

Specification Submittal Data / Panasonic Precision Spot Ventilation Fan

Description:

Ventilating fan shall be Low Noise ceiling 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 brushless ECM motor technology rated for continuous run.
- Fan ventilation rates shall be manually adjustable for 50-80-110 CFM.
- Power rating shall be 120 volts and 60 Hz.
- Fan shall be UL and cUL listed for tub/shower enclosure when GFCI protected.
- Motor equipped with thermal-cutoff fuse.
- Removable with permanently lubricated plug-in motor.

Housing:

- 26 gauge Zinc-Aluminum-Magnesium (ZAM) housing
- Integrated dual 4" or 6" diameter duct adapter.
- Built-in damper reduces back drafting and helps with blower door testing.
- 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.
- Articulating and expandable installation bracket up to 24".

Ceiling Radiation Damper:

- WhisperCeiling® DC™ is UL listed for use with the Panasonic Ceiling Radiation Damper (Model #: PC-RD05C5, sold separately).

Grille:

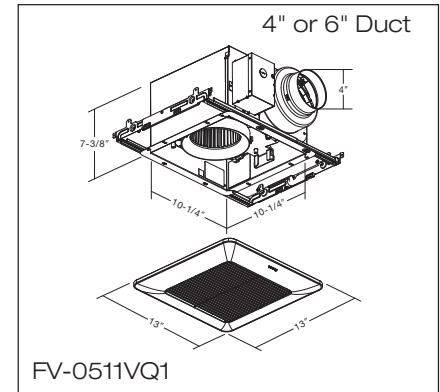
- Attractive design using Poly Pro material.
- Attaches directly to housing with torsion springs.

Warranty:

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

Architectural Specifications:

Ventilation fan shall be UL and cUL listed for ceiling mount and tub/shower enclosure when GFCI protected. Fan shall also be ENERGY STAR® certified, with a built-in speed selector. Choose from 50-80-110 CFM and no more than <0.3/<0.3/<0.3 sone as certified by the Home Ventilating Institute (HVI) at 0.1 static pressure in inches water gauge (w.g.) with no less than 53-83-111 CFM and no more than 0.4/0.6/0.9 sone as certified by HVI at 0.25 w.g. Power Consumption shall be no greater than 4.0/5.9/10.6 watts at 0.1 w.g. and 7.2/10.8/16.4 watts at 0.25 w.g., with efficiency of no less than 12.5/13.6/10.6 CFM/watt at 0.1 w.g. and 7.4/7.7/6.9 CFM/watt at 0.25 w.g. The motor shall be totally enclosed with a brushless ECM motor engineered to

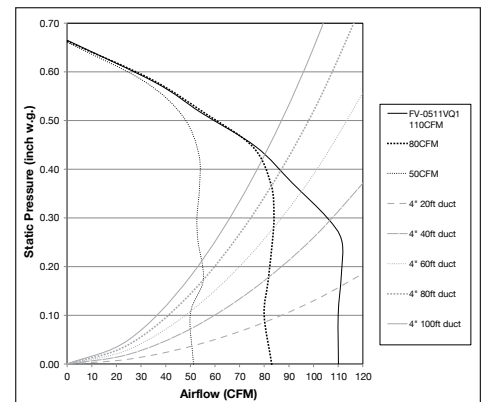


run continuously. ECM motor speed shall automatically increase when the fan senses static pressure to maintain selected CFM. Power rating shall be 120V/60Hz. Duct diameter shall be no less than 4", inclusive of an integrated dual 4" or 6" duct adapter. Fan can be used to comply with ASHRAE 62.2, LEED, ENERGY STAR® IAP, EarthCraft, CA Title 24 and WA state code.

Specifications: WhisperCeiling DC FV-0511VQ1		4"		4"		4"	
Ventilation Fan Characteristics (HVI Certified Data)	Static Pressure in inches w.g.	0.1	0.25	0.1	0.25	0.1	0.25
	Air Volume (CFM)	110	111	80	83	50	53
	Noise (sones)	<0.3	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
	Energy Efficiency (CFM/Watt)	10.6	6.9	13.6	7.7	12.5	7.4
	Speed (RPM)	957	1239	821	1172	756	1093
	Current (amps)	0.18	0.26	0.11	0.18	0.07	0.13
	MAX. Current (amps)	0.27					
	Power Rating (V/Hz)	120/60					
	ENERGY STAR rated	Yes					

0.25=Installed Performance

Performance Curve 4" Duct



For complete Installation Instructions visit us.panasonic.com/ventfans

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

Panasonic Eco Solutions North America
Eco Products Division
Two Riverfront Plaza
Newark, NJ 07102

us.panasonic.com/ventfans



ECM 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.

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



Precision Spot Ventilation Fans and Fan/Lights



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	ECM		ECM		ECM		ECM		ECM		ECM		ECM		ECM		ECM		ECM		ECM		ECM	
	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