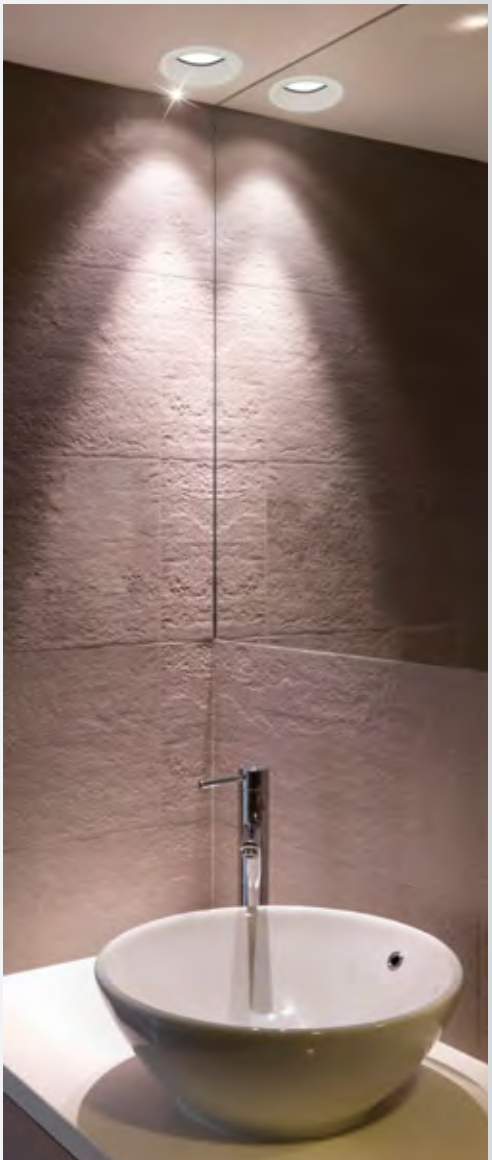
Panasonic

VENTILATION

DC Motor Solutions



Panasonic

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

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 **seventh** consecutive year, earning their most prestigious ENERGY STAR® honor, the Sustained Excellence 2016 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!

A LEGACY OF INNOVATION

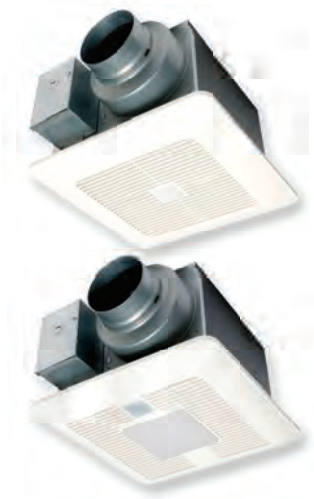
2012	2013	2014	2015		2016
WhisperRecessed™	WhisperGreen LED™	WhisperGreenSelect™	WhisperFit EZ	SelectCycler™	WhisperValue DC™
Design Solution	Ultimate Energy Efficient Fan/Light Solution	One Fan - Multiple IAQ Solutions Most Efficient 2017	Retrofit Solution Customizable Airflow	Low Cost, Whole House Ventilation Solution	Multi-Family Solution DC motor technology

Panasonic

WhisperSense® DC™ Ventilation Fan and Fan/Light

WhisperSense® DC™ VENTILATION FAN

FV-0511VQC1
FV-0511VQCL1



- Precision spot ventilation fans ideal for use in the bathroom, laundry room, mud room, basement or garage
- Revolutionary ECM motor with SmartFlow™ technology for optimum CFM output
- Pick-A-Flow Speed Selector (50-80-110 CFM) combined with SmartFlow™ Technology simplifies the selection process and ensures optimum performance to meet code and reduce callbacks
- Dual Sensor Technology (Motion & Moisture) provides built-in redundancy for the ultimate in automatic moisture and odor control
- Flex-Z Fast bracket provides flexible, fast & trouble-free installation, even from below the ceiling
- Lighted model incorporates one 10W dimmable LED chip panel with <1W LED night light for warm, long-life energy efficient illumination (night light must be wired separately)
- Elegant grille design compliments the aesthetics of any room
- Can be used to comply with ASHRAE 62.2, LEED, ENERGY STAR® IAP, CALGreen, EarthCraft, CA Title 24 and WA state code

ADDITIONAL BENEFITS

- Integrated 4" or 6" dual duct adapter enhances installation options
- UL listed for tub/shower enclosure when GFCI protected
- Auto shut off feature helps eliminate unnecessary energy use and further reduces operating costs
- 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
- Built-in damper reduces back drafting and helps with blower door testing
- Warranty: 6 years ECM Motor, 5 years LED, 3 years all other parts
- UL listed for use with the Panasonic Ceiling Radiation Damper (model # PC-RD05C5)

ENERGY STAR

The power of performance, with exclusive smart sensing technology

ECM Motor with SmartFlow™ Technology

WhisperSense® DC™ is designed to perform as rated. When the fan senses static pressure, its speed is automatically increased to ensure optimal CFM output. This feature provides peace of mind, as the installer doesn't have to worry about compromising the fan's performance, even with a complicated duct run.

Pick-A-Flow Speed Technology

Built-in Pick-A-Flow speed selector provides the unique ability to select your required airflow (50-80-110 CFM) with the simple flip of a switch.

Three ways the fan can function

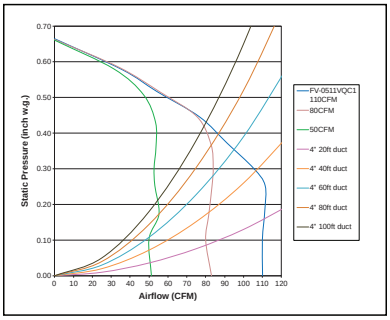
- Motion on/Motion off
- Motion on/Humidity off
- Humidity on/Humidity off
- Variable humidity controls from 30-80% Relative Humidity (RH)
- Adjustable delay timer from 30 seconds to 60 minutes

Dual Sensor Technology

LED Lighting

WhisperSense® DC™ fan/light models feature a contemporary flush mount grille that incorporates one 10W Dimmable LED chip panel with <1W LED night light for warm, long-life energy efficient illumination. Panel specifications include: 3000 Kelvin Warm White/90CRI/700 lumens/70 LPW/ENERGY STAR 2.0 certified/ JA-8 compliant for CA Title 24/50,000 hours rated average life.

