

Specification Submittal Data / Panasonic Ventilation Fan

Description:

Ventilating fan shall be Low Noise ceiling or wall mount type rated for continuous run. Fan shall be ENERGY STAR® rated and certified by the Home Ventilation Institute (HVI). Evaluated by Underwriters Laboratories and conform to both UL and cUL safety standards.

Motor/Blower:

- Enclosed DC brushless motor technology rated for continuous run.
- Fan ventilation rates shall be manually adjustable for 50-80-100 CFM.
- Power rating shall be 120 volts and 60 Hz.
- Fan shall be UL and cUL listed for tub/shower enclosure when GFCI protected and used in insulated ceiling (TYPE I.C).
- Motor equipped with thermal–cutoff fuse.
- Removable with permanently lubricated plug-in motor.

Housing:

- Rust proof epoxy and polyester resin coating, 26 gauge galvanized steel body.
- 4" round compatible, oval duct.
- Optional 24 gauge steel, fire code rated 4" oval to 3" round duct adaptor sold separately (Model # FV-VS43R).
- Built in backdraft damper.
- 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.
- Unique L-shaped bracket simplifies installation and provides strong support.

Grille:

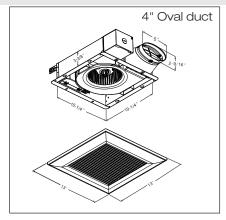
- Attractive design using Poly Pro material.
- Attaches directly to housing with torsion springs.

Warranty:

- DC Motor: 6 Years from original purchase date.
- ALL Parts: 3 Years from original purchase date.

Architectural Specifications:

Ventilation fan shall be ceiling or wall mount, ENERGY STAR® certified, with a built-in speed selector. Choose from 50-80-100 CFM and no more than <0.3/0.4/0.9 sone as certified by the Home Ventilating Institute (HVI) at 0.1 static pressure in inches water gauge (w.g.) with no less than 53/81/100 CFM and no more than 0.5/0.8/1.3 sone as certified by HVI at 0.25 w.g. Power Consumption shall be no greater than 4.4/7.2/11.1 watts at 0.1 w.g. and 7.5/11.5/16.0 watts at 0.25 w.g., with efficiency of no less than 12.8/11.4/9.2 CFM/watt at 0.1 w.g. and 7.9/7.2/6.4 CFM/watt at 0.25 w.g. The motor shall be totally enclosed with a brushless DC motor engineered to run continuously. DC motor speed shall automatically increase when the fan senses static pressure to maintain selected CFM. Power rating shall be 120v/60Hz. Duct diameter shall be no less than 4". Optional 24 gauge steel, fire code rated 4" oval to 3" round duct adaptor sold separately (Model # FV-VS43R). Fan shall be UL and cUL listed for ceiling or wall installation and tub/shower enclosure when GFCI protected. Fan can be used to comply with ASHRAE 62.2, LEED, EarthCraft, California Title-24 and WA



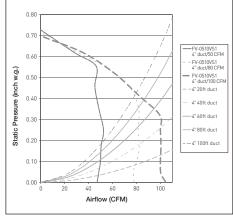
FV-0510VS1



DC Motor Technology

When the fan senses static pressure, its speed is automatically increased to ensure that the desired CFM is not compromised, which allows the fan to perform as rated.

Performance Curve 4" Oval duct



Specifications:	WhisperValueDC FV-0510VS1	4" (Oval	4" (Oval	4" Oval					
	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				
Ventilation Fan	Power Consumption (watts)	11.1	16.0	7.2	11.5	4.4	7.5				
Characteristics	Energy Efficiency (CFM/Watt)	9.2	6.4	11.4	7.2	12.8	7.9				
(HVI Certified	Speed (RPM)	902	1121	797	1070	708	1025				
Data)	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									
	ENERGY STAR rated	YES									

Ventilation Code.

0.25=Installed Performance

For complete Installation Instructions visit **panasonic.com**

Model	Quantity	Comments	Project:
			Location:
			Architect:
			Engineer:
			Contractor:
			Submitted by:
			Date:

Panasonic Canada Inc Home and Building Solutions 5770 Ambler Drive Mississauga, ON

panasonic.com







Panasonic



WhisperValue® DC™ Ventilation Fans and Fan/Lights

WhisperValue DC TO VENTUATION FAN

Fan Only Models: FV-0510VS1, FV-0810VSS1, FV-0510VSC1 Fan/Light Models: FV-0510VSL1, FV-0810VSSL1, FV-0510VSCL1



Powerful CFM output overcomes **0.375**" static pressure to effectively remove moist, polluted air*

(See PQ Curves)





- Pick-A-Flow™ Airflow Selector (50¹, 80 or 100 CFM) combined with SmartFlow™ technology simplifies the selection process and ensures optimum performance to meet code and reduce callbacks
- Optional built-in Multi-Speed Control for ASHRAE 62.2 compliance²
- Optional built-in Condensation Sensor to control moisture in the bathroom³
- 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, CALGreen⁴ 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
- Warranty⁵: 6 years ECM Motor, 5 years LED, 3 years all other parts





Industry research indicates static pressure in typical installations ranges from 0.20" to 0.375"

¹⁵⁰ 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 Airflow Technology

Built-in Pick-A-Flow Airflow 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.

