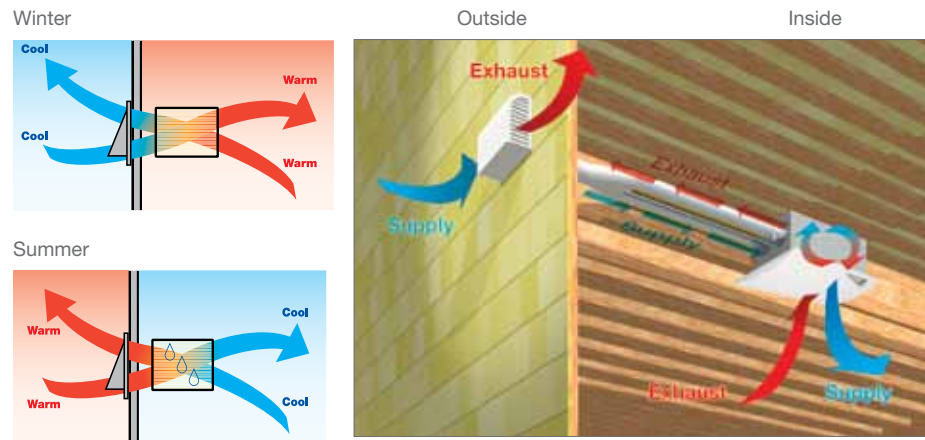


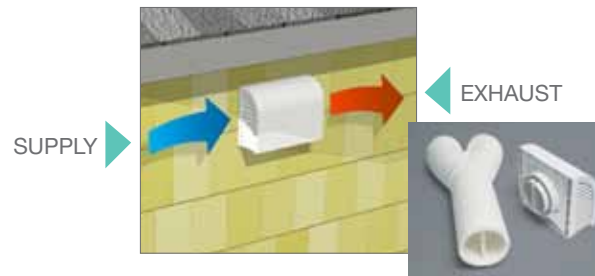
### Balanced Ventilation With Spot ERV



#### Optional Accessory - Exterior Wall Cap

WhisperComfort's FV-WC04VE1 polypropylene wall cap accessory with styrofoam adaptor conveniently 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 Y chamber and wall cap prevent cross contamination.

Optional Exterior Wall Cap Model # FV-WC04VE1



Specifications		FV-04VE1		
		40 CFM	20 CFM	10 CFM
Characteristics	Static pressure in inches w. g.	0.1	0.1	0.1
	Air Volume Exhaust (CFM)	40	20	10
	Air Volume Supply (CFM)	30	20	10
	Noise (sones)	0.8	<0.3	N/A
	Power Consumption (Watts)	23	21	17
	Speed	1479	1292	1095
	Current	0.15	0.10	0.09
Specifications	Power Rating (V/Hz)	120/60		
	Motor Type	Condenser		
	Type of Motor Bearing	Ball		
	Thermal Fuse Protection	Yes		
Apparent Sensible Effectiveness	Blower Wheel Type	2 x Sirocco		
	Heating (%) 32 °F (0°C)	66% at 30 CFM		
Total Recovery Efficiency	Cooling (%) 95 °F (35°C)	36% at 29 CFM		

Note: CFM and sones are tested and certified in accordance with HVI testing standards. Energy efficiency is tested in accordance with CSA-C439 standard.

N/A=not applicable w.g.=water gauge S.P.=static pressure

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Design and specifications subject to change without notice.



## The key to a balanced, healthy home

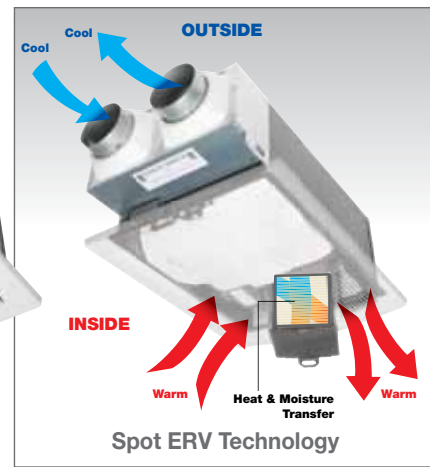
Today's tightly-built, over-ventilated homes occasionally need a breather. A **Panasonic WhisperComfort® Energy Recovery Ventilator (ERV)** maintains indoor air quality while providing a constant flow of fresh outdoor air. Indoor air pressure is balanced and stale air is expelled, helping to rid your home of volatile organic compounds (VOCs). Affordable and compact, **WhisperComfort** can be installed in the ceiling, saving space and providing easy access for maintenance. **WhisperComfort** also complies with green building standards making it a smart, fresh solution for creating a healthier home.