FV-0511VQC1



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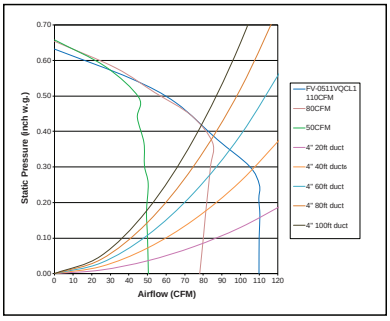

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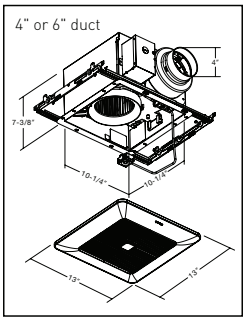

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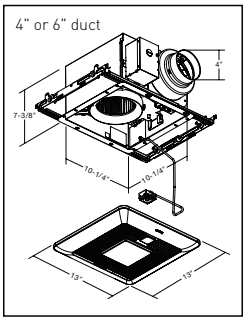

Specifications		WhisperSense DC											
		FV-0511VQC1						FV-0511VQCL1					
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
	Air Volume (CFM)	110	111	80	83	50	53	110	110	80	83	50	50
	Noise (sones)	<0.3	0.9	<0.3	0.6	<0.3	0.4	0.4	0.9	<0.3	0.6	<0.3	0.4
	Power Consumption (watts)	10.6	16.4	5.9	10.8	4.0	7.2	10.9	16.1	6.0	11.0	3.9	7.1
	Energy Efficiency (CFM/watt)	10.6	6.9	13.6	7.7	12.5	7.4	10.3	7.0	13.7	7.7	14.1	7.8
	Speed (RPM)	957	1239	821	1172	756	1093	1016	1268	867	1185	768	1097
	Current (amps)	0.18	0.26	0.11	0.18	0.07	0.13	0.18	0.26	0.11	0.19	0.07	0.12
	MAX. Current (amps)	0.27		0.27		0.27		0.30		0.30		0.30	
	Power Rating (V/Hz)	120/60		120/60		120/60		120/60		120/60		120/60	
Specifications	Motor Type	DC		DC		DC		DC		DC		DC	
	Type of Motor Bearing	Ball		Ball		Ball		Ball		Ball		Ball	
	Thermal Fuse Protection	Yes		Yes		Yes		Yes		Yes		Yes	
	Blower Wheel Type	Sirocco		Sirocco		Sirocco		Sirocco		Sirocco		Sirocco	
	ENERGY STAR Qualified	Yes		Yes		Yes		Yes		Yes		Yes	
Installation	Duct Diameter (inches)	4" or 6"		4" or 6"		4" or 6"		4" or 6"		4" or 6"		4" or 6"	
	Mounting Opening (inches sq.)	10-1/2		10-1/2		10-1/2		10-1/2		10-1/2		10-1/2	
	Grille Size (inches)	13		13		13		13		13		13	
Light Specifications	Lamp Watts	N/A		N/A		N/A		10.0		10.0		10.0	
	Lumens (lm)	N/A		N/A		N/A		700		700		700	
	Lumens Per Watt (LPW)	N/A		N/A		N/A		70		70		70	
	Color Rendering Index	N/A		N/A		N/A		90		90		90	
	Color Temperature (Kelvin)	N/A		N/A		N/A		3,000		3,000		3,000	
	Rated Life (hours)	N/A		N/A		N/A		50,000		50,000		50,000	
	Lamp Model #	N/A		N/A		N/A		N/A		N/A		N/A	
	Type of Lamp Socket	N/A		N/A		N/A		LED Chip		LED Chip		LED Chip	
Night Light Specs	Night Light Watts	N/A		N/A		N/A		0.2		0.2		0.2	
Shipping	Gross Weight (lbs)	11.2		11.2		11.2		11.9		11.9		11.9	
Approved Code/ Standard/ Regulation	UL tub/Shower Enclosure	Yes		Yes		Yes		Yes		Yes		Yes	
	Washington VIAQ Code	Yes		Yes		Yes		Yes		Yes		Yes	
	Wall installation	No		No		No		No		No		No	
	California Title 24 Compliant	Yes		Yes		Yes		Yes		Yes		Yes	
	Mfg in ISO 9001 Certified Facility	Yes		Yes		Yes		Yes		Yes		Yes	

*As tested by an EPA recognized lab

NOTE: 0.25" w.g. = Installed Performance

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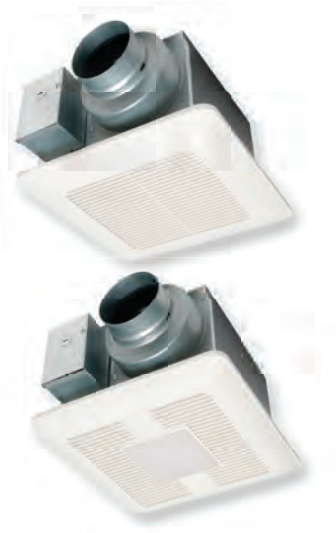
Design and specifications subject to change without notice.

Panasonic

WhisperCeiling® DC™ Ventilation Fans and Fan/Lights

WhisperCeiling® DC™
VENTILATION FAN

Fan Only Models: FV-0511VQ1, FV-1115VQ1
Fan/Light Models: FV-0511VQL1, FV-1115VQL1



- Precision spot ventilation fans ideal for use in the bathroom, laundry room, sun room, basement or garage
- Revolutionary ECM motor with SmartFlow™ technology for optimum CFM output
- Pick-A-Flow Speed Selector (50-80-110 or 110-130-150 CFM models) combined with SmartFlow™ Technology simplifies the selection process and ensures optimum performance to meet code and reduce callbacks
- Flex-Z Fast™ bracket provides flexible, fast and easy installation, even from below the ceiling
- Lighted models incorporate one 10W dimmable LED chip panel with <1W LED night light for warm, long-life energy efficient illumination (night light must be wired separately)
- Elegant grille design compliments the aesthetics of any room
- Can be used to comply with ASHRAE 62.2, LEED, ENERGY STAR® IAP, EarthCraft, CA Title 24 and WA state code

ADDITIONAL BENEFITS

- Integrated 4" or 6" dual duct adapter enhances installation options
- UL listed for tub/shower enclosure when GFCI protected
- 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
- Built-in damper reduces back drafting and helps with blower door testing
- UL listed for use with the Panasonic Ceiling Radiation Damper (model # PC-RD05C5)
- Warranty: 6 years ECM Motor, 5 years LED, 3 years all other parts

Most Efficient 2017
Les plus écoénergétiques

Precision Spot Ventilation Fans and Fan/Lights

Panasonic

ECM Motor with SmartFlow™ Technology

WhisperCeiling® DC™ is designed to perform as rated. When the fan senses static pressure, its speed is automatically increased to ensure optimal CFM output. This feature provides peace of mind, as the installer doesn't have to worry about compromising the fan's performance, even with a complicated duct run.

