Designing a Luxury Bath

You’ve spent hours pouring over magazines to find the perfect design for your new spa-like bathroom retreat. You’ve chosen the perfect tile, the whirlpool tub, beautiful faucets and luxurious shower sprays.

Don’t stop there. Insist on a Fantech ultra-quiet Premium Bath Fan or Fan with Light to protect your new dream bath from the harmful effects of moisture, steam and odors.

It’s powerful ventilation that you can live with.

Look for the Energy Star Symbol ...

Fantech is proud to partner with Energy Star to provide energy efficient bath ventilation products for your home. In fact, more than two-thirds of Fantech Premium Bath Fans exceed the minimum standards required for Energy Star Qualified products.

Energy Star Ventilation Fans Must Have:
• Super Quiet Operation
• High CFM/Watt Motor Efficacy (100 CFM Fan: 2.8 CFM/Watt)
• May Qualify For Local Utility Rebate

See Quick View Selection Guide (pgs. 8 & 9) to easily identify models that carry the Energy Star symbol.
Fantech's Popular Inline Fan At The Heart of Our Premium Bath Fans

At the heart of Fantech's Premium Bath Fans is a versatile inline fan powered by an external rotor motorized impeller. This fine quality German manufactured motor is designed for long life and dependable performance.

Fan 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. HVI tested and certified for performance.

Don't let the roar of a noisy bath fan disrupt your peace and quiet. Protect your bath and your sanity with Fantech Premium Bath Fans. Unlike standard bath exhaust fans, the motor of a Fantech fan mounts away from the living area. The result is powerful yet quiet ventilation you can live with.

A New Level of Flexibility
No other exhaust fan in the market today offers more design flexibility at installation. Several exhaust grilles can easily be connected to one remote fan motor for effective spot ventilation in a single bath. Or, use one fan to ventilate two back-to-back baths.

Perfect Spot Ventilation
Small, unobtrusive Ceiling Grilles with or without Lights mount in the shower, over the toilet or over the whirlpool tub. It's the ideal way to exhaust contaminants quickly and efficiently while reducing the damaging effects of mold-causing moisture.

Fantech’s Popular Inline Fan At The Heart of Our Premium Bath Fans

All models are UL Listed for use in wet locations. HVI (Home Ventilating Institute) certified for performance. All models are IC Rated.

- Powered by ebm-papst external rotor motor
- Superior CFM at higher static pressure; 100 CFM @ .2 static
- 100% speed controllable
- Rated for continuous duty
- 4" to 8" Duct
Clear the air in smaller baths and powder rooms with the help of a Fantech Premium Bath Fan or Bath Fan with Light.

A small-scale grille mounts in the ceiling while the fan motor mounts in a remote location away from the living area. The result is quiet yet powerful ventilation that is sure to protect your home from the damaging effects of moisture, steam and mold.

**FAN SIZING FOR BATHS UNDER 100 SQ. FT.**

According to the guidelines of HVI (Home Ventilating Institute) baths 100 square feet or smaller require one CFM per square foot of bathroom*. To find the square footage simply multiply the length of the bath by the width.

**EXAMPLE**

7’ x 9’ bath = 63 sq. ft.

YOU WILL NEED A 63 CFM FAN.

* Minimum 50 CFM

NOTE: 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.
PB100 Bath Fan
100 CFM fan, one Ceiling Grille and grille housing with damper. Uses 4” duct. Energy Star Qualified.

PB190 Premium Bath Fan (not shown)
190 CFM fan, one Ceiling Grille, and grille housing with damper. Uses 6” duct. Grille housing fits between 2 x 8 construction. Energy Star Qualified.

PB100F Bath Fan with Fluorescent Light
100 CFM bath fan, one Ceiling Grille with Light, grille housing with damper, and 14-watt, instant-on, fluorescent bulb. Uses 4” duct. Energy Star Qualified. UL Listed for wet locations.

