

# **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 brushless ECM 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.).
- PCB board equipped with thermal-cutoff fuse.
- Removable with permanently lubricated plugin motor.

#### **Housing:**

- 26 gauge galvanized steel body.
- Built-in 4" Oval duct collar. Also compatible with 4" round 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.

#### **Ceiling Radiation Damper:**

 WhisperValue 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 or wall mount and tub/shower enclosure when GFCI protected. Fan shall also be ENERGY STAR® certified, with a built-in speed selector. Choose from 50-80-100 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., and 52/75/83 at 0.375 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., and at 0.375 w.g. 12.0/16.0/18.0 watts, 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., and 4.3/4.7/4.6 CFM/watt at 0.375" 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

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	4" Oval duct
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FV-0510VS1	

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 can be used to comply with ASHRAE 62.2, LEED, EarthCraft, California Title-24 and WA Ventilation Code.

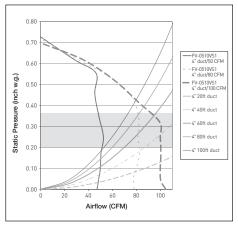
# WhisperValue Contractor Pack\*

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

Housing Can	Motor/Grille	Complete	Master
	Assembly	Fan Unit	Pack
FV-0510VSA1	FV-0510VSB1	FV-0510VS1	4

\*Must order in quantities of 4. Shipment will contain 1 box with 4 units.

# Performance Curve 4" Oval duct



Specifications: WhisperValueDC FV-0510VS1		4	4" Ova	ıl	4	1" Ova	I	4	4" Ova	ıl	
	Static Pressure in inches w.g.	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	
	Air Volume (CFM)	100	100	83	80	81	75	50	53	52	
	Noise (sones)	0.9	1.3	-	0.4	0.8	-	<0.3	0.5	-	
Ventilation Fan	Power Consumption (watts)	11.1	16.0	18.0	7.2	11.5	16.0	4.4	7.5	12.0	
Characteristics	naracteristics Energy Efficiency (CFM/Watt)	9.2	6.4	4.6	11.4	7.2	4.7	12.8	7.9	4.3	
(HVI Certified	Speed (RPM)	902	1121	1300	797	1070	1270	708	1025	1230	
Data)	Current (amps)	0.20	0.27	0.25	0.13	0.20	0.24	0.09	0.14	0.17	
	MAX. Current (amps)					0.39					
	Power Rating (V/Hz)	120/60									
	ENERGY STAR rated					Yes					

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

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

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

Panasonic Life Solutions Company of America IAQ 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.



# Specification Submittal Data / Panasonic Ventilation Fan

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# Motor/Blower:

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- Fan shall be UL and cUL listed for tub/shower enclosure when GFCI protected and used in insulated ceiling (TYPE I.C.).
- PCB board equipped with thermal-cutoff fuse.
- Removable with permanently lubricated plugin motor

# **Housing:**

- 26 gauge galvanized steel body.
- Built-in 4" Oval duct collar. Also compatible with 4" round 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.

# **Ceiling Radiation Damper:**

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

#### **Grille:**

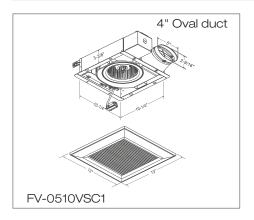
- Attractive design using Poly Pro material.
- Attaches directly to housing with torsion springs.

#### **Warranty:**

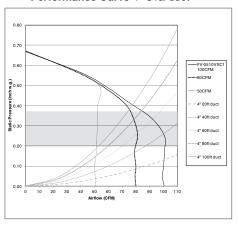
- ECM Motor: 6 Years from original purchase date.
- ALL Parts: 3 Years from original purchase date.