	Wi	hisperValue® DC™ to WhisperValue®/ Wh	nisperValue® Lite	™ Cross Reference
		WhisperValue® DC™	Whisp	erValue®/ WhisperValue® Lite™
	New Model #	Description	Discontinued Model #	Description
			FV-05VS3	Fan Only, 50 CFM
	FV-0510VS1	Fan Only, 50-80-100 CFM	FV-08VS3	Fan Only, 80 CFM
Fan Only			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
	FV-0510VSL1	Fan/LED Light, 50-80-100 CFM	FV-08VSL3	Fan/CFL Light, 80 CFM
Fan/LED Light	1 4-03104321	Tany LED Eight, 30-00-100 Of M	FV-10VSL3E	Fan/CFL Light, 100 CFM
Tall/LLD Light	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
	FV-0510VSA1	FV-0510VS1 Housing Can	FV-05-10VSA3	Universal Housing Can
Contractor			FV-05VSB3	Motor/Grille Assembly, 50 CFM
Packs	FV-0510VSB1	FV-0510VS1 Motor/Grille Assembly, 50-80-100 CFM	FV-08VSB3	Motor/Grille Assembly, 80 CFM
			FV-10VSB3E	Motor/Grille Assembly, 100 CFM

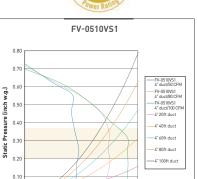
High Performing, Code Compliant Multi-Family Solution



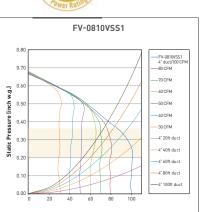




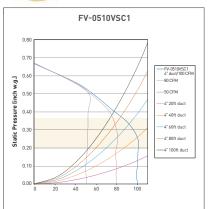


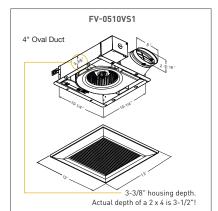


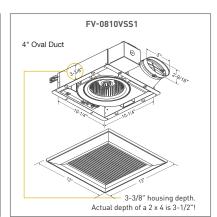


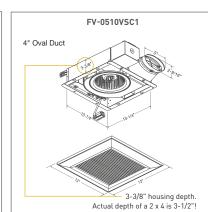










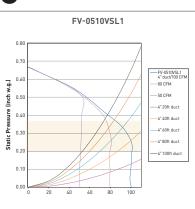


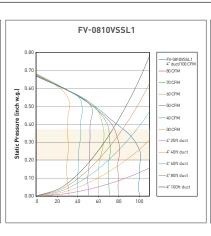
	WhisperValue® DC™ 4" Oval Duct (Fan Only Models) SPECIFICATIONS FV-0510VS1 FV-0510VSC1																											
SF		FV-0510VS1						FV-0810VSS1											FV-0510VSC1									
	Duct Diameter (Inches)	4	Oval	4 ()val	4 (Oval	4 (Oval	4 (Oval	4	Oval	4	Oval	4 (Oval	4	Oval	4 0	Ival	4 (Oval	4	Oval	4 Oval		
	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	0.1	0.25	
	Air Volume (CFM)	100	100	80	81	50	53	100	101	80	81	70	72	60	64	50	52	40	41	30	31	100	101	80	81	50	52	
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.5	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	0.9	1.3	0.4	0.8	<0.3	0.5	
Characteristics	Power Consumption (watts)	11.1	16.0	7.2	11.5	4.4	7.5	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	12.4	18.0	8.5	13.2	4.5	7.7	
(HVI tested data	Energy Efficiency (CFM/Watt)	9.2	6.4	11.4	7.2	12.8	7.9	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	8.2	5.7	10.0	6.5	12.1	7.3	
for 0.1" S.P.)	Speed (RPM)	902	1121	797	1070	708	1025	954	1176	856	1114	805	1088	770	1076	733	1050	723	1037	711	1033	954	1176	856	1114	733	1050	
	Current (amps)	0.20	0.27	0.13	0.20	0.09	0.14	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	0.18	0.25	0.13	0.20	0.08	0.13	
	MAX. Current (amps)	0.39							0.39													0.39						
	Power Rating (V/Hz)	120/60							120/60													120/60						
	Motor Type			E	СМ			ECM													ECM							
	Type of Motor Bearing	Ball							Ball													Ball						
Specifications	Thermal Fuse Protection	Yes							Yes													Yes						
	Blower Wheel Type	Sirocco							Sirocco													Sirocco						
	ENERGY STAR Qualified	Yes							Yes													Yes						
	Duct Diameter (Inches)	4 Oval												4	Oval							4 Oval						
Installation	Mounting Opening (Inches sq.)	10-1/2												10	0-1/2							10-1/2						
	Grille Size (Inches sq.)	13							13													13						
	Lamp Watts	N/A							N/A													N/A						
	Lumens (lm)	N/A							N/A													N/A						
	Lumens Per Watt (LPW)			N	/A			N/A														N/A						
Light Specifications	Color Rendering Index			N	/A			N/A														N/A						
Light Specifications	Color Temperature (Kelvin)			N	/A			N/A														N/A						
	Rated Life (hours)			N	/A			N/A														N/A						
	Lamp Model #			N	/A			N/A															I	N/A				
	Type of Lamp Socket			N	/A			N/A													N/A							
Night Light Specs	Night Light Watts	N/A							N/A													N/A						
Shipping	Gross Weight (lbs)			8	.8			9.0													9.0							
	UL tub/Shower Enclosure			Y	es			Yes														Yes						
Approved Code/Standard/Regulation	Washington VIAQ Code			Y	es			Yes														Yes						
Approved Code/Standard/Regulation	California Title 24 Compliant			Y	es									١	Yes							Yes						
	Mfg in ISO 9001 Certified Facility			Y	es									,	Yes							Yes						