PB100H Bath Fan with Dimmable Halogen Light
100 CFM bath fan, one Ceiling Grille with Light, grille housing with damper, and 50-watt halogen bulb. Uses 4” duct. UL Listed for wet locations.

Did You Know??
The Home Ventilating Institute (HVI) recommends that “the bath fan be left on 20 minutes after the use of the bathroom” to successfully fight the damaging effects of moisture. See Fantech Programmable Controls and Timers (page 10).

Contractor Friendly Installation
Fantech Premium Bath Fans are “flex duct friendly” making installation fast and easy. We recommend:
1. Use insulated flexible duct. (Insulated flex duct allows sound from the fan to dissipate gradually so that it can not be heard in the bathroom.)
2. Ideally you should have at least 8 feet of flex duct between ceiling grilles and fan.
3. If applicable, use multiple ceiling grilles or ceiling grilles with lights.

FD60EM
10-20-30-40 Minute Timer

VT20M
Ventech Programmable Fan Controls
As the trend to larger spa-like bathrooms continues to gain in popularity, the need for proper ventilation becomes more important.

Gone are the days of a single bath fan in the center of the room. The key to proper ventilation in oversized baths filled with luxurious amenities is true spot ventilation at the source.

Quick removal of moisture at the source will keep your beautiful bath free of mold and the effects of extreme moisture.

Fantech has developed its Premium Bath Fans so that one remote mounted fan motor can effectively ventilate several areas of the bath. Ceiling Grilles or Ceiling Grilles with Lights can be easily positioned over showers, whirlpool tubs, steam showers, toilet and vanity.

### 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 or tub. Whirlpool and jetted tubs are calculated at 100 CFM. Add up the CFMs for all fixtures and you'll have the total CFMs required.

**EXAMPLE**

<table>
<thead>
<tr>
<th>11’ x 14’ Bath = 154 square feet</th>
<th>1 Toilet + 1 Shower + 1 Jetted Tub = 200 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 Toilet</td>
</tr>
<tr>
<td></td>
<td>50 CFM</td>
</tr>
<tr>
<td></td>
<td>1 Shower</td>
</tr>
<tr>
<td></td>
<td>50 CFM</td>
</tr>
<tr>
<td></td>
<td>1 Jetted Tub</td>
</tr>
<tr>
<td></td>
<td>100 CFM</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong> 200 CFM</td>
</tr>
</tbody>
</table>

**YOU WILL NEED A 200 CFM FAN.**

NOTE: 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.
PB230-2 Premium Bath Fan with Dual Grilles
230 CFM fan, two Ceiling Grilles, two grille housings with dampers and Y-adapter (4x4x6). Uses 4" and 6" duct. Energy Star Qualified.

PB360-2 Larger Premium Bath Fan with Dual Grilles
360 CFM fan, two Ceiling Grilles, two grille housings with dampers and Y-adapter (6x6x8). Uses 6" and 8" duct. Grille housing fits between 2 x 8 construction. Energy Star Qualified.

PB230F-2 Premium Bath Fan – Dual Grilles with Fluorescent Lights
230 CFM fan, two Ceiling Grilles with Lights, two grille housings with dampers and Y-adapter (4x4x6). Uses 4" and 6" duct. Energy Star Qualified. UL Listed for wet locations.

PB230H-2 Premium Bath Fan – Dual Grilles with Dimmable Halogen Lights
230 CFM fan, two Ceiling Grilles with Lights, two grille housings with dampers, two 50 watt Halogen bulbs and Y-adapter (4x4x6). Uses 4" and 6" duct. UL Listed for wet locations.
Combination Bath Fans – Dual Grilles

Fantech takes the work out of choosing the right bath fan for your new home or remodeling project.

**Premium Bath Combination Units.**
Combo units include one exhaust fan, one lit and one unlit Ceiling Grille. A single model number provides the exact bath fan components to install an effective two-location exhaust system.

**Want to add an additional exhaust location?** Just choose an additional Ceiling Grille with or without a light to turn your one or two location bath fan into a fabulous multiport system.

