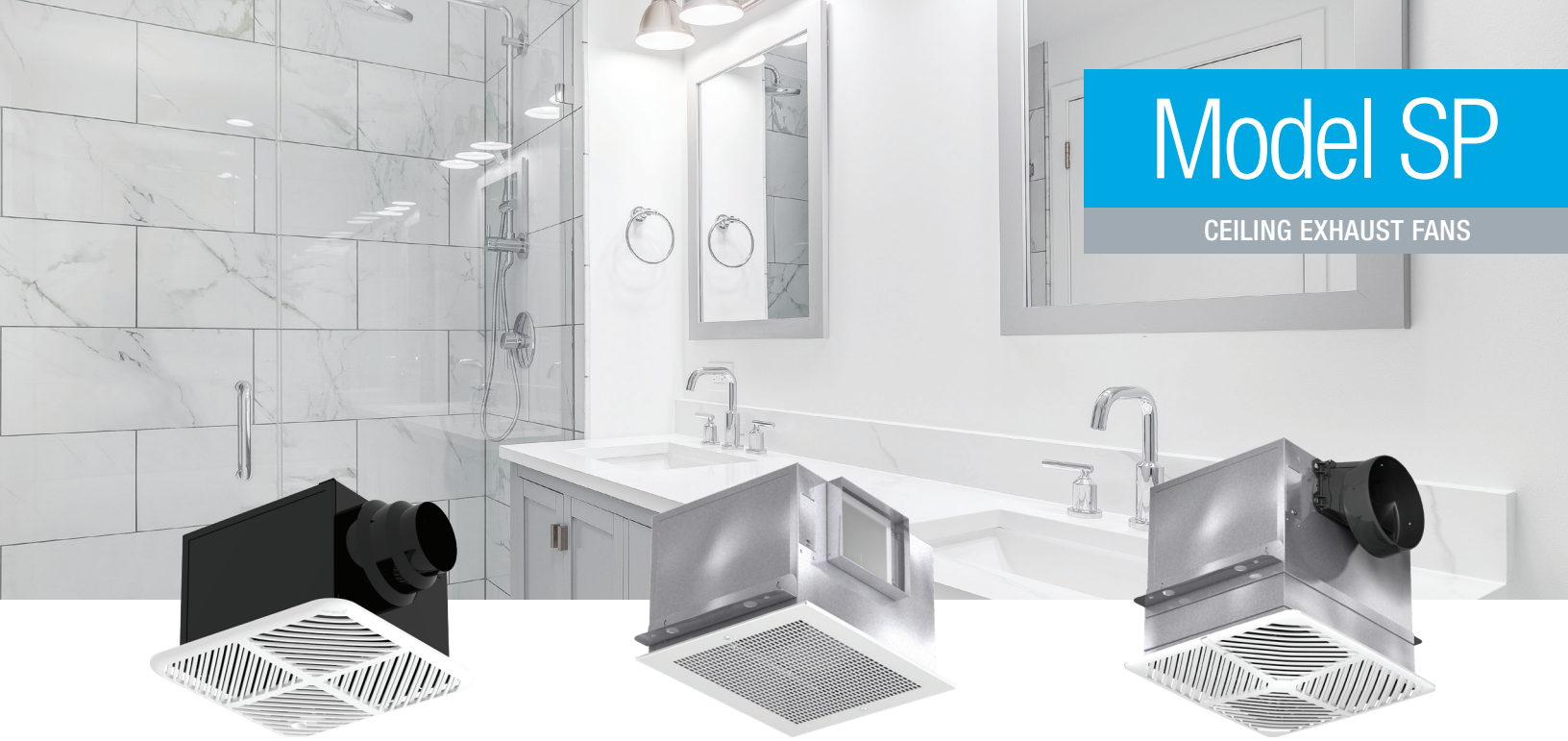


# Model SP

## CEILING EXHAUST FANS



### SP-AP

- Constant CFM EC motor
- 3 selectable high speeds (50-80-110 cfm)
- 2-speed capable with built-in time delay
- Plug-and-Play sensor modules
- Universal duct connector
- Lighted option available
- ENERGY STAR® certified