Pick-A-Flow Speed Technology

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

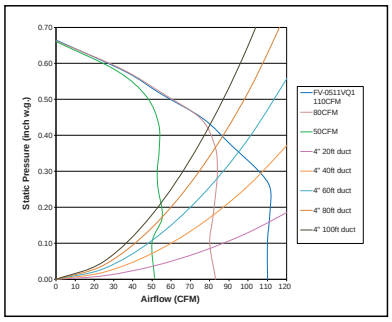
Specifications		WhisperCeiling DC																							
		FV-0511VQ1 (Fan Only)						FV-1115VQ1 (Fan Only)						FV-0511VQL1 (Fan/Light)						FV-1115VQL1 (Fan/Light)					
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25	0.1	0.25
	Air Volume (CFM)	110	111	80	83	50	53	150	152	130	131	110	110	110	110	80	83	50	50	150	144	130	131	110	110
	Noise (sones)	<0.3	0.9	<0.3	0.6	<0.3	0.4	<0.3	0.7	<0.3	0.5	<0.3	<0.3	0.4	0.9	<0.3	0.6	<0.3	0.4	0.5	0.8	<0.3	0.7	<0.3	0.5
	Power Consumption (watts)	10.6	16.4	5.9	10.8	4.0	7.2	11.8	20.2	9.0	15.7	6.8	12.1	10.9	16.1	6.0	11.0	3.9	7.1	13.0	19.3	10.3	17.0	7.7	12.8
	Energy Efficiency (CFM/watt)	10.6	6.9	13.6	7.7	12.5	7.4	12.9	7.6	14.7	8.5	16.4	9.2	10.3	7.0	13.7	7.7	14.1	7.8	11.7	7.5	12.8	7.8	14.5	8.7
	Speed (RPM)	957	1239	821	1172	756	1093	698	925	671	918	636	900	1016	1268	867	1185	768	1097	740	958	722	949	679	935
	Current (amps)	0.18	0.26	0.11	0.18	0.07	0.13	0.19	0.31	0.16	0.25	0.12	0.20	0.18	0.26	0.11	0.19	0.07	0.12	0.21	0.30	0.17	0.27	0.13	0.22
	MAX. Current (amps)	0.27		0.27		0.27		0.31		0.31		0.31		0.30		0.30		0.30		0.30		0.30		0.30	
	Power Rating (V/Hz)	120/60		120/60		120/60		120/60		120/60		120/60		120/60		120/60		120/60		120/60		120/60		120/60	
Specifications	Motor Type	DC		DC		DC		DC		DC		DC		DC		DC		DC		DC		DC		DC	
	Type of Motor Bearing	Ball		Ball		Ball		Ball		Ball		Ball		Ball		Ball		Ball		Ball		Ball		Ball	
	Thermal Fuse Protection	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes	
	Blower Wheel Type	Sirocco		Sirocco		Sirocco		Sirocco		Sirocco		Sirocco		Sirocco		Sirocco		Sirocco		Sirocco		Sirocco		Sirocco	
	ENERGY STAR Qualified	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes	
Installation	Duct Diameter (inches)	4" or 6"		4" or 6"		4" or 6"		6"		6"		6"		4" or 6"		4" or 6"		4" or 6"		6"		6"		6"	
	Mounting Opening (inches sq.)	10-1/2		10-1/2		10-1/2		10-1/2		10-1/2		10-1/2		10-1/2		10-1/2		10-1/2		10-1/2		10-1/2		10-1/2	
	Grille Size (inches)	13		13		13		13		13		13		13		13		13		13		13		13	
Light Specifications	Lamp Watts	N/A		N/A		N/A		N/A		N/A		N/A		10.0		10.0		10.0		10.0		10.0		10.0	
	Lumens (lm)	N/A		N/A		N/A		N/A		N/A		N/A		700		700		700		700		700		700	
	Lumens Per Watt (LPW)	N/A		N/A		N/A		N/A		N/A		N/A		70		70		70		70		70		70	
	Color Rendering Index	N/A		N/A		N/A		N/A		N/A		N/A		90		90		90		90		90		90	
	Color Temperature (Kelvin)	N/A		N/A		N/A		N/A		N/A		N/A		3,000		3,000		3,000		3,000		3,000		3,000	
	Rated Life (hours)	N/A		N/A		N/A		N/A		N/A		N/A		50,000		50,000		50,000		50,000		50,000		50,000	
	Lamp Model #	N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A	
	Type of Lamp Socket	N/A		N/A		N/A		N/A		N/A		N/A		LED Chip		LED Chip		LED Chip		LED Chip		LED Chip		LED Chip	
Night Light Specs	Night Light Watts	N/A		N/A		N/A		N/A		N/A		N/A		0.2		0.2		0.2		0.2		0.2		0.2	
Shipping	Gross Weight (lbs)	11.0		11.0		11.0		11.2		11.2		11.2		11.7		11.7		11.7		11.9		11.9		11.9	
Approved Code/ Standard/ Regulation	UL tub/Shower Enclosure	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes	
	Washington VIAQ Code	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes	
	Wall installation	No		No		No		No		No		No		No		No		No		No		No		No	
	California Title 24 Compliant	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes	
	Mfg in ISO 9001 Certified Facility	Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes	

*As tested by an EPA recognized lab

NOTE: 0.25" w.g. = Installed Performance

LED Lighting
WhisperCeiling® DC™ fan/light models feature a contemporary flush mount grille that incorporates one long life 10W Dimmable LED chip panel with <1W LED night light for warm, long-life energy efficient illumination. Panel specifications include: 3000 Kelvin Warm White/90CRI/700 lumens/70 LPW/ENERGY STAR 2.0 certified/JA-8 compliant for CA Title 24/ 50,000 hours rated average.

FV-0511VQ1



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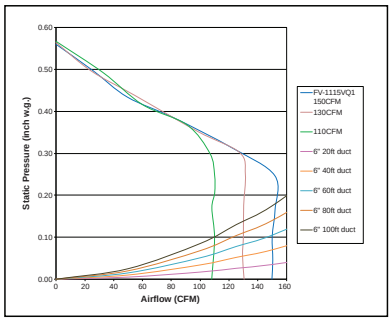

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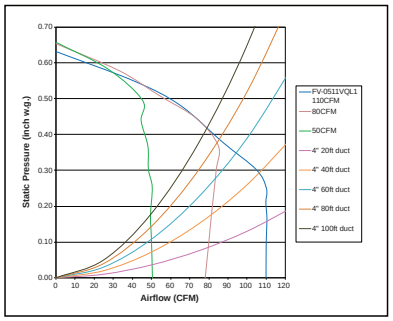

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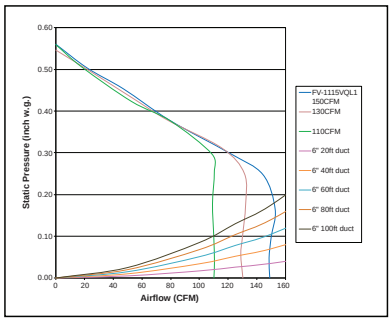

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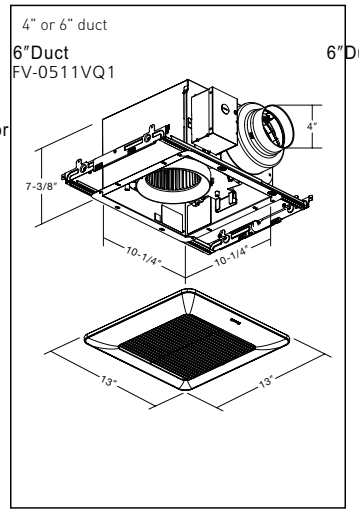

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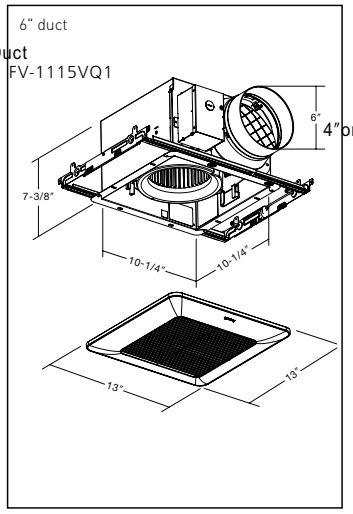