#### **Architectural Specifications:**

Ventilation fan shall be UL and cUL listed for ceiling or wall mount and tub/shower enclosure when GFCI protected. Fan shall also be ENERGY STAR® certified, with a condensation sensor that shall be built-in and able to detect relative humidity and temperature to anticipate dew point. Fan shall also incorporate a built-in speed selector. Choose from 50 / 80 / 100 CFM and no more than < 0.3 / 0.4 / 0.9sone as certified by the Home Ventilating Institute (HVI) at 0.1 static pressure in inches water gauge (w .g.) with no less than 52 / 81 / 101 CFM and no more than 0.5 / 0.8 / 1.3sone as certified by HVI at 0.25 w.g, and 52 / 75 / 83 CFM at 0.375 w.g. Power Consumption shall be no greater than 4.5 / 8.5 / 12.4 watts at 0.1 w.g, 7.7/13.2/18.0 watts at 0.25 w.g, and 12.0 / 16.0 / 18.0 watts at 0.375 w.g. Efficiency should be no less than 12.1 / 10.0 / 8.2 CFM/watt at 0.1 w.g, 7.3 / 6.5 / 5.7 CFM/watt at 0.25 w.g, and 4.3 / 4.7 / 4.6 CFM/watt at 0.375 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". Optional 24-gauge steel, fire code rated 4" oval to 3" round duct adaptor sold separately (Model # FV -VS43R). Fan can be used to comply with ASHRAE 62.2, CALGreen, LEED, EarthCraft, California Title-24 and WA Ventilation Code.



#### Performance Curve 4" Oval duct



Specifications and additional features on following page.

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



# **Specification Submittal Data** / Panasonic Ventilation Fan

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- 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.

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#### **Grille:**

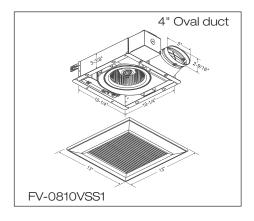
- Attractive design using Poly Pro material.
- Attaches directly to housing with torsion springs.

#### Warranty:

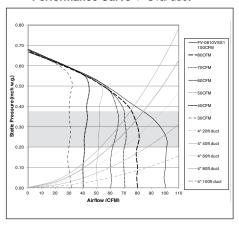
- ECM Motor: 6 Years from original purchase date.
- ALL Parts: 3 Years from original purchase date.

#### **Architectural Specifications:**

Ventilation fan shall be UL and cUL listed for ceiling or wall mount and tub/shower enclosure when GFCI protected. Fan shall also be ENERGY STAR® certified with multispeed control (0, 30-70 CFM, in 10 CFM increments) that shall be built-in and activated by a wall switch. Fan shall also incorporate a built-in speed selector. Choose from 80 or 100 CFM and no more than 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 81/101 CFM and no more than 0.8/1.3 sone as certified by HVI at 0.25 w.g., and no less than 75/83 CFM at 0.375 w.g. Power Consumption shall be no greater than 8.5/12.4 watts at 0.1 w.g. and 13.2/18.0 watts at 0.25 w.g., and 16.0/18.0 watts at 0.375 w.g. with efficiency of no less than 10.0/8.2 CFM/watt at 0.1 w.g. and 6.5/5.7 CFM/watt at 0.25 w.g., and 4.7/4.6 CFM/watt at 0.375 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". Optional 24 gauge steel, fire code rated 4" oval to 3" round duct adaptor sold separately (Model FV-VS43R). Fan can be used to comply with ASHRAE 62.2, LEED, EarthCraft, California Title-24 and WA Ventilation Code.



#### Performance Curve 4" Oval duct



Specifications and Additional Features on following page.

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



# Specification Submittal Data / Panasonic Ventilation Fan/Light

# **Description:**

Ventilating fan/light 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.

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- Removable with permanently lubricated plugin motor.

#### **Housing:**

- 26 gauge galvanized steel body.
- Built-in 4" Oval duct collar. Also compatible with 4" round 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.



(1) 10 Watt Dimmable LED chip panel/3000 Kelvin Warm White/90CRI/700 lumens/70 LPW/ ENERGY STAR 2.0 certified/50,000 hours rated average life /<1W LED night light.

## **Ceiling Radiation Damper:**

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

#### Grille

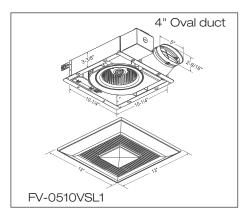
- Attractive design using Poly Pro material.
- Attaches directly to housing with torsion springs.

#### **Warranty:**

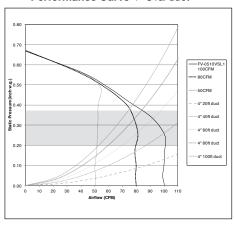
- ECM Motor: 6 Years from original purchase date.
- LED: 5 Years from original purchase date.
- ALL Parts: 3 Years from original purchase date.