**Combination Units - Dual Grilles - One with Light/One Vent-Only**

**PB230FV-2 Fan with One Ceiling Grille with Fluorescent Light and One Vent-Only Ceiling Grille**
230 CFM fan, one Ceiling Grille with Light, one Vent-Only Ceiling Grille, two grille housings with dampers, one 14 watt instant-on Fluorescent bulb and Y adapter (4x4x6). Uses 4" and 6" duct. Energy Star Qualified. UL Listed for wet locations.

**PB230HV-2 Fan with One Ceiling Grille with Dimmable Halogen Light and One Vent-Only Ceiling Grille**
230 CFM fan, one Ceiling Grille with Light, One Vent-Only Ceiling Grille, two grille housings with dampers, one 50 watt Halogen bulb and Y adapter (4x4x6). Uses 4" and 6" duct. Energy Star Qualified. UL Listed for wet locations.
Fantech has expanded its Premium Bath Fan selection to include a trio of models powered by exterior mounted wall fans. An excellent alternative when space is an issue or direct venting to the outside is required. Ideal for homes, condominiums and apartment complexes. Choose vent only or lighted models.

PBW110H Exterior Wall Mount Bath Fan with Dimmable Halogen Light
110 CFM fan, one Ceiling Grille with Light, grille housing with damper and 50 watt halogen bulb. UL Listed for wet locations.

PBW110F Exterior Wall Mount Bath Fan with Fluorescent Light
110 CFM fan, one Ceiling Grille, one grille housing with damper and one 14-watt instant-on fluorescent bulb. UL Listed for wet locations. Energy Star Qualified.

PBH4 Ceiling Grille with Dimmable Halogen Light
For use with Fantech remote fans. Includes Ceiling Grille with Halogen light, grille housing with damper, four hanger bars and 50-watt halogen bulb. Grille housing: 6"L x 6"W x 5 1/4"H. Fits between 2x6 construction.

PBV4 Ceiling Grille
For use with Fantech remote fans. Includes Ceiling Grille, grille housing with damper and four hanger bars. Grille housing: 6"L x 6"W x 5 1/4"H. Fits between 2x6 construction.

PBV6 Ceiling Grille
For use with Fantech remote fans. Includes Ceiling Grille, grille housing with damper and four hanger bars. Grille housing: 8"L x 8"W x 7 1/8"H. Fits between 2x8 construction.
### Quick View Selection Guide

<table>
<thead>
<tr>
<th>Fantech Premium Bath Fan Model Number</th>
<th>CFM @ .2 Static Pressure</th>
<th>CFM @ .4 Static Pressure</th>
<th>CFM @ .6 Static Pressure</th>
<th>Duct Size</th>
<th>Watts @ .2 Static Pressure</th>
<th>Lamp</th>
<th><strong>SEVEN YEAR WARRANTY</strong></th>
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<tr>
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<td>198</td>
<td>167</td>
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<td>308</td>
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<td>78</td>
<td>55</td>
<td>4&quot;</td>
<td>19</td>
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<td>50 Watt Halogen (PBB50)</td>
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<tr>
<td><strong>PREMIUM BATH FANS WITH LIGHTS - DUAL GRILLES</strong></td>
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<td>PB230H-2</td>
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<td>198</td>
<td>167</td>
<td>4&quot;/6&quot;</td>
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<td>50 Watt Halogen (PBB50)</td>
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<td><strong>PREMIUM BATH FANS - COMBINATION UNITS - ONE LIT AND ONE UNLIT GRILLE</strong></td>
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<td>71</td>
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<td>50 Watt Halogen (PBB50)</td>
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</tbody>
</table>