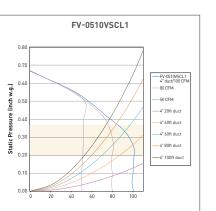


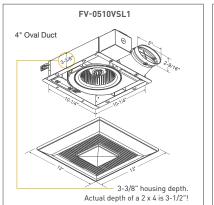
WhisperValue DC VENTILATION FAN

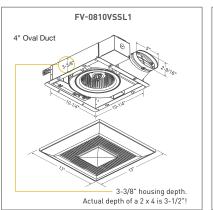


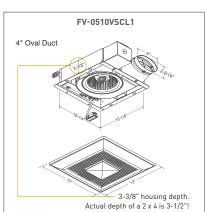












WhisperValue® DC™ 4″ Oval Duct (Fan/LED Light Models)																											
SP	FV-0510VSL1						FV-0810VSSL1													FV-0510VSCL1							
	Duct Diameter (Inches)	4 Oval 4 Oval 4 Oval					4 Oval 4 Oval					4 Oval 4 Oval			4 Oval 4 Oval			val	4 Oval		4 Oval 4 Oval			Oval	4 Oval		
	Static Pressure 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	0.1	0.25
	Air Volume (CFM)	100	101	80	81	50	52	100	101	80	81	70	72	60	64	50	52	40	41	30	31	100	101	80	81	50	52
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.5	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	0.9	1.3	0.4	0.8	<0.3	0.5
Characteristics	Power Consumption (watts)	12.4	18.0	8.5	13.2	4.5	7.7	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	12.4	18.0	8.5	13.2	4.5	7.7
(HVI tested data	Energy Efficiency (CFM/Watt)	8.2	5.7	10.0	6.5	12.1	7.3	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	8.2	5.7	10.0	6.5	12.1	7.3
for 0.1" S.P.)	Speed (RPM)	954	1176	856	1114	733	1050	954	1176	856	1114	805	1088	770	1076	733	1050	723	1037	711	1033	954	1176	856	1114	733	1050
	Current (amps)	0.18	0.25	0.13	0.20	0.08	0.13	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	0.18	0.25	0.13	0.20	0.08	0.13
	MAX. Current (amps)			0.3	39			0.39																0.	39		
	Power Rating (V/Hz)	120/60							120/60													120/60					
	Motor Type			EC	М			ECM														ECM					
Specifications	Type of Motor Bearing	Ball							Ball													Ball					
	Thermal Fuse Protection	Yes							Yes													Yes					
	Blower Wheel Type	Sirocco							Sirocco													Sirocco					
	ENERGY STAR Qualified	Yes							Yes													Yes					
	Duct Diameter (Inches)	4 Oval							4 Oval													4 Oval					
Installation	Mounting Opening (Inches sq.)	10-1/2												10)-1/2							10-1/2					
	Grille Size (Inches sq.)			1	3			13														13					
	Lamp Watts			10	1.0			10.0														10.0					
	Lumens (lm)			70	00			700														700					
	Lumens Per Watt (LPW)			7	0			70														70					
Light Specifications -	Color Rendering Index			9	0			90														90					
Light Specifications	Color Temperature (Kelvin)			3,0	000			3,000														3,000					
	Rated Life (hours)			50,	000			50,000														50,000					
	Lamp Model #			N,	/A			N/A																N	/A		
	Type of Lamp Socket	LED chip							LED Chip													LED chip					
Night Light Specs	Night Light Watts	0.2							0.2												0.2						
Shipping	Gross Weight (lbs)	9.9							9.9													9.9					
	UL tub/Shower Enclosure	Yes							Yes													Yes					
Approved Code/Standard/Regulation	Washington VIAQ Code			Ye	es			Yes													Yes						
Approved Code/Standard/Regulation	California Title 24 Compliant			Ye	es									١	Yes							Yes					
	Mfg in ISO 9001 Certified Facility			Ye	es									1	Yes							Yes					











Panasonic Life Solutions Company of America IAQ Division

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