## **Architectural Specifications:**

Ventilation fan/light shall be UL and cUL listed for ceiling or wall mount and tub/shower enclosure when GFCI protected. Fan/light shall also be 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 52 / 81 / 101 CFM and no more than 0.5 / 0.8 /1.3 sone as certified by HVI at 0.25 w.g, and 52 / 75 / 83 CFM at 0.375 w.g. Power Consumption shall be no greater than 4.5 / 8.5 / 12.4 watts at 0.1 w.g, 7.7 / 13.2 / 18.0 watts at 0.25 w.g, and 12.0 / 16.0 / 18.0 watts at 0.375 w.g. Efficiency should be no less than 12.1 / 10.0 /8.2 CFM/watt at 0.1 w.g, 7.3 / 6.5 / 5.7 CFM/watt at 0.25 w.g, and 4.3 / 4.7 / 4.6 CFM/watt at 0.375 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. Lamp shall be of the LED dimmable type and be no less than (1) 10W, ENERGY STAR 2.0 certified, LED chip panel that maintains 50,000 hours rated average life and incorporates a <1W LED night light. 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 can be used to comply with ASHRAE 62.2, LEED, EarthCraft, California Title-24 and WA Ventilation Code.



#### Performance Curve 4" Oval duct



Specifications and additional features, including Dimmer Switch Compatibility, on following page.

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



# Specification Submittal Data / Panasonic Ventilation Fan/Light

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#### **Housing:**

- 26 gauge galvanized steel body.
- Built-in 4" Oval duct collar. Also compatible with 4" round duct.
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- 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.
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(1) 10 Watt Dimmable LED chip panel/3000 Kelvin Warm White/90CRI/700 lumens/70 LPW/ ENERGY STAR 2.0 certified/50,000 hours rated average life /<1W LED night light.

## **Ceiling Radiation Damper:**

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#### Grille:

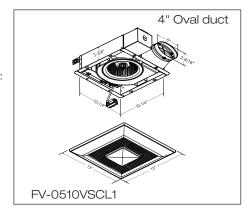
- Attractive design using Poly Pro material.
- Attaches directly to housing with torsion springs.

#### **Warranty:**

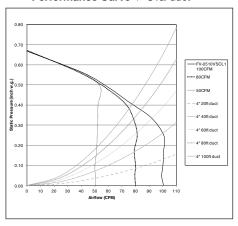
- ECM Motor: 6 Years from original purchase date.
- LED: 5 Years from original purchase date.
- ALL Parts: 3 Years from original purchase date.

## **Architectural Specifications:**

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#### Performance Curve 4" Oval duct



Specifications and additional features, including Dimmer Switch Compatibility, on following page.

Optional 24 gauge steel, fire code rated 4" oval to 3" round duct adaptor sold separately (Model # FV-VS43R). Fan can be used to comply with ASHRAE 62.2, CALGreen, LEED, EarthCraft, California Title-24 and WA Ventilation Code.

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





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#### Grille

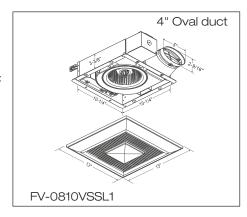
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#### **Warranty:**

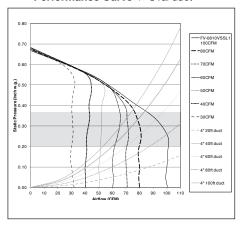
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#### Performance Curve 4" Oval duct



Specifications and additional features, including Dimmer Switch Compatibility, on following page.

than 4". Optional 24 gauge steel, fire code rated 4" oval to 3" round duct adaptor sold separately (Model # FV-VS43R). Fan can be used to comply with ASHRAE 62.2, LEED, EarthCraft, California Title-24 and WA Ventilation Code.

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





# **Specification Submittal Data** / Panasonic Ventilation Fan/Light (Continued)



## **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.

# **Multi-Speed for ASHRAE 62.2 Compliance**

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.

