

**Specification Submittal Data:** BalancedHome™ 160 Elite Plus+ (FV-16VEC1S)

**Description:**

The BalancedHome™ Elite Plus+ Energy Recovery Ventilator (ERV) provides tempered supply air to the home while exhausting stale indoor air. Independent supply and exhaust settings ranging from 30 to 160 CFM; provide balanced ventilation while recovering energy from the exchanged air, with an occupant-controlled boost up to 160 CFM. This Energy Recovery Ventilator is engineered for use in any North American climate zone.

**Motor/Blower:**

- Two (2) DC-enclosed ECM brushless motors rated for continuous run.
- Power rating 120V/60hz, 3.1 amps
- Supply and Exhaust CFM rates adjustable from 30 – 160 CFM
- Motor equipped with a thermal cut-off fuse.
- Built-in ASHRAE 62.2 timing function for code compliance

**Housing:**

- Galvanized, corrosion-resistant steel body
- Four 6" horizontal oriented ducts for supply, exhaust, room air, and room return air
- Ceiling chain mounts and wall mounts with predrilled mounting brackets included

**Maintenance:**

- MERV 13 filter (FV-FL1316VE1) included
- Replacement MERV 8 (FV-FL0815VE1) and washable MERV 6 (FV-FL0616VE1) available
- Visual and Audible filter replacement indicators activate after 90 days of accumulated run time
- California Energy Commission (CEC) certified Fault Indication Device (FID) alerts occupants to check for maintenance and installation issues

**Warranty:**

- ECM Motors: 6 years from the original purchase date
- All other parts: 3 years from the original purchase date

**Architectural Spec:**

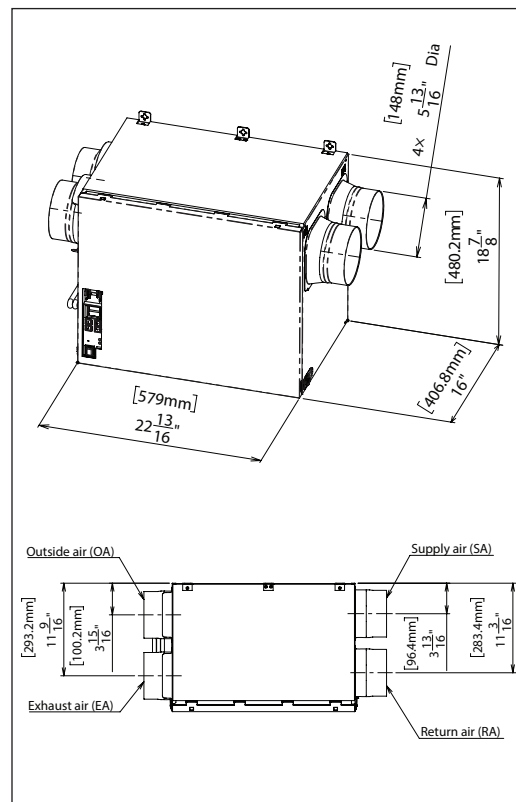
ERV shall be ceiling or wall mount type with LED display speed selectors for supply and exhaust air. CFM shall be selectable from 30-160 CFM. ERV shall have 160 Net CFM on the exhaust ports and 160 Net CFM on the supply ports as tested under CSA-C439 standards at 0.4 static pressure in inches water gauge. ERV shall have Occupant Controlled Boost Capability to 160 CFM.

ERV shall have a fault indicator device\* to notify occupants of system issues. Power consumption shall be no greater than 109 watts at 0.2" w.g. static pressure at 129 CFM. Sensible Recovery Efficiency for heating shall be no less than 82% at 36 CFM net airflow at 32°F, [0°C]. Adjusted Sensible Recovery Efficiency for heating shall be no less than 84% at 36 CFM net airflow at 32°F [0°C]. Total Recovery Efficiency for cooling shall be no less than 73% at 36 CFM net airflow at 95°F [35°C]. When temperatures are within freezing, the unit will have the option to either recirculate or exhaust the air based on preset settings. The (2) motors shall be enclosed ECM brushless motors rated for continuous run. ECM motor speed shall automatically increase when the fan senses static pressure to maintain the selected CFM. ERV shall incorporate an ASHRAE 62.2 intermittent and continuous timing function for code compliance. The power rating shall be 120v/60Hz, 3.1 amps. Duct diameters shall be no less than 6". ERV must include horizontal supply and return air adapters. ERV can be used to comply with ASHRAE 62.2, Ontario Building Code, and ENERGY STAR® requirements; LEED, Indoor airPLUS, California Title-24, and 2021 Washington State Residential Energy Code.

