# Intelli-Balance

# FV-10VE1 Temperate Climate ERV

### Specification Submittal Data / Panasonic ERV

#### Description

#### **Architectural Specifications:**

ERV shall be ceiling or wall mount type with

built-in speed selectors for both Supply and Exhaust air. Select from 50/60/70/80/100

exhaust ports and 99 Net CFM on the supply

ports as tested in accordance with HVI 915

and 916 standards at 0.1 static pressure in

inches water gauge. ERV shall have 95 Net

Power consumption shall be no greater than 62 watts at 0.1" w.g. and 80 watts at

CFM on the exhaust ports and Net 101 CFM

0.4" w.g. static pressure. Apparent Sensible

Effectiveness for heating shall be no less than

90% at 54 CFM net air flow under 32°F (0°C)

as tested in accordance with CSA-C439. Total

Recovery Effectiveness for cooling shall be no

close when outdoor temperatures are < 14°F

(-10°C) to prevent freezing of the core. The (2)

motors shall be totally enclosed DC brushless

motors rated for continuous run. DC motor

speed shall automatically increase when the

Timing function for code compliance. Power

with ASHRAE 62.2, LEED, IAP, California

• Indoor and outdoor air passes through

Panasonic's capillary core technology. This

• Built in Frost Prevention Mode prevents the core from freezing. Frost Prevention Mode

is free of interaction and operates without

process tempers supply air while transferring

Title-24, and WA Ventilation Code

**ERV Core Technology:** 

moisture and energy.

intervention.

fan senses static pressure to maintain selected CFM. ERV shall incorporate an ASHRAE 62.2

rating shall be 120v/60Hz. Duct diameters shall

be no less than 4". ERV can be used to comply

less than 73% at 52 CFM net air flow under 95°F (35°C). The supply port damper shall

on the supply ports at 0.4" w.g. static pressure.

CFM. ERV shall have 95 Net CFM on the

Ceiling or wall mount Cold Climate Energy Recovery Ventilator (ERV) provides a tempered air supply, humidity control, and a balanced amount of exhaust to help maintain balanced, positive or negative pressure throughout the home. Panasonic ERV is engineered for use in any North America climate zone. Only one unit is needed for a  $\leq$  3,000 sq. ft., up to 7 bedroom home to meet the ASHRAE 62.2 ventilation requirement. Built-in ASHRAE 62.2 Timing function helps ensure code compliance.

#### **Motor/Blower:**

- Two (2) enclosed DC brushless motors rated for continuous run.
- ERV Supply and Exhaust ventilation rates shall be manually adjustable for 50-60-70-80-90-100 CFM.
- Power rating shall be 120 volts and 60 Hz.
- Motor equipped with thermal cut-off fuse control.
- Removable, permanently lubricated, plug-in motor.

#### Housing:

- 22 gauge galvanized steel body.
- Four 4" or 6" intake and exhaust ducts.
- Built in damper on Outdoor Air (OA) closes during defrost function when the outdoor temperature is too cold.
- Filters on supply and exhaust air extend the life of the ERV core.
- (4) Pressure ports allow for easy airflow verification.
- Pre-drilled mounting bracket can accommodate 16", 19", or 24" on center.

#### Maintenance:

- MERV 8 filter included; MERV 8 (FV-FL0810VE1) and optional MERV 13 (FV-FL1310VE1) replacements available.
- Unobtrusive alarm notifies owner for filter check and maintenance.

#### Warranty:

- DC Motors: 6 years from original purchase
- date
- All Parts: 3 Years from original purchase date.

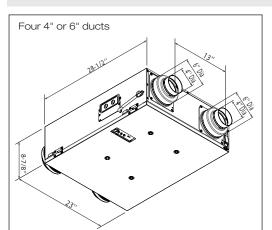
For complete Installation Instructions visit us.panasonic.com/ventfans

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

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FV-10VE1

Optional Exterior Wall Cap (see next page)



#### **DC Motor Technology**

When the ERV senses static pressure, its speed is automatically increased to ensure that the desired CFM is not compromised, which allows the ERV to perform as rated.

# Panasonic



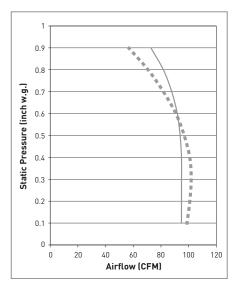
# Specification Submittal Data / Panasonic ERV

(Continued)

Specifications: Intelli-Balance 100 FV-10VE1						
Static Pressure in inches w. g.	0.1	0.4				
Net Exhaust Air Volume (CFM)	95	95				
Net Supply Air Volume (CFM)	99.0	101				
Power Consumption (watts)	62.0	80.0				
Power Rating (V/Hz)	120/60					

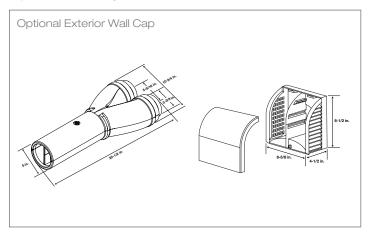
Energy Performance: Intelli-Balance 100 FV-10VE1									
Supply Temperature		Net Air Flow		Consumed	Sensible	Apparent	Net		
					Recovery	Sensible	Moisture		
°C	°F	L/S	CFM	(Watts)	Efficiency	Effectiveness	Transfer		
Heating									
0	32	25	54	20	79	90	0.76		
0	32	32	67	28	79	88	0.76		
0	32	41	87	46	75	85	0.72		
-25	-13	-	-	-	-	-	-		
-25	-13	-	-	-	-	-	-		
Cooling					Total Recovery Efficiency				
35	95	25	52	22	73				

#### Performance Curve 4" or 6" duct



Net Supply Air
Net Exhaust Air

## **Optional Accessory**



#### **Exterior Wall Cap**

FV-WC04VE1 polypropylene wall cap with styrofoam adaptor allows both exhaust (from the right) and supply (from the left) airflow through a 5.5"-5.75" hole in the building envelope. The dividers inside the bottom portion of the Y shape chamber and the new wall cap help prevent cross contamination.

NOTE: FV-WC04VE1 is NOT recommended for use at CFM settings higher than 50 CFM.

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