



# BATH VENTILATION SOLUTIONS



EXHAUST FANS  
VENT LIGHTS  
EXHAUST KITS



IMPROVING INDOOR AIR QUALITY THROUGH BETTER VENTILATION

April 2005 – SBB0405

[www.fantech.net](http://www.fantech.net)

# BATH VENTILATION SOLUTIONS

## HOW TO SIZE YOUR BATH VENTILATION SYSTEM

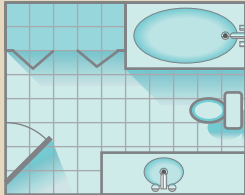
*These recommendations follow the guidelines of the Home Ventilating Institute (HVI).*

### FAN SIZING FOR BATHS UNDER 100 Sq. Ft.

The standard rule for baths 100 square feet or smaller is one CFM per square foot of bathroom. To find the square footage simply multiply the length of the bath by the width.

8' x 10' bath = 80 square feet.

You will need an 80 CFM fan for this bath.



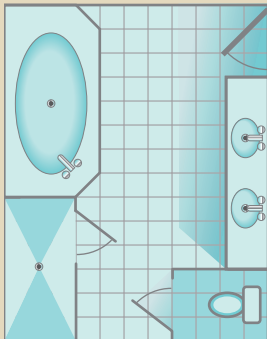
### FAN SIZING FOR BATHS OVER 100 Sq. Ft.

Ventilation for baths over 100 square feet is calculated based on the fixtures in the bath. Allow 50 CFM for each standard toilet, shower, steam shower\* or tub. Whirlpool, garden and hot tubs are calculated at 100 CFM. Add up the CFMs for all fixtures and you'll have the total CFMs required.

11' x 14' Bath = 154 square feet

1 Toilet +  
1 Shower +  
1 Garden Tub = 200 CFM

You will need a 200 CFM fan for this bath.



\* Fantech recommends that steam showers use a separate fan on a timer so that the fan may be shut off during shower use and then run afterward to dry the shower stall.

For proper airflow in typical installations (when duct losses aren't calculated), use the 0.4" Ps (static pressure) rating point for correct fan selection.

Note: To complete Fantech Bath Exhaust System installation, purchase insulated flex duct, roof/wall cap and switch separately. For complete list of accessories visit [www.fantech.net](http://www.fantech.net).

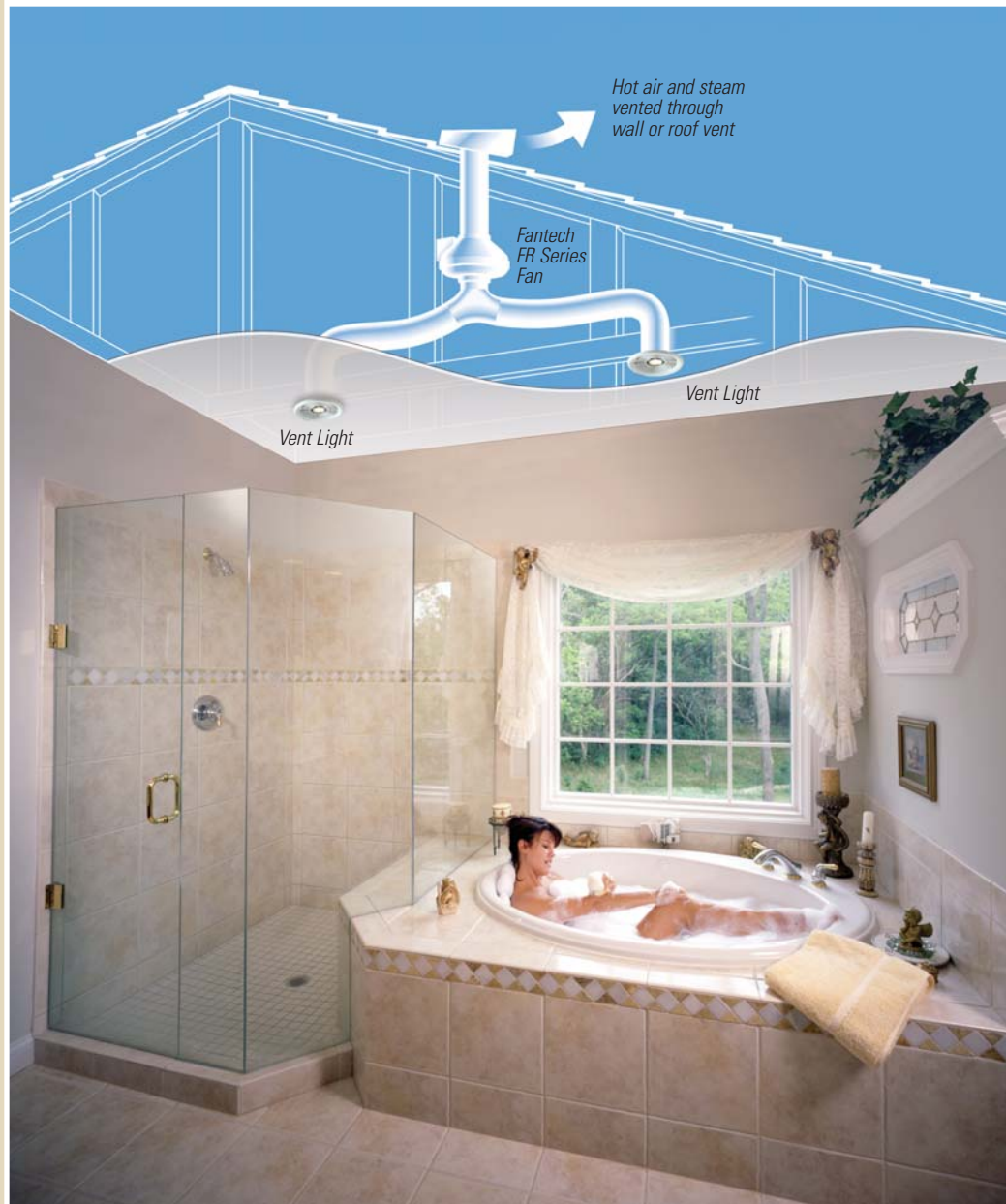
*Illustration at right shows how one remote mounted Fantech fan and two Vent Light grilles can be used to light and ventilate two different areas of a master bath.*