Specifications: V	Specifications: WhisperValueDC FV-0810VSSL1		4" Oval			4" Oval		4" Oval		4" Oval		ıl	4" Oval		al	4" Oval			4" Oval		ı	
	Static Pressure in inches w.g.	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375
	Air Volume (CFM)	100	101	83	80	81	75	70	72	70	60	64	65	50	52	52	40	41	42	30	31	30
	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)		18.5	18.0	8.5	13.2	16.0	6.5	10.8	15.0	5.3	9.3	13.0	4.5	7.7	12.0	3.8	6.7	10.0	3.4	6.0	9.0
Ventilation Fan Characteristics	Energy Efficiency (CFM/Watt)	7.5	5.5	4.6	10.0	6.5	4.7	11.2	6.9	4.7	11.8	7.2	5.0	12.1	7.3	4.3	11.8	6.9	4.2	10.2	6.0	3.3
(HVI Certified Data)	Speed (RPM)	970	1197	1300	856	1114	1270	805	1088	1260	770	1076	1250	733	1050	1230	723	1037	1215	711	1033	1200
Data)	Current (amps)	0.22	0.29	0.25	0.13	0.20	0.24	0.10	0.16	0.22	0.09	0.15	0.20	0.08	0.13	0.17	0.07	0.11	0.15	0.06	0.10	0.13
	MAX. Current (amps)					•						0.39									•	
	Power Rating (V/Hz)										-	120/60										
	ENERGY STAR rated											YES										

<sup>\*</sup>Industry research indicates static pressure in typical installations ranges from 0.20" to 0.375"

Dimme	Dimmer Switch Compatibility									
Brand	Model	Load								
	DV-603P									
Lutron	S-600	600W								
	S-600PR-WH									
	6684									
	6683									
Leviton	6631-LA	600W								
	IPI06									
	S-600P									
GE	18024	600W								
Almond	LUXDM600-12	600W								
Ton	HCL453PTC	600W								
Тор	HCL453PW	00000								

Panasonic Life Solutions Company of America IAQ Division

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# **Specification Submittal Data** / Panasonic Ventilation Fan/Light (Continued)



# **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.

# **Condensation Sensor**

Controls 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. Fan will run for 20 minutes before turning off.

Specifications: V	/hisperValueDC FV-0510VSCL1	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	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	
Ventilation Fan Characteristics	Energy Efficiency (CFM/Watt)	8.2	5.7	10.0	6.5	12.1	7.3	
(HVI Certified Data)	Speed (RPM)	954	1176	856	1114	733	1050	
Dataj	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				
	ENERGY STAR rated			YE	ES			

0.25=Installed Performance

Dimmer Switch Compatibility										
Brand	Model	Load								
	DV-603P									
Lutron	S-600	600W								
	S-600PR-WH									
	6684									
	6683 Leviton 6631-LA									
Leviton										
	IPI06									
	S-600P									
GE	18024	600W								
Almond	LUXDM600-12	600W								
Ton	HCL453PTC	600W								
Тор	HCL453PW	00000								

Panasonic Eco Solutions North America Eco Products Division

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# Specification Submittal Data / Panasonic Ventilation Fan/Light (Continued)



# **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.

Specifications: WhisperValueDC FV-0510VSL1			4" <b>O</b> va	ıl	4	1" Ova	ı	4" Oval					
	Static Pressure in inches w.g.	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375			
	Air Volume (CFM)	100	101	83	80	81	75	50	52	52			
	Noise (sones)			-	0.4	0.8	-	<0.3	0.5	-			
Ventilation Fan	Power Consumption (watts)	13.4	18.0	18.0	8.5	13.2	16.0	4.5	7.7	12.0			
Characteristics	Energy Efficiency (CFM/Watt)	8.2	5.7	4.6	10.0	6.5	4.7	12.1	7.3	4.3			
(HVI Certified	Speed (RPM)	954	1176	1300	856	1114	1270	733	1050	1230			
Data)	Current (amps)	0.18	0.25	0.25	0.13	0.20	0.24	0.08	0.13	0.17			
	MAX. Current (amps)	0.39											
	Power Rating (V/Hz)	120/60											
	ENERGY STAR rated					Yes							

<sup>\*</sup>Industry research indicates static pressure in typical installations ranges from 0.20" to 0.375"

