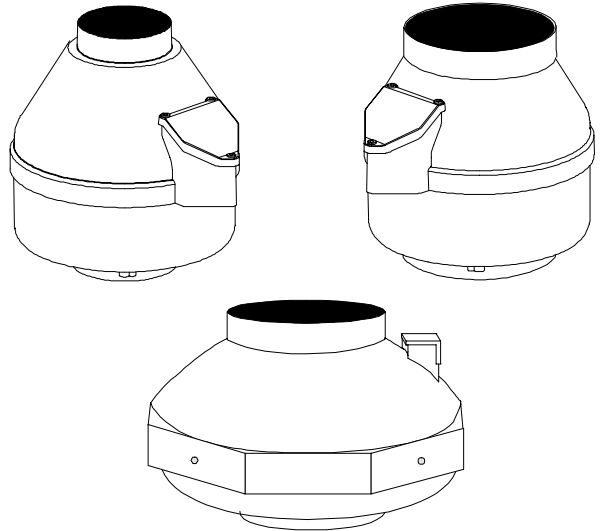




# General Purpose Inline Fan Application Notes

Environmental Technologies, Inc.

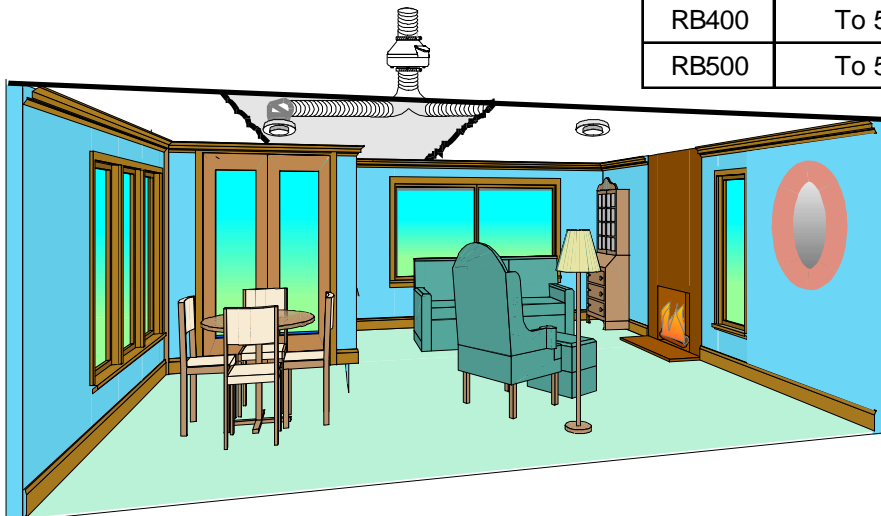
- *HVI Certified*
- *Ultra Quiet*
- *High Performance*
- *Rated for Continuous Duty*
- *Rated for Commercial and Residential Use*
- *Models to Fit Every Need*
- *Five Year Warranty*



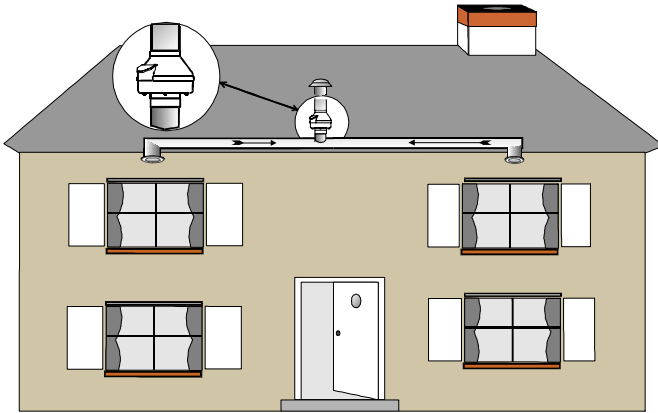
## General Ventilation

- Intake or Exhaust
- Intermittent or Continuous
- Remotely mounted fan produces almost no noise in living area

Model	Living or Office Area	
	Intermittent - 6 ACH	Continuous - .35 ACH
RV100	To 125 sq ft	To 2150 sq ft
RV125	To 140 sq ft	To 2360 sq ft
RV150	To 175 sq ft	To 3000 sq ft
RV175	To 200 sq ft	To 3425 sq ft
RV200	To 215 sq ft	To 3650 sq ft
RV250	To 240 sq ft	To 4075 sq ft
RB300	To 365 sq ft	To 6200 sq ft
RB400	To 590 sq ft	To 10000 sq ft
RB500	To 575 sq ft	To 9850 sq ft