Don't let the roar of a noisy bath fan disrupt your peace and quiet. Protect your bath and your sanity with Fantech Inline Exhaust Fans. Unlike standard bathroom fans, the fan motor mounts away from the living area. The result is a bathroom exhaust system that is powerful yet quiet.

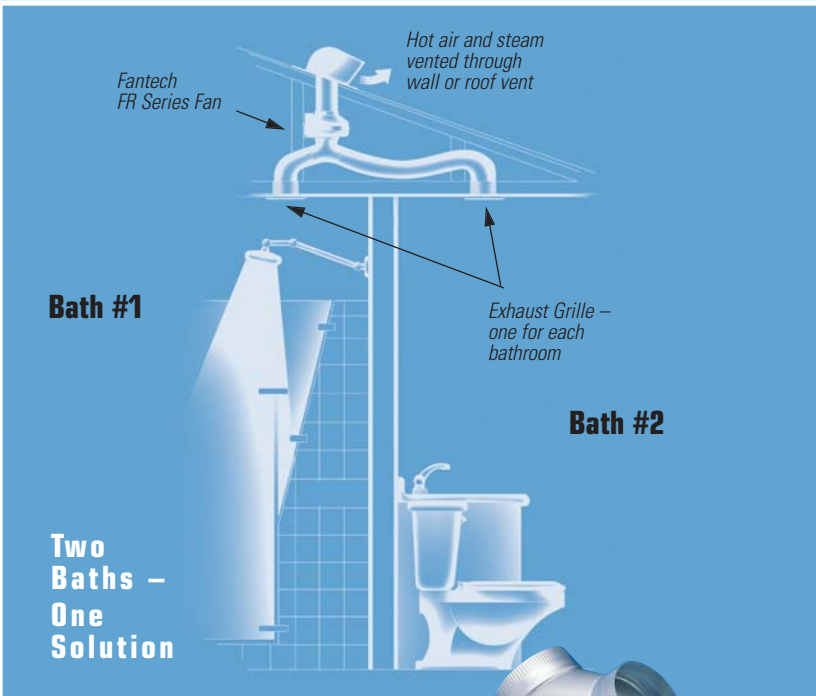
Choose single port or multi-port kits with or without lights.



Look for the Energy Star Symbol on many of our Exhaust Fans and Bath Kits.



# BATH EXHAUST KITS



## REG SERIES Single-Port Bath Exhaust Kits

Clear the air in smaller baths and powder rooms with the help of a Fantech REG Series exhaust kit. Each kit includes an inline exhaust fan, mounting bracket, one 4" or 6" grille/collar/damper combination and clamps.

