# ARCHITECTURAL SPECIFICATIONS
## PANASONIC ADVANCED VENTILATION SOLUTIONS

**FV-0510VS1 WhisperValue DC™ – 50-80-100 CFM Fan, Ceiling or Wall Mount, Single Speed**
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 Ventilation Code.

**WhisperValue® DC™**
VENTILATION FAN

**FV-0510VSC1 WhisperValue® DC™ – 50-80-100 CFM Fan, Ceiling or Wall Mount, Single Speed, Condensation Sensor**

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 <0.3/0.4/0.9 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. Power Consumption shall be no greater than 4.5/8.5/12.4 watts at 0.1 w.g. and 7.7/13.2/18.0 watts at 0.25 w.g., with efficiency of no less than 12.1/10.0/8.2 CFM/watt at 0.1 w.g. and 7.3/6.5/5.7 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". 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.

**WhisperValue® DC™**
VENTILATION FAN

**FV-0810VSS1 WhisperValue® DC™ – 80-100 CFM Fan, Ceiling or Wall Mount, Multi Speed**
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. 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., 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. 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.

**FV-0510VSL1 WhisperValue® DC™ – 50-80-100 CFM Fan/LED Light, Ceiling or Wall Mount, Single Speed**

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 <0.3/0.4/0.9 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. Power Consumption shall be no greater than 4.5/8.5/12.4 watts at 0.1 w.g. and 7.7/13.2/18.0 watts at 0.25 w.g., with efficiency of no less than 12.1/10.0/8.2 CFM/watt at 0.1 w.g. and 7.3/6.5/5.7 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". 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.

**WhisperValue® DC**
VENTILATION FAN

**FV-0510VSCL1 WhisperValue® DC™ – 50-80-100 CFM Fan/LED Light, Ceiling or Wall Mount, Single Speed, Condensation Sensor**

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 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 <0.3/0.4/0.9 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. Power Consumption shall be no greater than 4.5/8.5/12.4 watts at 0.1 w.g. and 7.7/13.2/18.0 watts at 0.25 w.g., with efficiency of no less than 12.1/10.0/8.2 CFM/watt at 0.1 w.g. and 7.3/6.5/5.7 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. 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, CALGreen, LEED, EarthCraft, California Title-24 and WA Ventilation Code.

# WhisperValue® DC™
VENTILATION FAN

### FV-0810VSSL1 WhisperValue® DC™ – 80-100 CFM Fan/LED Light, Ceiling or Wall Mount, Multi Speed

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 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. 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., 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. 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.