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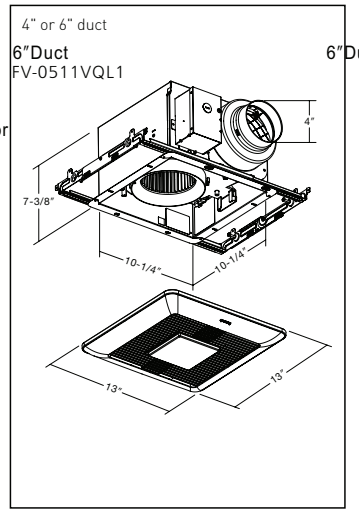

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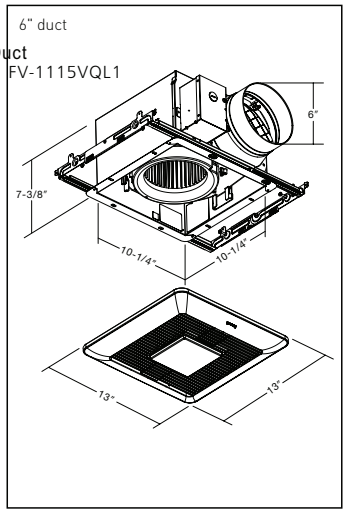

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FV-0510VS1
FV-0810VSS1
FV-0510VSC1

FV-0510VSL1
FV-0810VSSL1
FV-0510VSCL1

WhisperValue® DC™ Ventilation Fans and Fan/Lights

- **Revolutionary ECM motor with SmartFlow™ technology for optimum CFM output**
- **Pick-A-Flow™ Speed Selector – one fan, you choose the CFM (50[1], 80 or 100 CFM)**
- **Optional built-in Multi-Speed Control for ASHRAE 62.2 compliance[2]**
- **Optional built-in Condensation Sensor to control moisture in the bathroom[3]**
- **Lighted models incorporate one 10W dimmable LED chip panel with <1W LED night light for warm, energy efficient illumination (night light must be wired separately)**
- 3-3/8" Housing Depth – lowest profile ENERGY STAR® fan available – fits anywhere!
- Unique L-Shaped bracket simplifies installation and provides strong support
- UL approved for ceiling or wall mount (actually fits in a 2 x 4 stud wall)
- Wall Installation reduces cost by eliminating the need to incorporate a radiation damper when penetrating fire rated ceilings, making it ideal for Multi-Family applications
- Can be used to comply with ASHRAE 62.2, LEED, IAP, California Title 24, CALGreen[4] and WA Ventilation Code

ADDITIONAL BENEFITS

- 24 gauge steel, fire code rated 4" oval to 3" round duct adapter, sold separately (model # FV-VS43R)
- Transfer Register Box (model # FV-JD, sold separately), provides room-to-room powered circulation with ductless heat pumps
- UL listed for use with the Panasonic Ceiling Radiation Damper (model # PC-RD05C5)
- UL listed for tub/shower enclosure when GFCI protected
- Warranty[5]: 6 years ECM Motor, 5 years LED, 3 years all other parts

[1] 50 CFM option not included in FV-0810VSS1 and FV-0810VSSL1

[2] FV-0810VSS1 and FV-0810VSSL1 only

[3] FV-0510VSC1 and FV-0510VSCL1 only

[4] FV-0510VSC1 and FV-0510VSCL1 only, or when other WhisperValue DC models are combined with a Panasonic Condensation Sensor Plus(FV-WCCS1-W/A or FV-WCCS2-W/A)

[5] One year additional fan or fan/light warranty available when WhisperValue DC is controlled by a Panasonic Condensation Sensor Plus.

Installed Performance

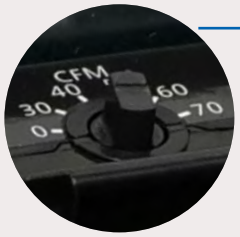
ECM Motor with SmartFlow™ Technology

WhisperValue® DC™ is designed to perform as rated. When the fan senses static pressure, its speed is automatically increased to ensure optimal CFM output. This feature provides peace of mind, as the installer doesn't have to worry about compromising the fan's performance, even with a complicated duct run.

Pick-A-Flow Speed Technology

Built-in Pick-A-Flow speed selector provides the unique ability to select your required airflow (50-80 -100 CFM) with the simple flip of a switch.

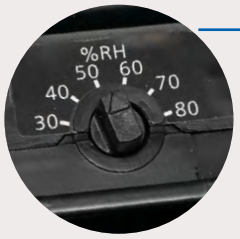
Optional Built-In Controls



Multi-Speed for ASHRAE 62.2 Compliance

(FV-0810VSS1 and FV-0810VSSL1 only)

Multi-Speed for ASHRAE 62.2 Compliance allows you to select the proper CFM settings to satisfy ASHRAE 62.2 continuous ventilation requirements. The fan runs continuously at a preset lower level (0, 30-70, in 10 CFM increments), then elevates to a maximum level of operation (80 or 100 CFM) when the wall switch is turned on.



Condensation Sensor

(FV-0510VSC1 and FV-0510VSCL1 only)

Condensation Sensor 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. The fan will run for 20 minutes before turning off.

LED Lighting

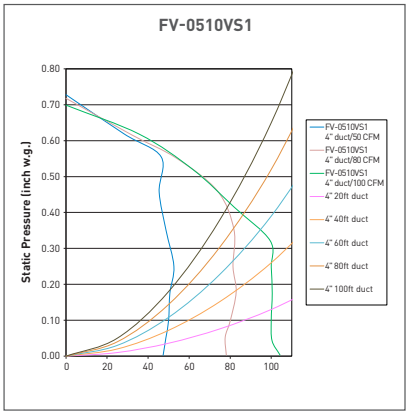
WhisperValue® DC™ fan/light models feature a contemporary flush mount grille that incorporates one 10W Dimmable LED chip panel with <1W LED night light for warm, energy efficient illumination. Panel specifications include: 3000 Kelvin Warm White/90CRI/700 lumens/70 LPW/ENERGY STAR 2.0 certified/50,000 hours rated average life.

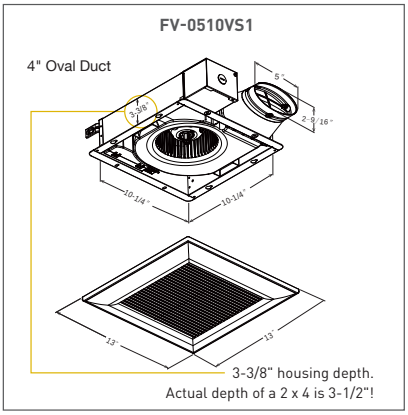
WhisperValue® DC™ to WhisperValue®/ WhisperValue® Lite™ Cross Reference

