts)	20.5	19.5
Energy Efficiency (CFMs/Watt)	4.0	3.4
Speed	1378	1501
Current	0.17	0.17
Power Rating (V/Hz)	120/60	

WhisperLite™

VENTILATION FAN

WhisperLite	FV-08VQL6		FV-11VQL6		FV-15VQL6	
Characteristics						
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	80	62	110	90	150	128
Noise (sones)	<0.3	0.4	0.5	0.6	0.9	1.0
Power Consumption (Watts)	14.9	14.7	23.4	23.0	31.8	30.9
Energy Efficiency (CFMs/Watt)	5.5	4.3	4.7	3.9	4.8	4.2
Speed	863	1117	1006	1193	800	988
Current	0.12	0.12	0.20	0.19	0.27	0.26
Power Rating (V/Hz)	120/60		120/60		120/60	

WhisperValue Lite™

VENTILATION FAN

WhisperValue Lite	FV-08VSL3		FV-10VSL3	
Characteristics	4" Oval Duct		4" Oval Duct	
Static pressure in inches w.g.	0.1	0.25	0.1	0.25
Air Volume (CFM)	80	72	100	91
Noise (sones)	1.0	1.2	1.4	1.5
Power Consumption (Watts)	22.5	22.9	30.2	30.3
Energy Efficiency (CFMs/Watt)	3.6	3.1	3.3	3.0
Speed (RPM)	825	1021	918	1087
Current (amps)	0.19	0.19	0.26	0.26
Power Rating (V/Hz)	120/60		120/60	

WhisperFit Lite™

VENTILATION FAN

WhisperFit Lite	FV-05VFL4				FV-08VFL4				FV-11VFL4			
Characteristics	4" Duct		3" Duct		4" Duct		3" Duct		4" Duct		3" Duct	
Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
Air Volume (CFM)	50	34	50	35	80	67	70	60	110	95	90	78
Noise (sones)	<0.3	0.4	<0.3	0.5	0.5	0.8	0.6	0.8	1.3	1.4	1.5	1.5
Power Consumption (Watts)	14.8	14.7	14.8	14.6	28.4	28.1	28.3	28.0	32.6	32.1	32.1	31.6
Energy Efficiency (CFMs/Watt)	3.6	2.4	3.4	2.4	2.8	2.4	2.6	2.3	3.4	3.0	3.0	2.7
Speed	692	962	747	983	803	1005	908	1064	897	1068	1077	1177
Current	0.12	0.12	0.12	0.12	0.24	0.24	0.24	0.24	0.27	0.27	0.27	0.27
Power Rating (V/Hz)	120/60				120/60				120/60			

Specialty Fans

WhisperComfort™ VENTILATION FAN

WhisperComfort Characteristics	FV-04VE1		
	40 CFM	20 CFM	10 CFM
Static pressure in inches w.g.	0.1	0.1	0.1
Air Volume Exhaust (CFM)	40	20	10
Air Volume Supply (CFM)	30	20	10
Noise (sones)	0.8	<0.3	N/A
Power Consumption (Watts)	23	21	17
Speed	1479	1292	1095
Current	0.15	0.10	0.09
Power Rating (V/Hz)	120/60		

WhisperCeiling™ VENTILATION FAN

WhisperCeiling Characteristics	FV-20V03		FV-30V03		FV-40V04	
	Static pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1
Air Volume (CFM)	190	145	290	257	390	356
Noise (sones)	0.8	1.4	2.0	N/A	3.0	3.0
Power Consumption (Watts)	43.7	42.9	64.0	62.0	111.4	109.6
Energy Efficiency (CFMs/Watt)	4.6	3.6	4.5	4.1	3.5	3.3
Speed	761	949	877	990	793	874
Current	0.34	0.33	0.53	0.52	0.99	0.98
Power Rating (V/Hz)	120/60		120/60		120/60	

ecovent™

EcoVent Characteristics	FV-07VBA1 + FV-07VBB1			
	Standard		Veri-Boost™ Activated	
Static pressure in inches w.g.	0.1	0.25	0.1	0.25
Air Volume (CFM)	70	56	90	75
Noise (sones)	1.1	1.4	1.5	2.0
Power Consumption (Watts)	20.0	20.0	24.0	24.0
Energy Efficiency (CFMs/Watt)	3.5	2.8	3.8	3.1
Speed	907	1200	1019	1266
Current	0.15	0.14	0.19	0.18
Power Rating (V/Hz)	120/60			

WhisperSupply Wall™ VENTILATION FAN

WhisperSupply Wall Characteristics	FV-01WS2		FV-04WS2	
	Static pressure in inches w.g.	0.3	0.3	0.3
Air Volume (CFM)	10	20	40	40
Noise (sones)	<0.3	<0.3	1.2	1.2
Power Consumption (Watts)	3	5.2	8.2	8.2
Energy Efficiency (CFMs/Watt)	4.7	4.8	5.6	5.6
Speed	2662	1738	2559	2559
Current	0.03	0.06	0.07	0.07
Power Rating (V/Hz)	120/60		120/60	

WhisperWarm™ VENTILATION FAN

WhisperWarm Characteristics	FV-11VH2		FV-11VHL2	
	Static pressure in inches w.g.	0.1	0.25	0.1
Air Volume (CFM)	110	89	110	89
Noise (sones)	0.6	1.0	0.7	1.0
Power Consumption (Watts)	30.7	30.5	30.6	30.5
Energy Efficiency (CFMs/Watt)	3.6	2.9	3.6	2.9
Speed	778	935	812	956
Current	0.25	0.25	0.25	0.25
Power Rating (V/Hz)	120/60		120/60	