Panasonic

[Panasonic.com/ashrae](http://Panasonic.com/ashrae)





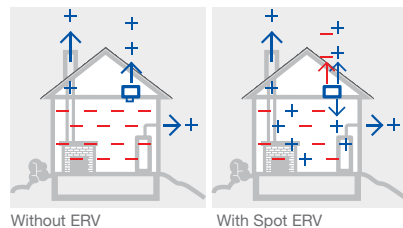
## FEATURES

### Balanced Ventilation

Tightly built homes and buildings utilizing exhaust only fans can create negative pressure. WhisperComfort solves this by supplying air to replace exhausted air, helping to balance air pressure within the home.

Panasonic WhisperComfort Spot ERV uses two 4 inch ducts – one to exhaust stale air and the other to supply fresh air from outdoors. Its low, continuous run ensures volatile organic compounds (VOC's) are vented out and replaced with fresh air.

#### Tight Home Air Pressure



### Exchange Capillary Core

Indoor and outdoor air passes through Panasonic's patented capillary core technology designed to transfer heat energy and moisture. This process tempers supply air while transferring moisture.



Exchange Capillary Core

### Filters

Two filters clean exhaust and supply air (MERV6) before passing through the ERV core, extending the life of the core.



Supply Air Filter

Exhaust Air Filter

### Spot ERV

WhisperComfort is a ceiling insert ideal for a single room. Fresh air is supplied at a low rate while maintaining balanced air pressure. This is an affordable way to add ERV to a specific room or a new addition.

**Ideal for:** Home office / Game rooms / Family rooms

### Whole House ERV

WhisperComfort is also suitable to meet whole house ventilation requirements under ASHRAE 62.2. The sizing charts on the next page provide a guideline for number of bedrooms and square feet. Additionally, two or even three WhisperComfort ERV's may be installed, often at a cost lower than a traditional whole house ERV.

**Ideal for:** Condominiums / Housing Authority properties / Hotels / Studio apartments

### Settings

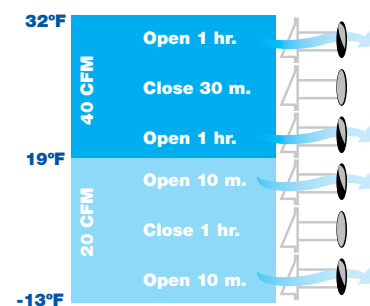
WhisperComfort has two 2-speed CFM settings