	WhisperValue® DC™		WhisperValue®/ WhisperValue® Lite™	
	New Model #	Description	Discontinued Model #	Description
Fan Only	FV-0510VS1	Fan Only, 50-80-100 CFM	FV-05VS3	Fan Only, 50 CFM
			FV-08VS3	Fan Only, 80 CFM
			FV-10VS3E	Fan Only, 100 CFM
	FV-0510VSC1	Fan Only, 50-80-100 CFM, Condensation Sensor	N/A	N/A
	FV-0810VSS1	Fan Only, 80-100 CFM, Multi-Speed for ASHRAE 62.2	N/A	N/A
Fan/LED Light	FV-0510VSL1	Fan/LED Light, 50-80-100 CFM	FV-08VSL3	Fan/CFL Light, 80 CFM
			FV-10VSL3E	Fan/CFL Light, 100 CFM
	FV-0510VSCL1	Fan/LED Light, 50-80-100 CFM, Condensation Sensor	N/A	N/A
	FV-0810VSSL1	Fan/LED Light, 80-100 CFM, Multi-Speed for ASHRAE 62.2	N/A	N/A
Contractor Packs	FV-0510VSA1	FV-0510VS1 Housing Can	FV-05-10VSA3	Universal Housing Can
	FV-0510VSB1	FV-0510VS1 Motor/Grille Assembly, 50-80-100 CFM	FV-05VSB3	Motor/Grille Assembly, 50 CFM
			FV-08VSB3	Motor/Grille Assembly, 80 CFM
			FV-10VSB3E	Motor/Grille Assembly, 100 CFM

WhisperValue® DC™ VENTILATION FAN

FV-0510VS1





WhisperValue® DC™ 4" Oval Duct (Fan Only Models)							
SPECIFICATIONS		FV-0510VS1					
	Duct Diameter (Inches)	4 Oval		4 Oval		4 Oval	
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25
	Air Volume (CFM)	100	100	80	81	50	53
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.5
	Power Consumption (watts)	11.1	16.0	7.2	11.5	4.4	7.5
	Energy Efficiency (CFM/Watt)	9.2	6.4	11.4	7.2	12.8	7.9
	Speed (RPM)	902	1121	797	1070	708	1025
	Current (amps)	0.20	0.27	0.13	0.20	0.09	0.14
	MAX. Current (amps)	0.39					
	Power Rating (V/Hz)	120/60					
Specifications	Motor Type	ECM					
	Type of Motor Bearing	Ball					
	Thermal Fuse Protection	Yes					
	Blower Wheel Type	Sirocco					
	ENERGY STAR Qualified	Yes					
Installation	Duct Diameter (Inches)	4 Oval					
	Mounting Opening (Inches sq.)	10-1/2					
	Grille Size (Inches sq.)	13					
Light Specifications	Lamp Watts	N/A					
	Lumens (lm)	N/A					
	Lumens Per Watt (LPW)	N/A					
	Color Rendering Index	N/A					
	Color Temperature (Kelvin)	N/A					
	Rated Life (hours)	N/A					
	Lamp Model #	N/A					
	Type of Lamp Socket	N/A					
Night Light Specs	Night Light Watts	N/A					
Shipping	Gross Weight (lbs)	8.8					
Approved Code/Standard/Regulation	UL tub/Shower Enclosure	Yes					
	Washington VIAQ Code	Yes					
	California Title 24 Compliant	Yes					
	Mfg in ISO 9001 Certified Facility	Yes					

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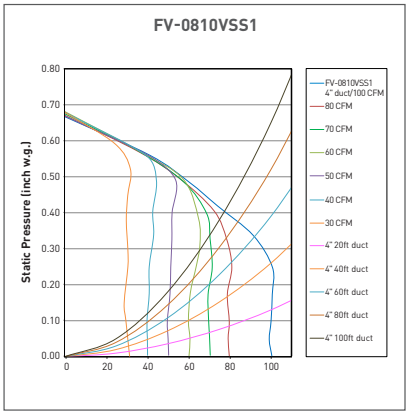
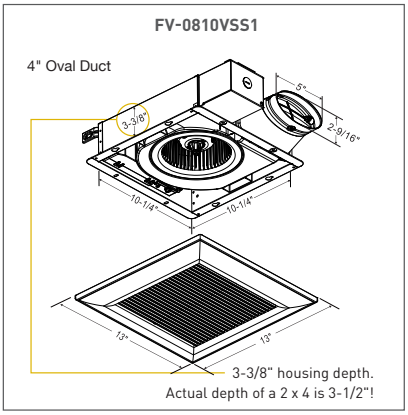
*As tested by an EPA recognized lab **NOTE: 0.25" w.g. = INSTALLED PERFORMANCE**

WhisperValue® DC™ VENTILATION FAN

FV-0810VSS1





WhisperValue® DC™ 4" Oval Duct (Fan Only Models)

SPECIFICATIONS		FV-0810VSS1													
	Duct Diameter (Inches)	4 Oval		4 Oval		4 Oval		4 Oval		4 Oval		4 Oval		4 Oval	
Characteristics (HVI tested data for 0.1" S.P.)	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
	Air Volume (CFM)	100	101	80	81	70	72	60	64	50	52	40	41	30	31
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.6	<0.3	0.6	<0.3	0.5	<0.3	0.5	<0.3	0.5
	Power Consumption (watts)	12.4	18.0	8.5	13.2	6.5	10.8	5.3	9.3	4.5	7.7	3.8	6.7	3.4	6.0
	Energy Efficiency (CFM/Watt)	8.2	5.7	10.0	6.5	11.2	6.9	11.8	7.2	12.1	7.3	11.8	6.9	10.2	6.0
	Speed (RPM)	954	1176	856	1114	805	1088	770	1076	733	1050	723	1037	711	1033
	Current (amps)	0.18	0.25	0.13	0.20	0.10	0.16	0.09	0.15	0.08	0.13	0.07	0.11	0.06	0.10
	MAX. Current (amps)	0.39													
	Power Rating (V/Hz)	120/60													
Specifications	Motor Type	ECM													
	Type of Motor Bearing	Ball													
	Thermal Fuse Protection	Yes													
	Blower Wheel Type	Sirocco													
	ENERGY STAR Qualified	Yes													
Installation	Duct Diameter (Inches)	4 Oval													
	Mounting Opening (Inches sq.)	10-1/2													
	Grille Size (Inches sq.)	13													
Light Specifications	Lamp Watts	N/A													
	Lumens (lm)	N/A													
	Lumens Per Watt (LPW)	N/A													
	Color Rendering Index	N/A													
	Color Temperature (Kelvin)	N/A													
	Rated Life (hours)	N/A													
	Lamp Model #	N/A													
	Type of Lamp Socket	N/A													
Night Light Specs	Night Light Watts	N/A													
Shipping	Gross Weight (lbs)	9.0													
Approved Code/Standard/ Regulation	UL tub/Shower Enclosure	Yes													
	Washington VIAQ Code	Yes													
	California Title 24 Compliant	Yes													
	Mfg in ISO 9001 Certified Facility	Yes													

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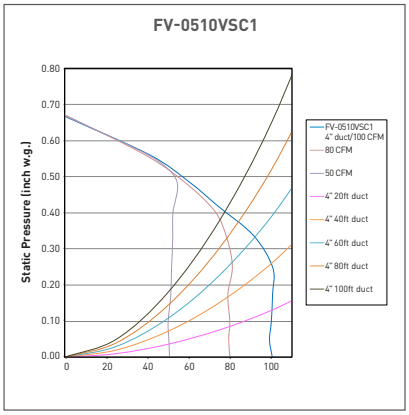
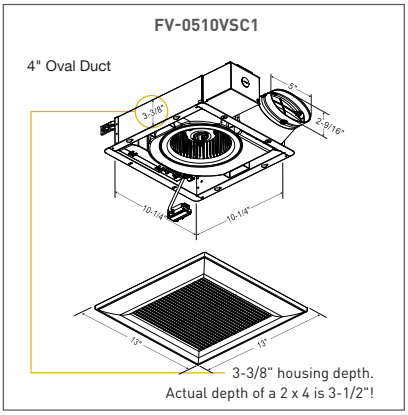
WhisperValue® DC™
VENTILATION FAN