### REG100 Bath Exhaust Kit

122 CFM fan (FR100) and one 4" grille/collar/damper. Uses 4" duct. Energy Star Rated.



### REG140 Bath Exhaust Kit

214 CFM fan (FR140) and one 6" grille/collar/damper. Uses 6" duct. Energy Star Rated.



*Fantech recommends the use of insulated flexible duct when installing exhaust kits.*

*For fan dimensions, refer to chart under FR Series Fan in this brochure.*

### Exhaust Kit Performance

Kit Model	Fan Model	Energy Star	Rated Watts	Max Amps	CFM 0" Ps	CFM .2" Ps	CFM .4" Ps	Duct Dia.
REG 100	FR 100	✓	19	0.18	122	100	78	4"
REG 140	FR 140	✓	61	0.53	214	190	162	6"

## DLX SERIES Two-Port Bath Exhaust Kits

Today's larger master baths require more ventilation than a single exhaust fan in the center of the ceiling. Upgrade to a Fantech two-port bath exhaust kit that ventilates two different areas of a bath from one remote fan. Put one port over the shower and one over the toilet area; or use the kit as shown in the illustration above to ventilate two different baths. Kits include inline fan, mounting bracket, Y-adapter, two 4" or 6" grille/collar/damper combinations and mounting hardware.

### DLX110 Two-Port Exhaust Kit

167 CFM fan (FR110) and two 4" grille/collar/damper combinations. Uses 4" duct.

### DLX150 Deluxe Two-Port Exhaust Kit

263 CFM fan (FR150) and two 6" grille/collar/dampers. Uses 6" duct. Energy Star Rated.



### DLX200 Deluxe Two-Port Exhaust Kit

408 CFM fan (FR200) and two 6" grille/collar/dampers. Uses 6" and 8" duct. Energy Star Rated.



*For fan dimensions, refer to chart under FR Series Fan in this brochure.*

### Exhaust Kit Performance

Kit Model	Fan Model	Energy Star	Rated Watts	Max Amps	CFM 0" Ps	CFM .2" Ps	CFM .4" Ps	Duct Dia.	Multiple Rooms Total (ft <sup>2</sup> )
DLX 110	FR 110		80	0.72	167	150	133	4"	up to 130
DLX 150	FR 150	✓	71	0.67	263	230	198	6"	up to 200
DLX 200	FR 200	✓	122	1.11	408	360	308	8"	up to 300

# VENT LIGHT EXHAUST KITS

**NEW  
FLUORESCENT  
MODEL**



**NEW!**

## VLCF4 Fluorescent Vent Light

Energy Star Rated fluorescent fixture for use with Fantech remote mount exhaust fans. Features heavy gauge galvanized steel housing (5 1/2" square) with twin hanger bars and side discharge. Includes 6" grille and instant-on 14 watt fluorescent bulb. Uses 4" duct. Designed for wet locations.

**NEW!**

## REG100FL Fluorescent Vent Light Kit

New single port fluorescent Vent Light kit with 122 CFM fan (FR100), mounting bracket, clamps, 6" grille and 14 watt fluorescent bulb. Uses 4" duct. Energy Star Rated.

**NEW!**

## DLX150FL Two-Port Fluorescent Vent Light Kit

Everything you need to light and vent two areas of one large bath or two smaller back-to-back baths. Includes 263 CFM inline exhaust fan (FR150), two VLCF4 Vent Light fixtures, Y-adapter, mounting bracket, mounting hardware and two 14 watt instant-on fluorescent bulbs. Uses 4" and 6" duct.

*Note: For between floor applications where space is an issue, a VLCF4 can also be used with Fantech's RVF and RE Exterior Mount Fans.*

### Fluorescent Vent Light Kit Performance

Kit Model	Fan Model	Energy Star*	Rated Watts	Max Amps	CFM 0" Ps	CFM .2" Ps	CFM .4" Ps	Duct Dia.	Multiple Rooms Total (ft <sup>2</sup> )
REG 100FL	FR 100	✓	19	0.18	122	100	78	4"	—
DLX 150FL	FR 150	✓	71	0.67	263	230	198	6" up to 200	

\* Fans are Energy Star rated. Energy Star and UL approvals on light assembly pending at time of publication. Call Fantech Customer Service for update.



## VLC64 Vent Light with 50 Watt Halogen Bulb

Use with Fantech remote mount exhaust fans. Includes dimmable, pre-wired Vent Light fixture complete with backdraft damper, transformer, 50-watt halogen bulb and 6" to 4" reducer. Use with either 4" or 6" duct. UL listed for wet locations.

## REG100L Single-Port Vent Light Kit

Includes 122 CFM fan (FR100), mounting bracket, one VLC64 Vent Light fixture with 6" to 4" reducer, one 50-watt halogen bulb and mounting hardware. Uses 4" duct.