WhisperWall™ VENTILATION FAN

WhisperWall Characteristics	FV-08WQ1	
	Static pressure in inches w.g.	0.03
Air Volume (CFM)	70	
Noise (sones)	1.1	
Power Consumption (Watts)	18.0	
Energy Efficiency (CFMs/Watt)	4.3	
Speed	660	
Current	0.20	
Power Rating (V/Hz)	120/60	



WhisperLine Characteristics	FV-10NLF1			FV-20NLF1			FV-30NLF1			FV-40NLF1		
Static pressure in inches w.g.	0.2	0.3	0.4	0.2	0.3	0.4	0.2	0.3	0.4	0.2	0.3	0.4
Air Volume (CFM)	120	105	82	240	225	200	340	322	302	440	421	407
Power Consumption (Watts)	36.2	35.0	33.5	55.5	53.5	51.1	95.2	93.5	91.5	136	132	130
Energy Efficiency (CFMs/Watt)	3.5			4.1			3.2			3.2		
Speed	1590			1260			1337			1150		
Current	0.31			0.46			0.86			1.10		
Power Rating (V/Hz)	120/60			120/60			120/60			120/60		

WhisperLine Installation Kits					
Model No.	Description	Inlet Grille	Backdraft Damper	Clamp	Y-Adapter
FV-NLF04G	4" Inlet Grille + Metal Plate	1 (4")	-	-	-
FV-NLF06G	6" Inlet Grille + Metal Plate	1 (6")	-	-	-
PC-NLF04S	4" Single Inlet Kit	1 (4")	1 (4")	6	-
PC-NLF06S	6" Single Inlet Kit	1 (6")	1 (6")	6	-
PC-NLF04D	4" Double Inlet Kit	2 (4")	2 (4")	12	1 (4" - 4"x 2)
PC-NLF06D	6" Double Inlet Kit	2 (6")	2 (6")	12	1 (6" - 6"x 2)
PC-NLF64D	6"-4" Double Inlet Kit	2 (4")	2 (4")	12	1 (6" - 4"x 2)
PC-NLF86Y	8"-6" Y-Adapter	-	-	-	1 (8" - 6"x 2)

Sizing Information and Instructions

Equivalent Duct Length (EDL): The Equivalent Duct Length Table (Figure B) shows you how to calculate the equivalent straight duct length in order to overcome static pressure. The EDL chart helps ensure fan performs as expected under the airflow resistance caused by the listed components.

A ventilating fan's performance is plotted on a graph called a performance curve. The performance curve shows airflow in cubic feet per minute (CFM) along the horizontal axis and static pressure (resistance) along the vertical axis. Figure A shows how a performance curve works. The fan with a "Closed Duct" has high static pressure and no airflow; and the fan with "No Duct" has low static pressure and high airflow. In reality, an installed fan will be somewhere in between these two points.

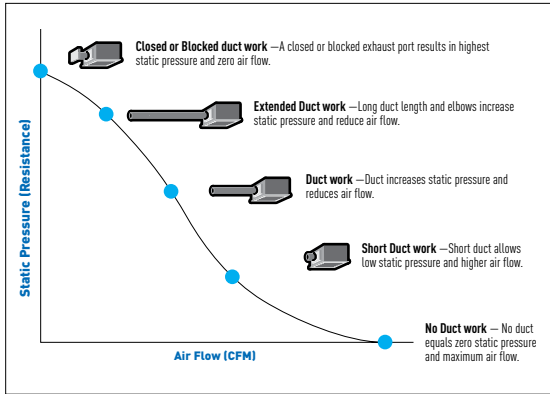


FIG. A

Sizing and selecting a Ceiling Mounted Fan:

Proper sizing requires that you determine the needed CFM, the square footage of the room or home, and the length and type of duct.

Example: Sizing for an 8 ft x 10 ft x 8 ft ceiling bathroom using 12 foot long, 4 inch diameter aluminum flex duct, one elbow, one wall cap.

- Step 1:** Determine application
Bathroom = 1 CFM/square foot
- Step 2:** Calculate the area to be ventilated in square feet.
Assuming an 8 ft ceiling:
room length x width = area in square feet
8 ft x 10 ft = 80 sq.ft.
- Step 3:** Calculate your required CFM
1 CFM x 80 sq.ft. = 80 CFM
- Step 4:** Use the Equivalent Duct Length chart above to calculate duct run.
4a. 12 ft aluminum flex duct x 1.25 = 15 ft
4b. One elbow = 15 ft EDL
4c. One wall cap = 30 ft EDL
15 ft + 15 ft + 30 ft = 60 ft EDL
This is the equivalent duct length (or resistance) the fan must overcome to move air through the duct to the outside.
- Step 5:** Review models in catalog pages to find a model with desired feature. Features may include light fixture, heater or low-profile housing.
Note: Check with your local building inspector to confirm that these methods are accepted in your area.

		Equivalent Duct Length			
		Duct Diameter			
		3"	4"	6"	8"
Duct	Smooth Metal	Same as measured duct length			
Material	Flex Aluminum	1.25 X duct length	1.25 X duct length	1.5 X duct length	1.5 X duct length
	Insulated Flex	1.5 X duct length	1.5 X duct length	1.75 X duct length	1.75 X duct length
Terminal	Wall Cap	30 feet	30 feet	40 feet	40 feet
Device	Roof Jack	30 feet	30 feet	40 feet	40 feet
Elbow	Adjustable	15 feet	15 feet	20 feet	20 feet

FIG. B