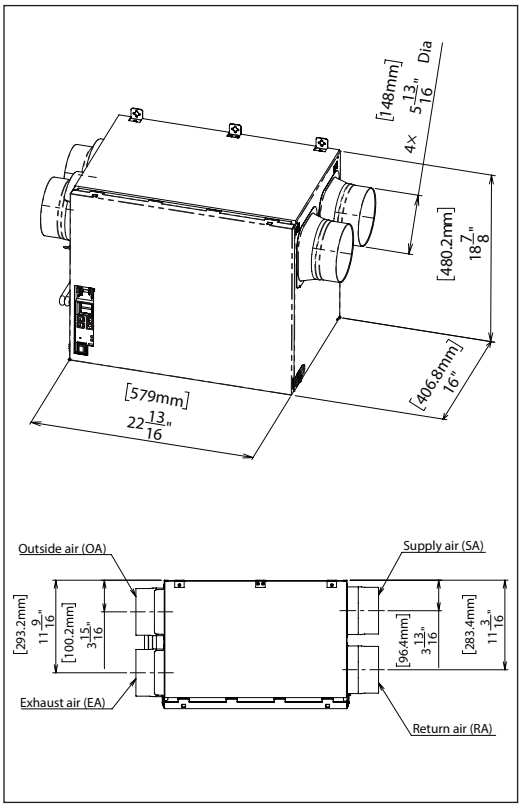
BalancedHome™ 120 ELITE

**FV-12VE1S**

## **Specification Submittal Data:** BalancedHome™ 120 Elite (FV-12VE1S)




FV-12VE1S

**Description:**

The BalancedHome™ Elite 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 120 CFM; provide balanced ventilation while recovering energy from the exchanged air, with an occupant-controlled boost up to 120 CFM. This Energy Recovery Ventilator is engineered for use in any temperate North American climate zone.

**Motor/Blower:**

- Two (2) DC-enclosed ECM brushless motors rated for continuous run.
- Power rating 120V/60hz, 2.4 amps
- Supply and Exhaust CFM rates adjustable from 30 – 120 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 8 filter (FV-FL0815VE1) included
- Replacement MERV 13 (FV-FL1316VE1) and washable MERV 6 (FV-FL0616VE1) available
- Visual and Audible filter replacement indicators activate after 90 days of accumulated run time
- California Energy Commision (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 30-120 CFM. ERV shall have 120 Net CFM on the exhaust ports and 120 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 120 CFM.

ERV shall have a fault indicator device to notify occupants of system issues. Power consumption shall be no greater than 73 watts at 0.2" w.g. static pressure at 121 CFM. Sensible Recovery Efficiency for heating shall be no less than 76% at 36 CFM net airflow at 32°F, (0°C). Adjusted Sensible Recovery Effeciency for heating shall be no less than 78% at 36 CFM net airflow at 32°F (0°C). Total Recovery Efficiency for cooling shall be no less than 68% at 36 CFM net airflow at 95°F (35°C). 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, 2.4 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, and Ontario Building Code requirements; LEED, Indoor airPLUS, California Title-24, and 2021 Washington State Residential Energy Code.

**ERV Core Technology:**

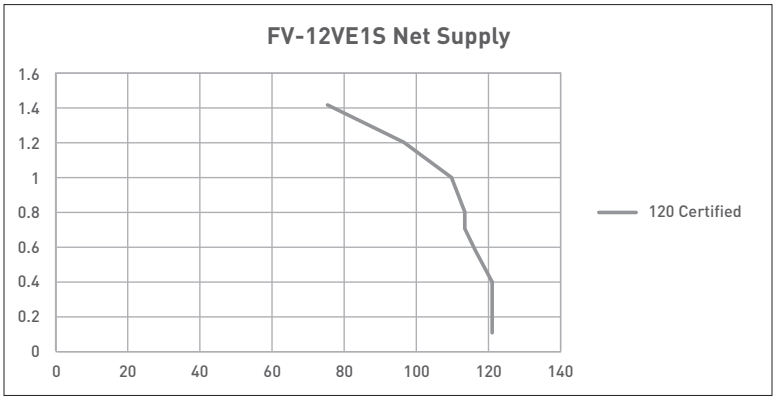
- Indoor and outdoor air passes through Panasonic's hygroscopic membrane core. This process tempers supply air while transferring moisture and energy.
- Core material treated for mold resistance

For complete Installation Instructions visit **iaq.na.panasonic.com**

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

**Specification Submittal Data:** BalancedHome™ 120 Elite (FV-12VE1S)
(Continued)

| FV-12VE1S | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 22 | 76 | 78 | 0.66 | 85 | --- | --- | 1.63 |
| | 0 | 32 | 31 | 66 | 35 | 72 | 74 | 0.57 | 78 | --- | --- | 1.88 |
| | 0 | 32 | 57 | 121 | 73 | 65 | 67 | 0.49 | 70 | --- | --- | 1.65 |
| Cooling | 35 | 95 | 17 | 36 | 24 | --- | --- | 0.77 | 76 | 68 | 70 | 1.50 |
| | 35 | 95 | 31 | 66 | 39 | --- | --- | 0.65 | 69 | 61 | 63 | 1.69 |
| | 35 | 95 | 52 | 110 | 77 | --- | --- | 0.56 | 59 | 53 | 55 | 1.42 |

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