SMART FLOW DC TECHNOLOGY

FV-0510VSC1





WhisperValue® DC™ 4" Oval Duct (Fan Only Models)							
SPECIFICATIONS		FV-0510VSC1					
	Duct Diameter (Inches)	4 Oval		4 Oval		4 Oval	
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25
	Air Volume (CFM)	100	101	80	81	50	52
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.5
	Power Consumption (watts)	12.4	18.0	8.5	13.2	4.5	7.7
	Energy Efficiency (CFM/Watt)	8.2	5.7	10.0	6.5	12.1	7.3
	Speed (RPM)	954	1176	856	1114	733	1050
	Current (amps)	0.18	0.25	0.13	0.20	0.08	0.13
	MAX. Current (amps)	0.39					
	Power Rating (V/Hz)	120/60					
Specifications	Motor Type	ECM					
	Type of Motor Bearing	Ball					
	Thermal Fuse Protection	Yes					
	Blower Wheel Type	Sirocco					
	ENERGY STAR Qualified	Yes					
Installation	Duct Diameter (Inches)	4 Oval					
	Mounting Opening (Inches sq.)	10-1/2					
	Grille Size (Inches sq.)	13					
Light Specifications	Lamp Watts	N/A					
	Lumens (lm)	N/A					
	Lumens Per Watt (LPW)	N/A					
	Color Rendering Index	N/A					
	Color Temperature (Kelvin)	N/A					
	Rated Life (hours)	N/A					
	Lamp Model #	N/A					
	Type of Lamp Socket	N/A					
Night Light Specs	Night Light Watts	N/A					
Shipping	Gross Weight (lbs)	9.0					
Approved Code/Standard/Regulation	UL tub/Shower Enclosure	Yes					
	Washington VIAQ Code	Yes					
	California Title 24 Compliant	Yes					
	Mfg in ISO 9001 Certified Facility	Yes					

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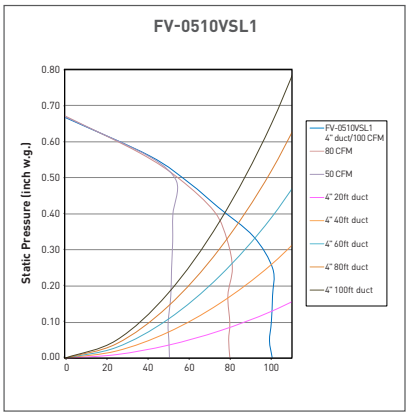
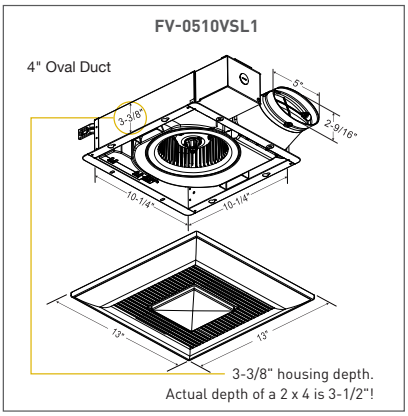
*As tested by an EPA recognized lab **NOTE: 0.25" w.g. = INSTALLED PERFORMANCE**

WhisperValue® DC™ VENTILATION FAN

FV-0510VSL1





WhisperValue® DC™ 4" Oval Duct (Fan/LED Light Models)

SPECIFICATIONS		FV-0510VSL1					
	Duct Diameter (Inches)	4 Oval		4 Oval		4 Oval	
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25
	Air Volume (CFM)	100	101	80	81	50	52
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.5
	Power Consumption (watts)	12.4	18.0	8.5	13.2	4.5	7.7
	Energy Efficiency (CFM/Watt)	8.2	5.7	10.0	6.5	12.1	7.3
	Speed (RPM)	954	1176	856	1114	733	1050
	Current (amps)	0.18	0.25	0.13	0.20	0.08	0.13
	MAX. Current (amps)	0.39					
	Power Rating (V/Hz)	120/60					
Specifications	Motor Type	ECM					
	Type of Motor Bearing	Ball					
	Thermal Fuse Protection	Yes					
	Blower Wheel Type	Sirocco					
	ENERGY STAR Qualified	Yes					
Installation	Duct Diameter (Inches)	4 Oval					
	Mounting Opening (Inches sq.)	10-1/2					
	Grille Size (Inches sq.)	13					
Light Specifications	Lamp Watts	10.0					
	Lumens (lm)	700					
	Lumens Per Watt (LPW)	70					
	Color Rendering Index	90					
	Color Temperature (Kelvin)	3,000					
	Rated Life (hours)	50,000					
	Lamp Model #	N/A					
	Type of Lamp Socket	LED chip					
Night Light Specs	Night Light Watts	0.2					
Shipping	Gross Weight (lbs)	9.9					
Approved Code/Standard/Regulation	UL tub/Shower Enclosure	Yes					
	Washington VIAQ Code	Yes					
	California Title 24 Compliant	Yes					
	Mfg in ISO 9001 Certified Facility	Yes					

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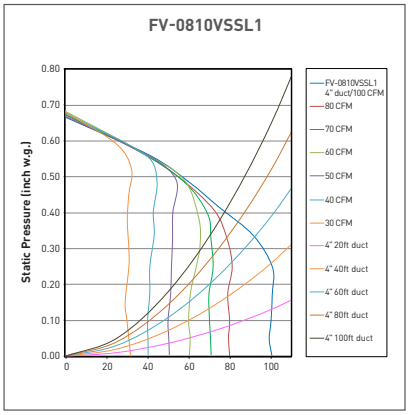
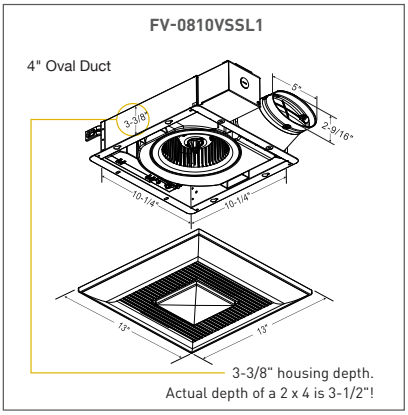
*As tested by an EPA recognized lab **NOTE: 0.25" w.g. = INSTALLED PERFORMANCE**

WhisperValue® DC™ VENTILATION FAN

FV-0810VSSL1





WhisperValue® DC™ 4" Oval Duct (Fan/LED Light Models)