**ERV Core Technology:**

- Indoor and outdoor air passes through Panasonic's hygroscopic membrane core. This process tempers supply air while transferring moisture and energy.
- Core material treated for mold resistance
- Built-in Frost Prevention Mode helps prevent the core from freezing.

\* Wall Control/Fault Indicator Display (FID)  
FV-SC16VEC1 (sold separately).



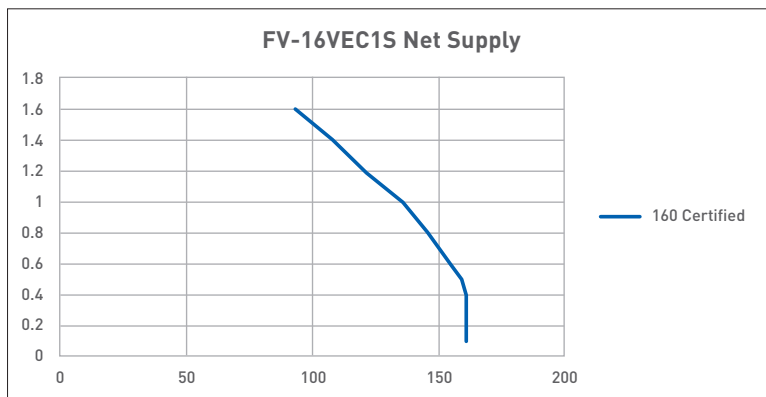
FV-16VEC1S

For complete Installation Instructions visit [iaq.na.panasonic.com](http://iaq.na.panasonic.com)

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

**Specification Submittal Data:** BalancedHome™ 160 Elite Plus+ (FV-16VEC1S)  
(Continued)

| FV-16VEC1S         |                     |     |              |     |                |                              |                                       |                                     |                                                   |                           |                                    |       |
|--------------------|---------------------|-----|--------------|-----|----------------|------------------------------|---------------------------------------|-------------------------------------|---------------------------------------------------|---------------------------|------------------------------------|-------|
| Energy Performance |                     |     |              |     |                |                              |                                       |                                     |                                                   |                           |                                    |       |
| Mode               | Outdoor Temperature |     | Net Air Flow |     | Power consumed | Sensible Recovery Efficiency | Adjusted Sensible Recovery Efficiency | Latent Recovery / Moisture Transfer | Apparent Sensible Effectiveness NOT HVI Certified | Total Recovery Efficiency | Adjusted Total Recovery Efficiency | CFM/W |
|                    | °C                  | °F  | L/S          | CFM | (Watt)         |                              |                                       |                                     |                                                   |                           |                                    |       |
| Heating            | 0                   | 32  | 17           | 36  | 25             | 82                           | 84                                    | 0.81                                | 89                                                | ---                       | ---                                | 1.4   |
|                    | 0                   | 32  | 31           | 66  | 44             | 79                           | 81                                    | 0.74                                | 84                                                | ---                       | ---                                | 1.5   |
|                    | 0                   | 32  | 61           | 129 | 109            | 73                           | 75                                    | 0.64                                | 78                                                | ---                       | ---                                | 1.1   |
| -25°C              | -25                 | -13 | 24           | 51  | 118            | 65                           | 70                                    | 0.63                                | 91                                                | ---                       | ---                                | 0.4   |
|                    | -25                 | -13 | 31           | 66  | 163            | 60                           | 65                                    | 0.60                                | 87                                                | ---                       | ---                                | 0.4   |
| Cooling            | 35                  | 95  | 17           | 36  | 26             | ---                          | ---                                   | 0.80                                | 81                                                | 73                        | 75                                 | 1.3   |
|                    | 35                  | 95  | 31           | 66  | 48             | ---                          | ---                                   | 0.70                                | 76                                                | 68                        | 70                                 | 1.3   |
|                    | 35                  | 95  | 57           | 121 | 110            | ---                          | ---                                   | 0.60                                | 66                                                | 61                        | 63                                 | 1.1   |



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\*This product meets strict energy efficiency guidelines set by Natural Resources Canada and is ENERGY STAR® certified for the Canadian market only.  
There are no current Energy Star ratings for Energy Recovery Ventilators in the US market.

**Panasonic**