

**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<sup>®</sup> 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 plug-in 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:**

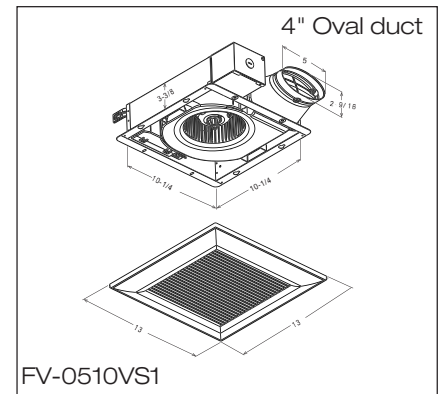
- Attractive design using Poly Pro material.
- Attaches directly to housing with torsion springs.

**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<sup>®</sup> 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



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.

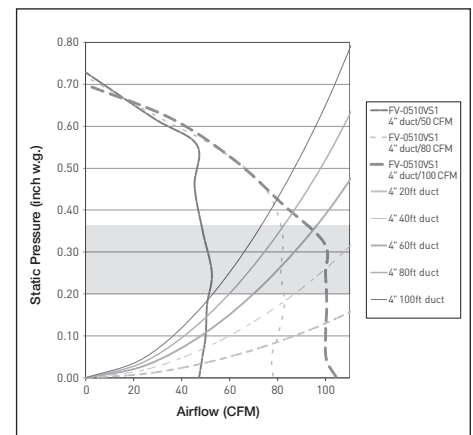
**WhisperValue Contractor Pack\***

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

| Housing Can | Motor/Grille Assembly | Complete Fan Unit | Master 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: <b>WhisperValueDC</b> FV-0510VS1                   |                                | 4" Oval |      |       | 4" Oval |      |       | 4" Oval |      |       |
|--------------------------------------------------------------------|--------------------------------|---------|------|-------|---------|------|-------|---------|------|-------|
| <b>Ventilation Fan Characteristics</b><br><br>(HVI Certified Data) | 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  | -     |
|                                                                    | Power Consumption (watts)      | 11.1    | 16.0 | 18.0  | 7.2     | 11.5 | 16.0  | 4.4     | 7.5  | 12.0  |
|                                                                    | Energy Efficiency (CFM/Watt)   | 9.2     | 6.4  | 4.6   | 11.4    | 7.2  | 4.7   | 12.8    | 7.9  | 4.3   |
|                                                                    | Speed (RPM)                    | 902     | 1121 | 1300  | 797     | 1070 | 1270  | 708     | 1025 | 1230  |
|                                                                    | 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](http://us.panasonic.com/ventfans)

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

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IAQ19162ST



**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**