SPECIFICATIONS		FV-0810VSSL1													
	Duct Diameter (Inches)	4 Oval		4 Oval		4 Oval		4 Oval		4 Oval		4 Oval		4 Oval	
Characteristics (HVI tested data for 0.1" S.P.)	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
	Air Volume (CFM)	100	101	80	81	70	72	60	64	50	52	40	41	30	31
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.6	<0.3	0.6	<0.3	0.5	<0.3	0.5	<0.3	0.5
	Power Consumption (watts)	12.4	18.0	8.5	13.2	6.5	10.8	5.3	9.3	4.5	7.7	3.8	6.7	3.4	6.0
	Energy Efficiency (CFM/Watt)	8.2	5.7	10.0	6.5	11.2	6.9	11.8	7.2	12.1	7.3	11.8	6.9	10.2	6.0
	Speed (RPM)	954	1176	856	1114	805	1088	770	1076	733	1050	723	1037	711	1033
	Current (amps)	0.18	0.25	0.13	0.20	0.10	0.16	0.09	0.15	0.08	0.13	0.07	0.11	0.06	0.10
	MAX. Current (amps)	0.39													
	Power Rating (V/Hz)	120/60													
Specifications	Motor Type	ECM													
	Type of Motor Bearing	Ball													
	Thermal Fuse Protection	Yes													
	Blower Wheel Type	Sirocco													
	ENERGY STAR Qualified	Yes													
Installation	Duct Diameter (Inches)	4 Oval													
	Mounting Opening (Inches sq.)	10-1/2													
	Grille Size (Inches sq.)	13													
Light Specifications	Lamp Watts	10.0													
	Lumens (lm)	700													
	Lumens Per Watt (LPW)	70													
	Color Rendering Index	90													
	Color Temperature (Kelvin)	3,000													
	Rated Life (hours)	50,000													
	Lamp Model #	N/A													
	Type of Lamp Socket	LED Chip													
Night Light Specs	Night Light Watts	0.2													
Shipping	Gross Weight (lbs)	9.9													
Approved Code/Standard/ Regulation	UL tub/Shower Enclosure	Yes													
	Washington VIAQ Code	Yes													
	California Title 24 Compliant	Yes													
	Mfg in ISO 9001 Certified Facility	Yes													

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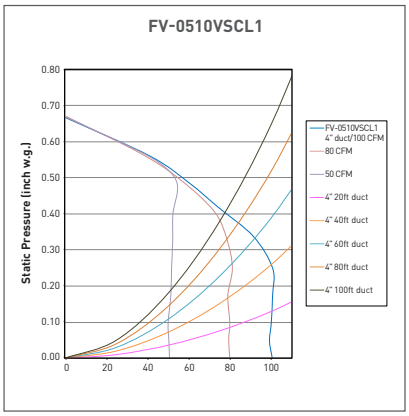
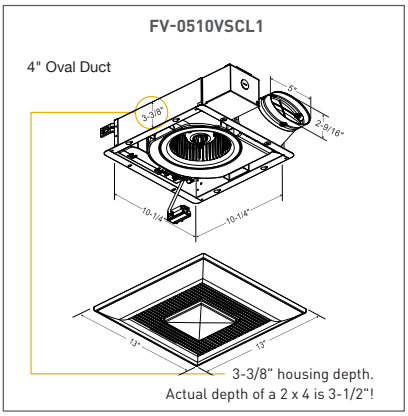
*As tested by an EPA recognized lab

NOTE: 0.25" w.g. = INSTALLED PERFORMANCE

WhisperValue® DC™ VENTILATION FAN

FV-0510VSCL1





WhisperValue® DC™ 4" Oval Duct (Fan/LED Light Models)

SPECIFICATIONS		FV-0510VSCL1					
	Duct Diameter (Inches)	4 Oval		4 Oval		4 Oval	
Characteristics (HVI tested data for 0.1" S.P.)	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25
	Air Volume (CFM)	100	101	80	81	50	52
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.5
	Power Consumption (watts)	12.4	18.0	8.5	13.2	4.5	7.7
	Energy Efficiency (CFM/Watt)	8.2	5.7	10.0	6.5	12.1	7.3
	Speed (RPM)	954	1176	856	1114	733	1050
	Current (amps)	0.18	0.25	0.13	0.20	0.08	0.13
	MAX. Current (amps)	0.39					
	Power Rating (V/Hz)	120/60					
Specifications	Motor Type	ECM					
	Type of Motor Bearing	Ball					
	Thermal Fuse Protection	Yes					
	Blower Wheel Type	Sirocco					
	ENERGY STAR Qualified	Yes					
Installation	Duct Diameter (Inches)	4 Oval					
	Mounting Opening (Inches sq.)	10-1/2					
	Grille Size (Inches sq.)	13					
Light Specifications	Lamp Watts	10.0					
	Lumens (lm)	700					
	Lumens Per Watt (LPW)	70					
	Color Rendering Index	90					
	Color Temperature (Kelvin)	3,000					
	Rated Life (hours)	50,000					
	Lamp Model #	N/A					
	Type of Lamp Socket	LED chip					
Night Light Specs	Night Light Watts	0.2					
Shipping	Gross Weight (lbs)	9.9					
Approved Code/Standard/Regulation	UL tub/Shower Enclosure	Yes					
	Washington VIAQ Code	Yes					
	California Title 24 Compliant	Yes					
	Mfg in ISO 9001 Certified Facility	Yes					

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*As tested by an EPA recognized lab

NOTE: 0.25" w.g. = INSTALLED PERFORMANCE

Design and specifications subject to change without notice.

Panasonic Canada Inc.
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Mississauga, ON
L4W 2 T3

business.panasonic.ca/ventilation

Panasonic

Panasonic

BEST OF IBS AWARDS WINNER 2017 BEST ENERGY EFFICIENT PRODUCT

FV-10VEC1 (Cold Climate)
FV-10VE1 (Temperate Climate)

Intelli-Balance™ 100 Energy Recovery Ventilator

- Designed for multi-family dwellings and new air tight homes built to meet energy efficiency standards
- Engineered for use in any North America Climate Zone
- Two (2) revolutionary DC motors with Smart Flow™ technology ensure optimum CFM output
- Pick-A-Flow speed selector (50 to 100 CFM) provides customizable airflow to create balanced, positive or negative pressure within the home
- Exclusive built-in ASHRAE 62.2 timing function helps ensure code compliance
- MERV 8 filter included; optional MERV 8 and MERV 13 replacements available
- Connect to existing ductwork or use as a standalone, whole-house ventilation solution
- Can be used to meet green building code requirements and helps minimize the impact to your HERS/ERI index

ADDITIONAL BENEFITS

- Patented exchange capillary core recovers heat and moisture
- Three mounting options - wall, ceiling or on a shelf
- Four integrated dual 4" or 6" duct adapters (2 exhaust, 2 supply)
- Includes static pressure access ports with balancing instructions on the ERV
- Model FV-10VEC1 meets Ontario, ENERGY STAR®* and Novoclimat requirements
- 6 Year Warranty on DC motor, 3 Years on all other parts

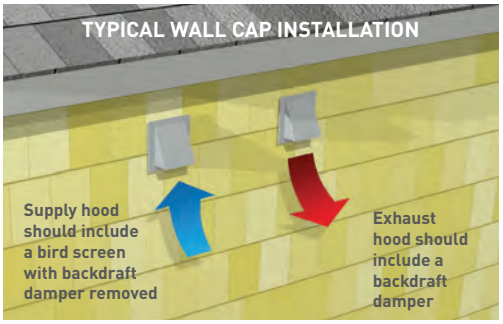
*Meets strict energy efficiency guidelines set by Natural Resources Canada and is ENERGY STAR® certified for the Canadian market only.