### SP-A-VG

- Constant torque EC motor
- Available on 390, 510, 700, 710 and 1050 SP-A models
- Designed for quiet performance
- Compatible with complete line of Vari-Green® controls



### SP-A

- Industry-leading low sound
- Air volume up to 1,600 cfm
- ENERGY STAR® models available

*Shown with optional ceiling radiation damper.*

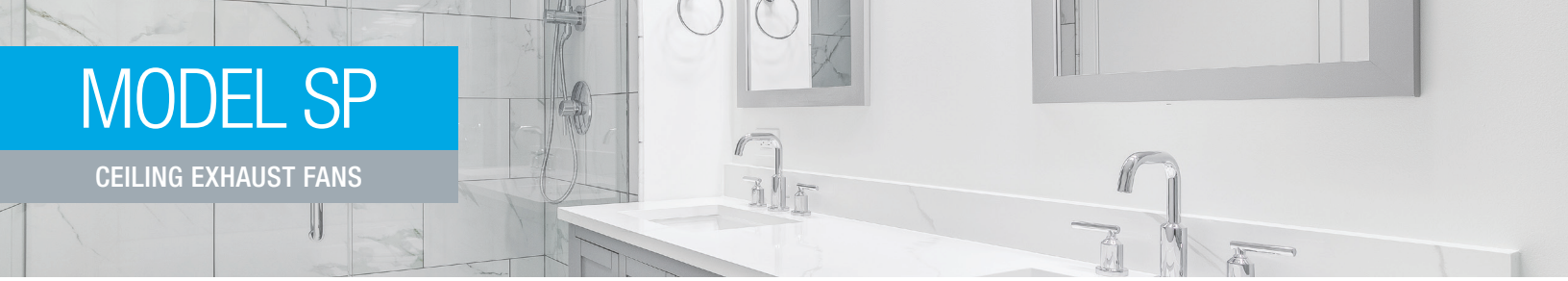
### SP-B

- Designed for quiet performance
- Air volume up to 200 cfm
- Contractor packs available
- ENERGY STAR® models available

### SP-LP

- Low profile, 3 1/2-inch housing depth
- Wall or ceiling mountable
- Humidity sensing and 2-speed capable models available
- Base and humidity sensing models include 3 selectable high speeds (50-80-110 cfm)
- 2-speed capable models include 80 or 100 cfm high speed selections
- Lighted option available
- ENERGY STAR® certified

GREENHECK®
Building Value in Air.



# MODEL SP

CEILING EXHAUST FANS

## GRILLE OPTIONS

### Models A70-A390 and B50-B200

**Standard:**
Available in white polystyrene finish, with optional motion, humidity or combination sensors. All optional sensors have time delay functionality as standard.

**Optional:**
Aluminum white enamel finish.

### Models A410-A1550

**Standard:**
Aluminum white enamel finish.

### Models SP-AP and SP-LP

**Standard:**
Available in white polystyrene finish.

**Optional:**
Lighted grille, available in white polystyrene finish, includes a 10W dimmable LED chip panel, 750 lumens, 3000K warm white color temperature, and Rated Life of 50,000 hours.