Dimmer Switch Compatibility										
Brand	Model	Load								
	DV-603P									
Lutron	S-600	600W								
	S-600PR-WH									
	6684									
	6683									
Leviton	6631-LA	600W								
	IPI06									
	S-600P									
GE	18024	600W								
Almond	LUXDM600-12	600W								
Ton	HCL453PTC	600W								
Тор	HCL453PW	00000								

Specifications:	WhisperValueDC FV-0510VSL1	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	101	80	81	50	52		
	Noise (sones)	0.9	1.3	0.4	0.8	<0.3	0.5		
	Power Consumption (watts)	12.4	18.5	8.5	13.2	4.5	7.7		
Ventilation Fan Characteristics	Energy Efficiency (CFM/Watt)	7.5	5.5	10.0	6.5	12.1	7.3		
(HVI Certified Data)	Speed (RPM)	970	1197	856	1114	733	1050		
Dataj	Current (amps)	0.22	0.29	0.13	0.20	0.08	0.13		
	MAX. Current (amps)	0.39							
	Power Rating (V/Hz)	120/60							
	ENERGY STAR rated			YE	ES .				

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# **Specification Submittal Data** / Panasonic Ventilation Fan (Continued)



# **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.

# **Multi-Speed for ASHRAE 62.2 Compliance**

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.

Specifications: WhisperValueDC FV-0810VSS1		4" Oval			4" Oval		4" Oval		4" Oval		4" Oval		al	4" Oval			4" Oval		ī			
	Static Pressure in inches w.g.	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375
	Air Volume (CFM)	100	101	83	80	81	75	70	72	70	60	64	65	50	52	52	40	41	42	30	31	30
	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	-
<u>-</u>	Power Consumption (watts)	13.4	18.5	18.0	8.5	13.2	16.0	6.5	10.8	15.0	5.3	9.3	13.0	4.5	7.7	12.0	3.8	6.7	10.0	3.4	6.0	9.0
Ventilation Fan Characteristics	Energy Efficiency (CFM/Watt)	7.5	5.5	4.6	10.0	6.5	4.7	11.2	6.9	4.7	11.8	7.2	5.0	12.1	7.3	4.3	11.8	6.9	4.2	10.2	6.0	3.3
(HVI Certified Data)	Speed (RPM)	970	1197	1300	856	1114	1270	805	1088	1260	770	1076	1250	733	1050	1230	723	1037	1215	711	1033	1200
Dataj	Current (amps)	0.22	0.29	0.25	0.13	0.20	0.24	0.10	0.16	0.22	0.09	0.15	0.20	0.08	0.13	0.17	0.07	0.11	0.15	0.06	0.10	0.13
	MAX. Current (amps)	0.39																				
	Power Rating (V/Hz)										1	120/60										
	ENERGY STAR rated											YES										

<sup>\*</sup>Industry research indicates static pressure in typical installations ranges from 0.20" to 0.375"

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# **Specification Submittal Data** / Panasonic Ventilation Fan (Continued)



# **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.

# **Condensation Sensor**

Controls 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. Fan will run for 20 minutes before turning off.

Specifications: WhisperValueDC FV-0510VSC1			4" <b>Ov</b> a	ı	4	₽" Ova	I	4" Oval				
	Static Pressure in inches w.g.	0.1	0.25	0.375	0.1	0.25	0.375	0.1	0.25	0.375		
	Air Volume (CFM)	100	101	83	80	81	75	50	52	52		
	Noise (sones)		1.3	-	0.4	0.8	-	<0.3	0.5	-		
Ventilation Fan	Power Consumption (watts)	13.4	18.5	18.0	8.5	13.2	16.0	4.5	7.7	12.0		
Characteristics	Energy Efficiency (CFM/Watt)	7.5	5.5	4.6	10.0	6.5	4.7	12.1	7.3	4.3		
(HVI Certified	Speed (RPM)	970	1197	1300	856	1114	1270	733	1050	1230		
Data)	Current (amps)	0.22	0.29	0.25	0.13	0.20	0.24	0.08	0.13	0.17		
	MAX. Current (amps)	0.39										
	Power Rating (V/Hz) 120/60											
	ENERGY STAR rated					Yes						

<sup>\*</sup>Industry research indicates static pressure in typical installations ranges from 0.20" to 0.375"

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