## Continuous Ventilation

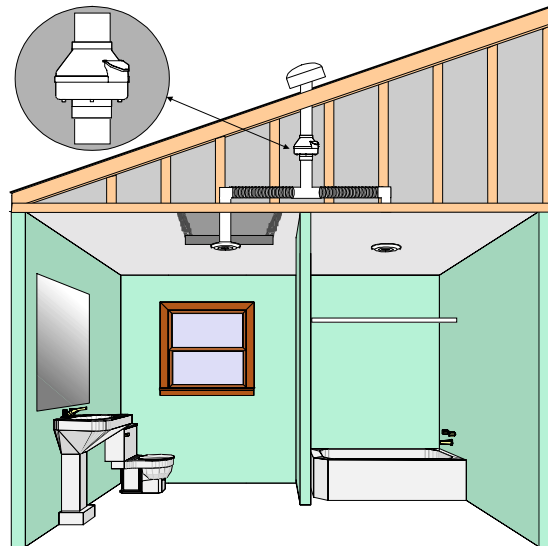


Model	Continuous@ .35 ACH
RV100	To 2150 sq ft
RV125	To 2360 sq ft
RV150	To 3000 sq ft
RV175	To 3425 sq ft
RV200	To 3650 sq ft
RV250	To 4075 sq ft
RB300	To 6200 sq ft
RB400	To 10000 sq ft
RB500	To 9850 sq ft

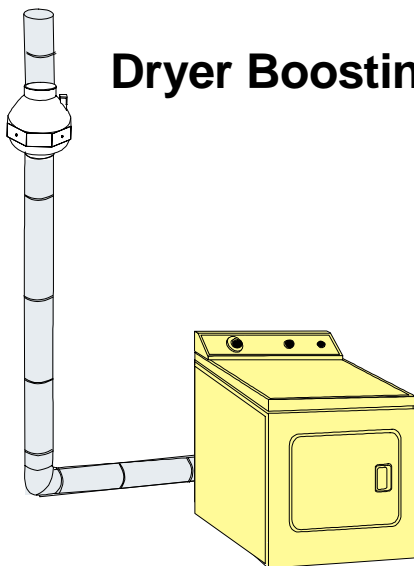
- Attic mounted fan produces almost no noise in bathroom
- Can use multiple inlets with single fan

## Bathroom Exhausting

Model	Bathroom Exhaust Based on 8 ACH
RV100	Up to 95 sq ft
RV125	Up to 105 sq ft
RV150	Up to 130 sq ft
RV175	Up to 150 sq ft
RV200	Up to 160 sq ft
RV250	Up to 180 sq ft
RB300	Up to 270 sq ft
RB400	Up to 440 sq ft
RB500	Up to 430 sq ft

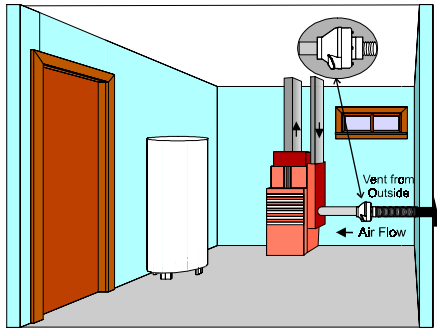


## Dryer Boosting



- In many of today's homes, dryers are being installed along interior walls requiring long duct runs which compromise dryer efficiency.
- Use a DB100 Dryer Boost fan when the total duct length exceeds the manufacturer's recommendation
- Ideal for luxury homes, apartments, condominiums and multi-family dwellings.
- Operate using a timer, manual switch or automatic pressure-sensing switch.

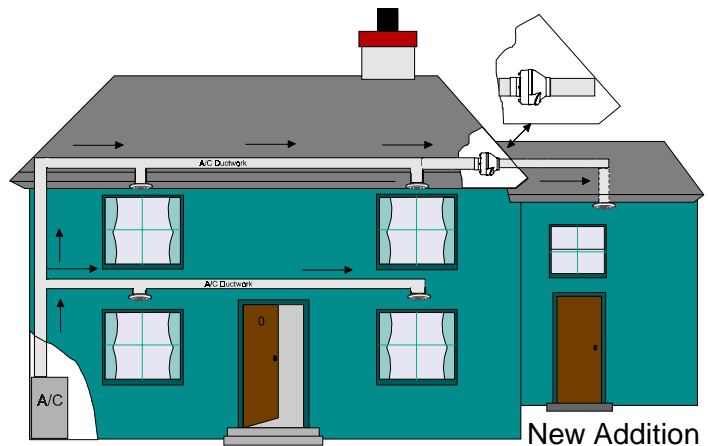
## IAQ Fresh Air Injection & Building Pressurization



Model	Building Pressurization
RV100	To 2000 sq ft
RV125	To 2500 sq ft
RV150	To 3000 sq ft
RV175	To 3000 sq ft
RV200	To 4000 sq ft
RV250	To 5000 sq ft
RV300	To 6000 sq ft
RV400	To 9000 sq ft
RV500	To 9500 sq ft

## Duct Boosting or Fan Retrofit

- Provide additional air handling capabilities for a new addition
- Replace a failed fan without doing a major ceiling job. Use the housing as an intake grille.
- Boost an existing bathroom fan for more effective exhausting