## PLUG-AND-PLAY ACCESSORIES

FOR NEW CONSTRUCTION OR RETROFITS

### SP-AP

$CO_2$ Sensor

Motion Sensor

Humidity Sensor

### SP-A/B

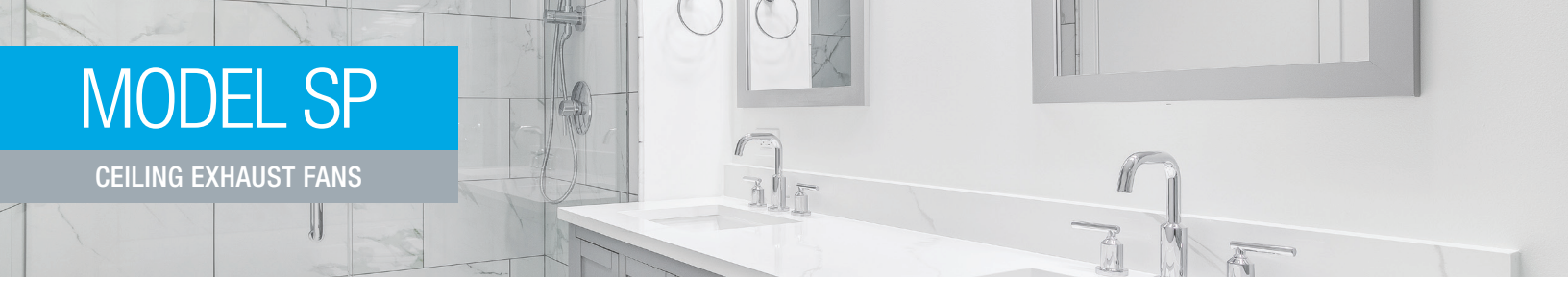

Humidity Sensor

Motion + Humidity Combination Sensor

Motion Sensor

GREENHECK

Building Value in Air.



# MODEL SP

CEILING EXHAUST FANS

## CODES AND STANDARDS

In accordance with ASHRAE 62.2 and 90.1, recent changes to IECC and the ENERGY STAR® Multifamily New Construction (MFNC) program have increased minimum ventilation rates. To meet code, mechanical exhaust and whole-unit ventilation performance must be measured, verified, and documented. The inability to meet the mandatory airflow rate can result in costly alterations to mechanical systems, fan capacities, and ductwork installations in your building.

Many Greenheck model SP fans comply with these codes and standards, helping ensure clean and healthy indoor air:

- ASHRAE 62.2
- IECC 2021
- CA Title 24
- ASHRAE 90.1
- CALGreen
- Washington State Energy Code

LEARN MORE AT energystar.gov

Fans that are ENERGY STAR® certified include: SP-A70, SP-A90, SP-A110, SP-A125, SP-A200, SP-A250, SP-B50, SP-B70, SP-B80, SP-B90, SP-B110ES, CSP-A110, CSP-A125, CSP-A200, CSP-A390-VG, SP-AP0511W-1, SP-AP0511WL-1, SP-LP0511-1, SP-LP0511H, SP-LP0511HL, SP-LP0810W, SP-LP0810WL

## WHAT FACTORS AFFECT AIRFLOW (CFM)?

A bathroom ceiling exhaust fan's ability to effectively move air depends on the amount of static pressure, or resistance, between the fan and its outdoor termination. Static pressure, measured in inches of water gauge (in. wg), is dependent upon three variables of the fan's installation:

1. The length, size, and type (rigid or flex) of the ductwork used
2. The amount and type of bends and turns in the ductwork
3. The type of vent or termination cap utilized

In a study conducted by Steven Winter Associates, Inc., a clear association was found between ductwork configurations and increased levels of static pressure. Figure 1 shows that while the ideal installation (A) resulted in a static pressure of 0.15 in. wg, the other installations more reflective of common scenarios (B-G) ranged from 0.30 to 0.45 in. wg.

| EXHAUST FAN CONFIGURATION | STATIC PRESSURE (in. wg) |
|---|---|
| A 8' Straight Flex (Ideal) | 0.15 |
| B 20' Straight Flex | 0.30 |
| C 90° Turn, Straight Flex | 0.35 |
| D 180° Turn, Straight Flex | 0.36 |
| E 16' Straight Loose Flex | 0.40 |
| F 90° Turn, Loose Flex | 0.38 |
| G 180° Turn, Loose Flex | 0.45 |

*Figure 1. Impact of Duct Configuration on Static Pressure (Source: Steven Winter Associates, Inc.)*

## CODE-COMPLIANT-VERIFIED SOLUTIONS

Greenheck ceiling exhaust fans have been designed, tested, and certified to perform at 0.40 in. wg, exceeding ENERGY STAR® requirements, and delivering the airflow needed in common installation scenarios to meet today's stringent codes and eliminate costly callbacks.

**Specify with Confidence. Specify Greenheck.**
Connect with your local mechanical representative to learn more.

P.O. Box 410 | Schofield, WI 54476 | 1.800.984.8713 opt 1 | November 2024 

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