*The Compact Fluorescent bulb used in Fantech Premium Bath Fans has a color temperature of 2733 Kelvin and CRI of 81. Average bulb life: 10,000 hours. Need replacement bulbs? Order PBB14 for Fluorescent Models; PBB50 for Halogen Models.
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<table>
<thead>
<tr>
<th>Fantech Premium Bath Fan Model Number</th>
<th>CFM @ .1 Static Pressure</th>
<th>CFM @ .2 Static Pressure</th>
<th>CFM @ .4 Static Pressure</th>
<th>Duct Size</th>
<th>Watts @ .2 Static Pressure</th>
<th>Lamp</th>
<th>SEVEN YEAR WARRANTY</th>
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<td>PBW110</td>
<td>110</td>
<td>97</td>
<td>71</td>
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<tr>
<td>PBW110F</td>
<td>110</td>
<td>97</td>
<td>71</td>
<td>4”</td>
<td>19</td>
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<td>14 Watt Instant-on Compact Fluorescent (PBB14)*</td>
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<tr>
<td>PBW110H</td>
<td>110</td>
<td>97</td>
<td>71</td>
<td>4”</td>
<td>19</td>
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<td>50 Watt Halogen (PBB50)</td>
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<table>
<thead>
<tr>
<th>Fantech Premium Bath Fan Model Number</th>
<th>Duct Size</th>
<th>Housing Dimensions</th>
<th>Lamp</th>
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<tr>
<td>PBF4</td>
<td>4”</td>
<td>6”L x 6”W x 5¼”H</td>
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<td>PBH4</td>
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</tr>
<tr>
<td>PBV4</td>
<td>4”</td>
<td>6”L x 6”W x 5¼”H</td>
<td>–</td>
</tr>
<tr>
<td>PBV6</td>
<td>6”</td>
<td>8”L x 8”W x 7½”H</td>
<td>–</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Fantech Premium Bath Fan Model Number</th>
<th>Width (Diameter)</th>
<th>Height</th>
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</thead>
<tbody>
<tr>
<td>PB100</td>
<td>9½”</td>
<td>9½/8”</td>
</tr>
<tr>
<td>PB230</td>
<td>11¾”</td>
<td>9½/8”</td>
</tr>
<tr>
<td>PB360</td>
<td>13¼”</td>
<td>12½/4”</td>
</tr>
<tr>
<td>PBWV</td>
<td>10½”</td>
<td>13”</td>
</tr>
</tbody>
</table>

Fantech Recommends the Use of Insulated Flex Duct with Fantech Premium Bath Fans

**FLEX DUCT FRIENDLY**
Programmable Controls for Improved Home Ventilation

Ventech Controls by Fantech provide a cost-effective way to comply with code requirements for controlled ventilation in residential applications.

When used with Fantech single or dual inlet Premium Bath Fans or a Fantech centralized inline whole house fan, controls regulate fan speed and run time for intermittent or continuous ventilation.

Settings can be customized to provide the required amount of ventilation to fit the needs and lifestyle of the homeowners. The results ... improved comfort and better indoor air quality throughout the home.

**Controls & Accessories**

- VT20A: Auxiliary Control with 20 minute boost in Bath #2
- VT20M: Main Control with 20 minute boost in Master Bath

### FD60EM
**Electronic Timer Control**
- 10, 20, 30, 60 minute timer
- Decora style switch plate
- 115V/20A

### FLD60
**Fan Delay Timer**
- Set timer so fan continues to operate after light has been turned off

### SCD5
**Slide Speed Control**
- Decora style slide control with on/off
- 115V/5A

### RC
**Roof Caps**
- For 4, 6 or 8" round duct
- 4" duct (Aluminum)
- 6" or 8" duct (Galvanized Steel)
- Includes bird screen

### EUEV4
**Soffit Vent**
- For 4 - 5" round duct
- Plastic

### FY Series
**"Y" Duct Adapters**
- Five different models to choose from: 4x4x4", 6x6x6", 6x6x4", 6x5x4", 8x6x6".

### FIDT
**Insulated Flex Duct**
- Box of 25 feet
- Available in 4", 6" or 8" duct

### PBB14
**Replacement Bulbs**
- 14-watt compact fluorescent bulb for use in Fantech Premium Bath Fans

### PBB50
**Replacement Bulbs**
- 50-watt halogen bulb for use in Fantech Premium Bath Fans

**Fantech**

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