	High	Low
Setting 1.	20 CFM	10 CFM
Setting 2.	40 CFM	20 CFM factory preset

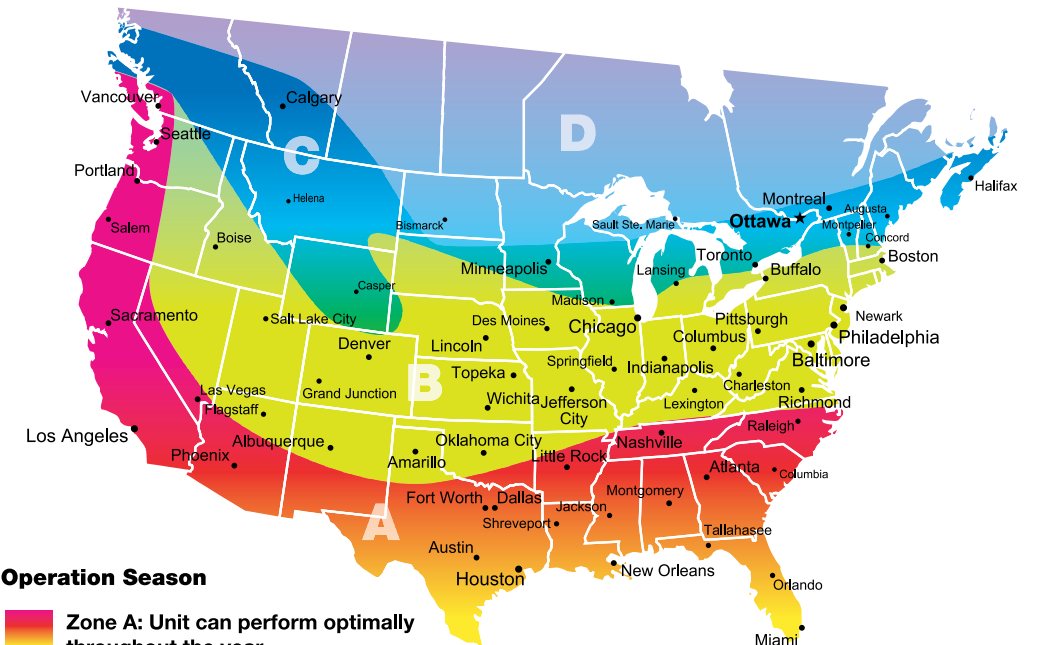
### Frost Prevention Mode

WhisperComfort incorporates built-in frost prevention technology to avoid core freeze up.

- Above 32°F both exhaust and supply are fully functional
- From 32°F to 20°F the mechanical damper on the supply air closes for 30 minutes, then opens 1 hour at the set high/low mode. The cycle repeats itself to avoid core freeze up. (Exhaust only 30 minutes per 90-minute cycle)
- Below 20°F the mechanical damper on the supply air remains closed for 1 hour and opens 10 minutes at low mode. After 10 minutes the cycle will repeat or change if the temperature has risen above 20°F. (Exhaust only 60 minutes per 80-minute cycle)



## Recommended Zones Map



#### Operation Season

- Zone A:** Unit can perform optimally throughout the year.
- Zone B:** Unit can perform optimally March through November.\*
- Zone C:** Unit can perform optimally April through November.\*\*
- Zone D:** Panasonic does not recommend this unit due to extremely cold year-round weather.

Note: This map is based on average temperature readings over 10 years from 60 major cities in North America. Actual performance may vary depending on annual temperature differences and varying altitudes. Visit [www.ashrae.org/technology/page/1330](http://www.ashrae.org/technology/page/1330) for the climate zone map adopted by ASHRAE.

\*Alternates as balanced or exhaust only Dec-Feb when temperature is above or below freezing.  
\*\*Alternates as balanced or exhaust only Dec-March when temperature is above or below freezing.

## SIZING

### Spot Ventilation

	Ventilation Capacity Requirements (CSA-F326)		
10 CFM	Single Bedroom	Living room	Family room
20 CFM	Master Bedroom	Large Basement room	

Need to choose 10/20 CFM mode when installing.

#### Sizing example 1 (based on ASHRAE 62.2):

##### TWO BEDROOMS at 1600 SQ. FT.

Master Bedroom (7.5 CFM x 2)	=	15 CFM
Second Bedroom	=	7.5 CFM
1600 SQ. FT. x .01	=	16 CFM

**Total 38.5 CFM**

Use WhisperComfort set at 40 CFM

### Whole House Ventilation (IAQ)

	ASHRAE 62.2 2007		
	1 Bedroom	2 Bedrooms	3 Bedrooms
20 CFM	500 sq ft.	N/A	N/A
40 CFM	2500 sq ft.	1750 sq ft.	1000 sq ft.

Need to choose 20/40 CFM mode when installing.

#### Sizing example 2 (based on ASHRAE 62.2):

##### FOUR BEDROOMS at 2200 SQ. FT.

Master Bedroom (7.5 CFM x 2)	=	15 CFM
Other 3 Bedrooms (7.5 CFM each)	=	22.5 CFM
2200 SQ. FT. x .01	=	22 CFM

**Total 59.5 CFM**

Use 2 WhisperComfort or 1 WhisperComfort and 1 WhisperGreen®\*

\* WhisperGreen® are Panasonic exhaust fans with DC motor and variable speed built-in controls. Ideal for both bathroom intermittent ventilation and whole house continuous run ventilation.