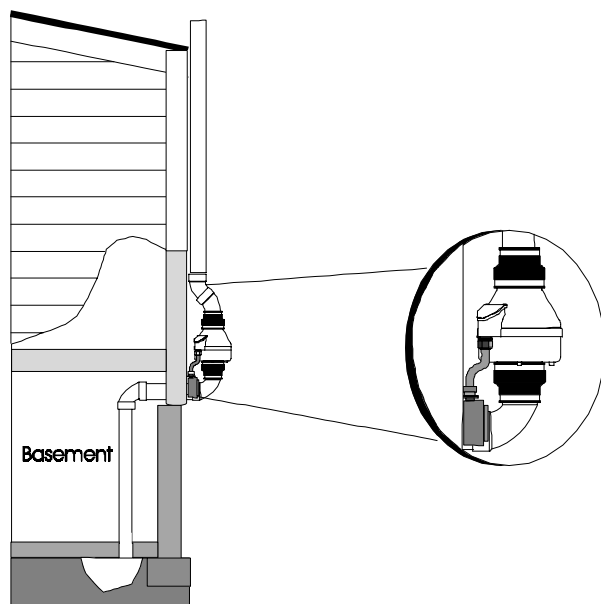


## Radon Mitigation

The RV175 was specifically designed for radon mitigations.

### The RV175 Radon Fan Kit includes:

- RV175 Radon Fan
- Two rubber couplings to connect the fan to 4" schedule 40 PVC pipe.
- Manometer
- System labels



# Spruce Fan Specifications

## Fan Selection

Fan selection is based on room size and required air changes per hour (ACH). The following table presents recommendations based on these two factors.

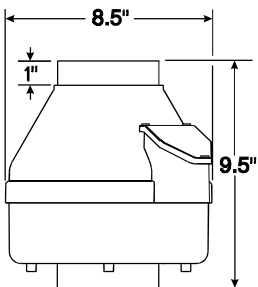
Model	CFM @ .2" WC	Duct	Bathroom Exhaust Based on 8 ACH	Living or Office Areas		Building Pressurization
				Intermittent - 6 ACH	Continuous - .35 ACH	
RV100	100	4"	Up to 95 sq ft	To 125 sq ft	To 2150 sq ft	To 2000 sq ft
RV125	110	4"	Up to 105 sq ft	To 140 sq ft	To 2360 sq ft	To 2500 sq ft
RV150	140	4"	Up to 130 sq ft	To 175 sq ft	To 3000 sq ft	To 3000 sq ft
RV175	160	5"	Up to 150 sq ft	To 200 sq ft	To 3425 sq ft	To 3000 sq ft
RV200	170	6"	Up to 160 sq ft	To 215 sq ft	To 3650 sq ft	To 4000 sq ft
RV250	190	6"	Up to 180 sq ft	To 240 sq ft	To 4075 sq ft	To 5000 sq ft
RB300	290	6"	Up to 270 sq ft	To 365 sq ft	To 6200 sq ft	To 6000 sq ft
RB400	470	8"	Up to 440 sq ft	To 590 sq ft	To 10000 sq ft	To 9000 sq ft
RB500	460	10"	Up to 430 sq ft	To 575 sq ft	To 9850 sq ft	To 9500 sq ft

## Fan Performance

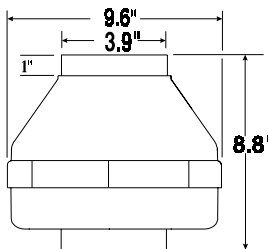
The following chart shows fan performance:

Model	Watts	Warranty	Typical CFM vs. Static Pressure WC"						
			0"	.2"	.5"	.75"	1.0"	1.25"	1.5"
DB100	36-44	5 Years	139	120	91	50	—	—	—
RV100	35-44	5 Years	113	100	72	48	19	—	—
RV125	48-68	5 Years	116	110	98	88	72	57	44
RV150	48-65	5 Years	152	140	120	100	77	53	26
RV175	50-65	5 Years	174	160	137	112	83	47	11
RV200	49-65	5 Years	184	170	145	123	92	48	1
RV250	68-116	5 Years	218	190	150	124	95	62	27
RB300	65-90	5 Years	307	290	253	220	182	142	97
RB400	103-156	5 Years	510	470	390	315	269	218	165
RB500	103-156	5 Years	498	460	385	319	254	197	136

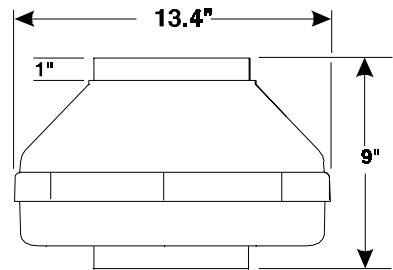
## Fan Dimensions



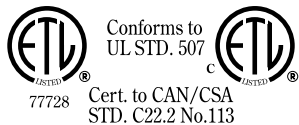
RV Series



DB100



RB Series



Per HVI's Certified Ratings Program, charted airflow performance has been derated by a factor based on actual test results and the certified rate at .2" WC.

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