Optional Accessories (Sold Separately):

FV-FL0810VE1: MERV 8 Replacement Filter

FV-FV1310VE1: MERV 13 Optional Replacement Filter

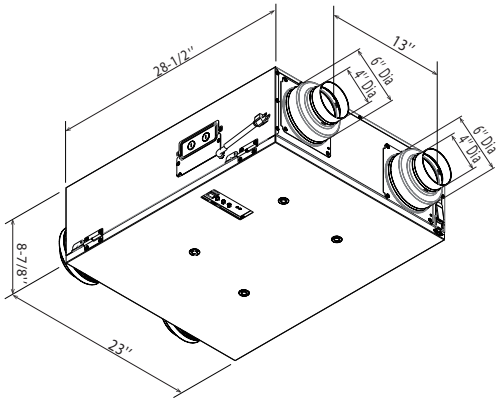
FV-WC04VE1: Optional Exterior Wall Cap



FV-WC04VE1*

*FV-WC04VE1 is ideal for use in smaller, multi-family applications. It is not recommended for use at CFM settings higher than 50 CFM.

FV-10VEC1/FV-10VE1



INSTALLATION

Mounting: Intelli-Balance 100 can easily be mounted in the ceiling or on a wall using the included cleat hanger bar. It measures 23" wide and fits between joists 16" on center. Adjustable brackets and screws are provided to secure the unit to the joist on 4 corners. Intelli-Balance 100 can also be chain mounted and suspended. It is recommended that you use 4 chains, 20-24" in length with a weight capacity of +66 pounds.

Wiring: Power consumption is 64 Watts on FV-10VEC1 and 62 Watts on FV-10VE1, with a power rating of 120/60 V/Hz.

Duct: Insulated 4"or 6" duct is recommended.

Static Pressure Access Ports: The unit's access panel incorporates static pressure ports for measuring the differential pressure of fresh air and exhaust air so the dampers can be adjusted for balancing airflows.

Intelli-Balance 100	FV-10VEC1		FV-10VE1	
Characteristics	COLD CLIMATE		TEMPERATE CLIMATE	
Static pressure in inches w.g.	0.1	0.4	0.1	0.4
Net Exhaust Air Volume (CFM)	96	95	95	95
Net Supply Air Volume (CFM)	98	96	99.0	101
Power Consumption (Watts)	64.0	84.0	62.0	80.0
Power Rating (V/Hz)	120/60		120/60	

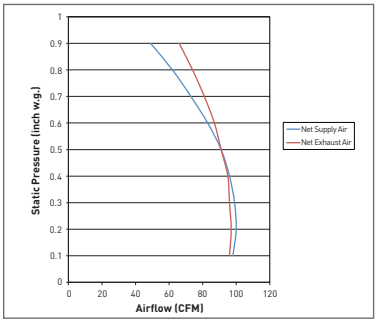
FV-10VEC1

Supply Temperature		Net Air Flow		Power Consumed (Watts)	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
°C	°F	L/S	CFM				
Heating							
0	32	25	53	24	81	88	0.8
0	32	31	67	34	77	86	0.76
0	32	40	86	54	75	83	0.72
-25	-13	27	57	66	65	85	0.7
-25	-13	32	68	84	64	80	0.7
Cooling					Total Recovery Efficiency		
35	95	23	48	16	65		

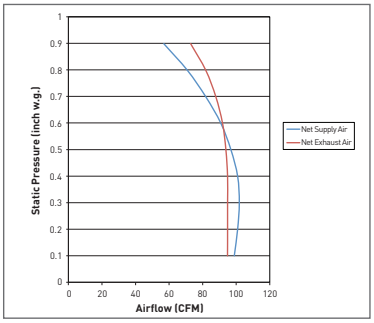
FV-10VE1

Supply Temperature		Net Air Flow		Power Consumed (Watts)	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
°C	°F	L/S	CFM				
Heating							
0	32	25	54	20	79	90	0.76
0	32	32	67	28	79	88	0.76
0	32	41	87	46	75	85	0.72
-25	-13	-	-	-	-	-	-
-25	-13	-	-	-	-	-	-
Cooling					Total Recovery Efficiency		
35	95	25	52	22	73		

FV-10VEC1 50-80-100 CFM 4 x 4" or 6" Ducts



FV-10VE1 50-80-100 CFM 4 x 4" or 6" Ducts



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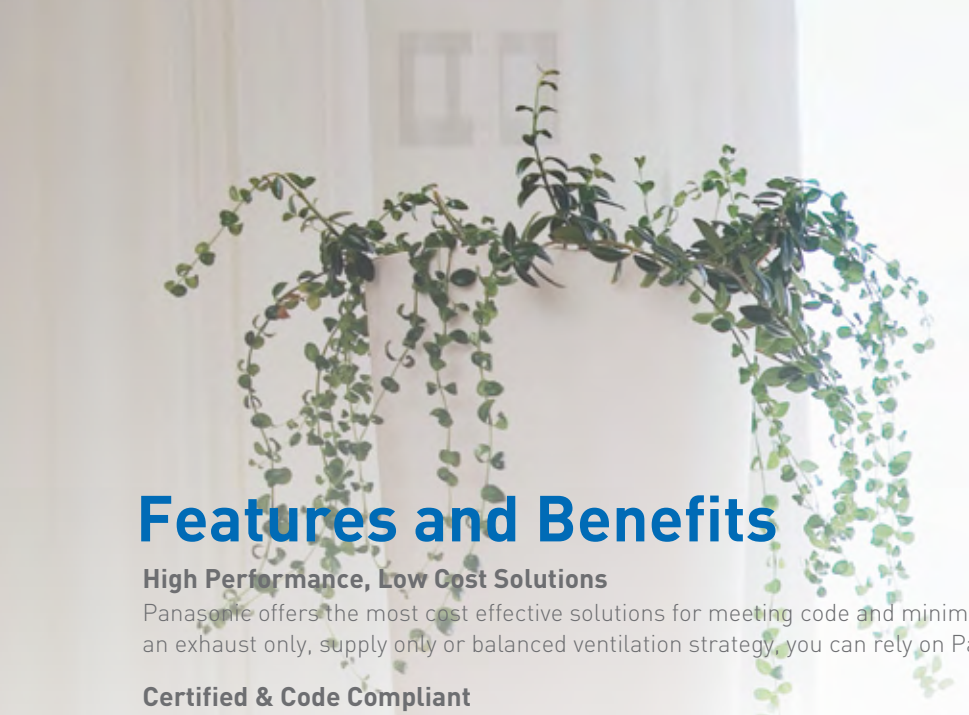
Design and specifications subject to change without notice.

VF16547CA

Panasonic



Features and Benefits

High Performance, Low Cost Solutions
Panasonic offers the most cost effective solutions for meeting code and minimizing the impact to your HERS index. Whether utilizing an exhaust only, supply only or balanced ventilation strategy, you can rely on Panasonic for unmatched quality and value.

Certified & Code Compliant
Panasonic ventilation fans are certified by the Home Ventilating Institute (HVI) and ENERGY STAR® certified, where guidelines exist. All models can be used to comply with ASHRAE 62.2, the ventilation standard required by LEED for Homes, ENERGY STAR® for Homes 3.0 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. Our fans have also been engineered to comply with ENERGY STAR® 4.0 requirements for increased efficiency (CFM/Watt), ensuring low cost, energy efficient operation.

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 fan/heaters, all models are UL listed for tub/shower enclosure when GFCI protected.

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 an optional 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, 3-Year warranty on CFLs and 3-Year warranty on all other parts.