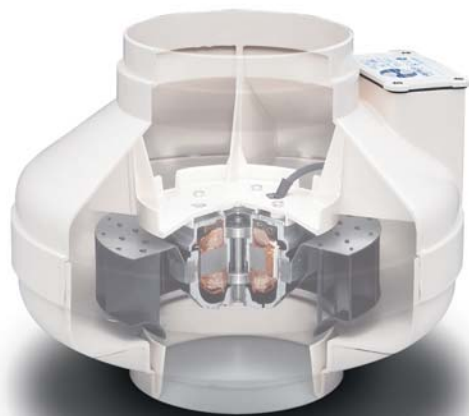
## DLX150L Two-Port Vent Light Kit

This dual port kit provides both effective ventilation and light for two areas of one large bath or two smaller baths. Includes 263 CFM inline exhaust fan (FR150), two VLC64 Vent Light fixtures, Y-adapter, mounting bracket, mounting hardware and two 50-watt halogen bulbs. Uses 6" duct.

### Vent Light Kit with Halogen Bulb Performance

Kit Model	Fan Model	Rated Watts	Max Amps	CFM 0" Ps	CFM .2" Ps	CFM .4" Ps	Duct Dia.	Multiple Rooms Total (ft <sup>2</sup> )
REG 100L	FR 100	19	0.18	122	100	78	4"	—
DLX 150L	FR 150	71	0.67	263	230	198	6" up to 200	

# INLINE EXHAUST FANS



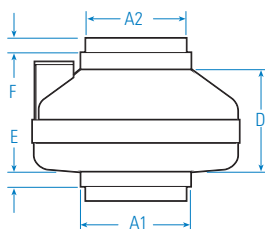
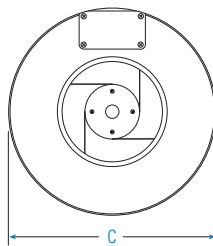
## FR SERIES EXHAUST FANS

The FR Series Fan is the heart of Fantech's Bathroom Exhaust Systems. This versatile inline fan is powered by an external rotor motorized impeller designed for long life and dependable performance. It features a plastic housing constructed of UL-recognized and UV-protected thermoplastic resin. This tough protective shell allows the fan to be mounted in wet locations. UL tested and approved.

- **Prewired**
- **4" to 8" Duct; 122-408 cfm**
- **100% speed controllable**
- **Powered by external rotor motorized impeller**
- **Five year factory warranty**
- **Rated for continuous duty**

### FR Series Dimensions

Model	A1	A2	C	D	E	F
FR 100	4	5	9 1/2	6 1/8	7/8	7/8
FR 110	4	5	9 1/2	6 1/8	7/8	7/8
FR 125	-	5	9 1/2	6 1/8	7/8	-
FR 140	6	6 1/4	11 3/4	5 7/8	1	7/8
FR 150	6	6 1/4	11 3/4	5 7/8	1	7/8
FR 160	6	6 1/4	11 3/4	6 3/8	1	7/8
FR 200	8	10	13 1/4	6 1/4	1 1/2	1 1/2



### FR Series Performance

Fan Model	Energy Star	Rated Watts	Max Amps	Static Pressure in Inches W.G.			
				0"	.2"	.4"	.6"
FR 100	✓	19	0.18	122	100	78	55
FR 110		80	0.72	167	150	133	113
FR 125	✓	18	0.18	148	120	88	47
FR 140	✓	61	0.53	214	190	162	132
FR 150	✓	71	0.67	263	230	198	167
FR 160		129	1.14	289	260	233	206
FR 200	✓	122	1.11	408	360	308	259

*FR Series is shown with ducted outlet. Per HVI's Certified Ratings Program, charted air flow performance has been derated by a factor based on actual test results and the certified rate at .2 inches W.G.*



## SOUND LEVELS

Remote mounted fans are extremely quiet when installed properly.

We recommend the following:

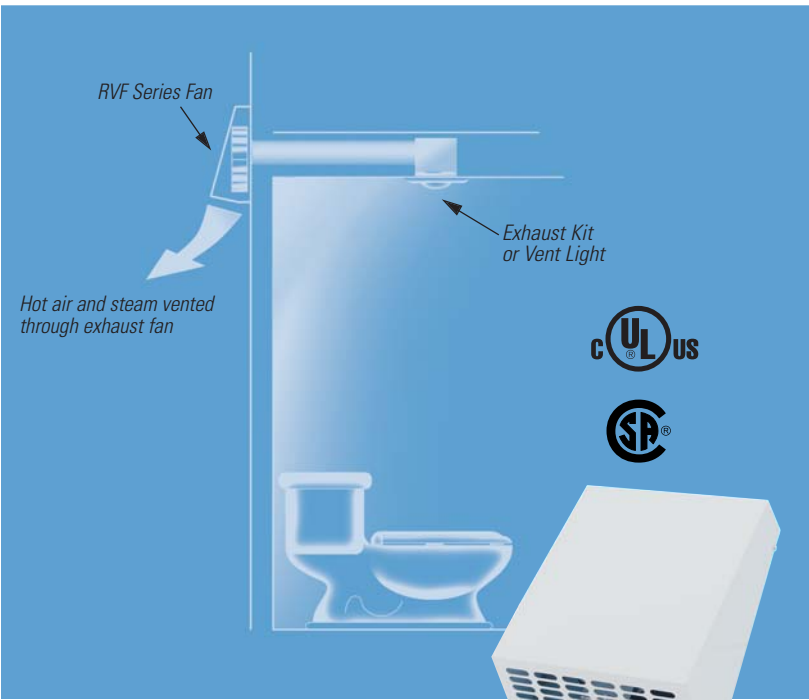
1. Use insulated flexible duct for the system.
2. Place at least 8 feet of duct between intake grille and fan. (Insulated flexible duct allows sound from fan to dissipate gradually so that it can not be heard in the bathroom.)
3. If applicable, use multiple intake points.

## VENT LOCATIONS

Locate the vent intake as close to the bath fixtures (toilets, showers and hot tubs) as possible. Try to keep the vent as far from doors, operable windows and air supply registers as possible.

For best ventilation the air should flow across the room to remove the moist, humid air. Remote fans allow the use of multiple intakes with a single fan.

# EXTERIOR EXHAUST FANS

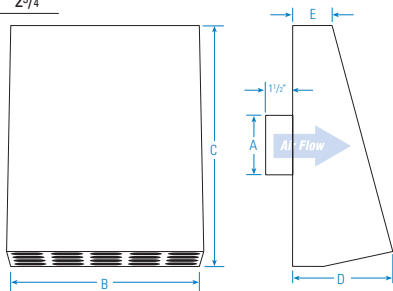


## RVF SERIES Exhaust Fans

Exterior mounted exhaust fans can provide the perfect solution when space is at a minimum. Ideal for homes, condominiums and apartment complexes. Fans mount on an exterior wall. Perfect for between floor applications. Sizes from 110 CFM to 242 CFM. Duct sizes from 4" to 6".

### RVF Series Dimensions

Model	A	B	C	D	E
RVF 4	4	10 1/4	13	6	2 3/4
RVF 4XL	4	10 1/4	13	6	2 3/4
RVF 6	6	10 1/4	13	6	2 3/4



### RVF Series Performance

Fan Model	Rated Watts	Max Amps	Static Pressure in Inches W.G.					Multiple Rooms Total (ft <sup>2</sup> )
			0"	.1"	.2"	.4"	.6"	
RVF 4	20	0.17	124	110	98	71	36	-
RVF 4XL	71	0.60	193	180	172	154	136	up to 160
RVF 6	71	0.60	242	220	204	177	150	up to 180

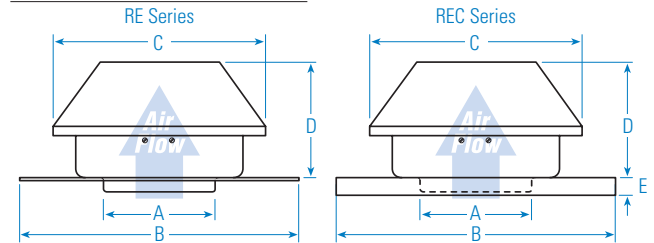
## RE/REC SERIES Exhaust Fans

Exterior mounted. RE models can be mounted on a sidewall or a slanted roof. REC models mount on a curb. Models from 126 CFM to 227 CFM. Duct sizes from 4" to 6".

### RE/REC Series Dimensions

Model	A	B	C	D	E
RE 54	5*	15 1/2	9 1/2	6	-
REC 54	5*	15 1/2	9 1/2	6	1 1/2
RE 6	6	15 1/2	13 3/16	6 1/2	-
REC 6	6	15 1/2	13 3/16	6 1/2	1 1/2

\* Includes 5-4" reducer to allow use of 4" duct.



### RE/REC Series Performance

Fan Model	Rated Watts	Max Amps	Static Pressure in Inches W.G.					Multiple Rooms Total (ft <sup>2</sup> )
			0"	.25"	.5"	.75"	1.0"	
RE 54/REC 54	19	0.17	126	100	77	52	-	-
RE 6/REC 6	71	0.60	227	199	169	134	106	up to 180



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