

Centrifugal Ceiling and Cabinet Exhaust Fans Models SP and CSP



See ENERGY STAR® Models on Pages 16-17



BUILDING VALUE IN AIR.

June
2011

Models SP and CSP

Ceiling and Cabinet Exhaust Fans



| | | | |
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Greenheck Fan Corporation certifies that the SP models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. The SP models are not AMCA certified with 50 hertz motors.



Greenheck Fan Corporation certifies that the CSP models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. The CSP models are not AMCA certified with 50 hertz motors.



Models SP and CSP are listed electric fans (UL/cUL 507). Ceiling Exhaust Fans are also UL Listed for above bathtub/shower with GFCI branch protected circuit. File no. E33599.

Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.



Fans that are ENERGY STAR qualified include:
 SP-A-50, 70, 90, 200, 250, 290 and 410
 SP-B-50, 70, 80 and 90



Enjoy Greenheck's extraordinary service, before, during and after the sale.

Greenheck offers added value to our wide selection of top performing, energy-efficient products by providing several unique Greenheck service programs.

- Our Quick Delivery Program ensures shipment of our in-stock products within 24 hours of placing your order. Our Quick Build made-to-order products can be produced in 1-3-5-10- or 15-day production cycles, depending upon their complexity.
- Greenheck's free Computer Aided Product Selection program (CAPS), rated by many as the best in the industry, helps you conveniently and efficiently select the right products for the challenge at hand.
- Greenheck has been Green for a long time! Our energy-saving products and ongoing corporate commitment to sustainability can help you qualify for LEED credits.
- Our 3D service allows you to download at no charge lightweight, easy-to-use AutoDesk® Revit™ 3D drawings for many of our ventilation products.

Find out more about these special Greenheck services at greenheck.com

Models SP and CSP

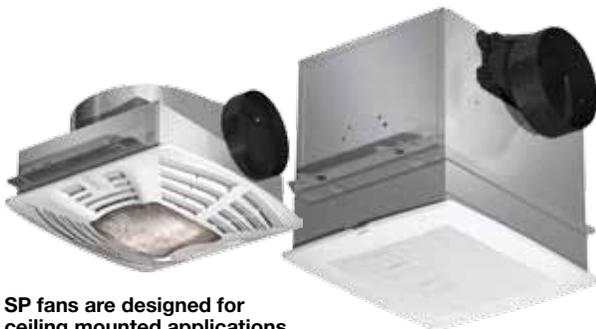
Ceiling and Cabinet Exhaust Fans

| Model Comparison | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|----------|--------|-----------|------------|---------|------|-----------------|---------|--------|------------|-------------|-------------------|------------------|-----------------|-----------------|--------------------|---------------------|-------------------------|------|---------------|-------------|-----------------|-------------|----------------------|---------------|----------------------------------|
| Model | Location | | Mounting | | | | | Airflow | | | | Application | | | | | | Drive Type | | Impeller Type | | | Performance | | Relative Cost | |
| | Outdoor | Indoor | Roof Curb | Base/Floor | Hanging | Wall | Ceiling Mounted | Exhaust | Supply | Reversible | Recirculate | General/Clean Air | Contaminated Air | Spark Resistant | Grease (UL 762) | Smoke Control (UL) | High Wind (150 mph) | High Temp (above 200°F) | Belt | Direct | Centrifugal | Propeller/Axial | Mixed Flow | Maximum Volume (cfm) | | Maximum Static Pressure (in. wg) |
| SP | | ✓ | | | | | ✓ | ✓ | | | | ✓ | | | | | | | | ✓ | ✓ | | | 1,600 | 1 | \$ |
| CSP | | ✓ | | | ✓ | | ✓ | ✓ | | | | ✓ | | | | | | | | ✓ | ✓ | | | 3,800 | 1 | \$ |

Great things come in small packages, as do our ceiling fan SP models and cabinet fan CSP models. Be assured when you buy any Greenheck product, you are getting a quality product at a competitive price. In fact, we guarantee our SP and CSP ceiling and cabinet exhaust fans with a three-year warranty. We offer the most comprehensive ceiling and cabinet exhaust fan line in the commercial market. We are your market leader!

Benefits

- Lowest sound in the industry
- Compact size
- Five different fan styles offering you a competitive price
- Broadest performance selections in the industry



SP fans are designed for ceiling mounted applications.

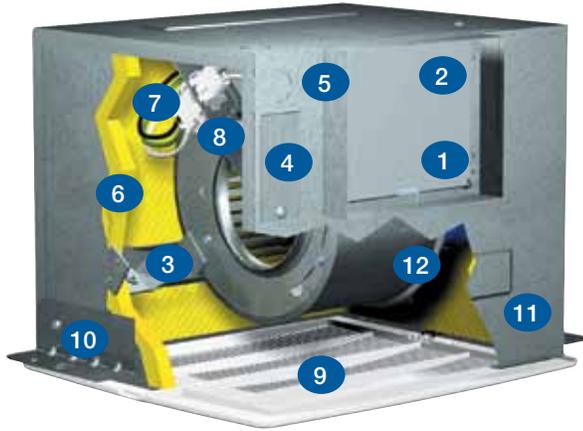


CSP fans are designed for inline mounted applications.

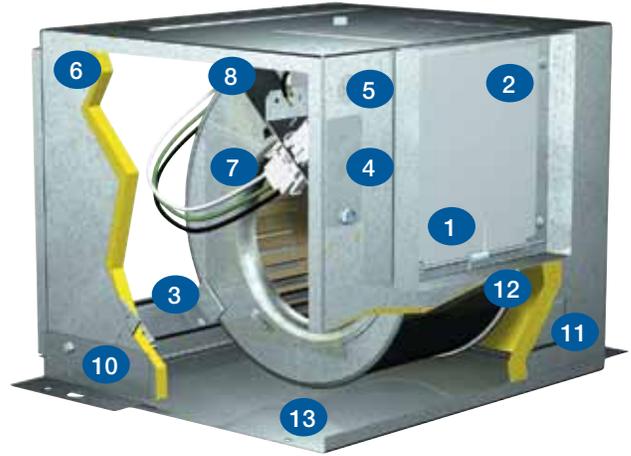
| Model | Description | Profile min. height | Sound min. sones | Air Volume (maximum) | UL Listing |
|--------------|---|--|------------------|-------------------------------------|--|
| Ceiling Fans | SP-A Premium Ceiling Fan: Best choice to meet sound requirements. | 9 inches (229 mm) | 0.5 | 1,600 cfm (2718 m ³ /hr) | UL/cUL Listed for above bathtub/shower with GFCI branch protected circuit (Sizes A390 and smaller) |
| | SP-B Deluxe Ceiling Fan: Compact to fit most applications with quiet operation. | 7 inches (178 mm) | 1.2 | 200 cfm (340 m ³ /hr) | UL/cUL Listed for above bathtub/shower with GFCI branch protected circuit |
| | SP-C Economy Ceiling Fan: Designed for light commercial applications. | 3 ⁵ / ₈ inches (86 mm) | 3.0 | 50 cfm (85 m ³ /hr) | UL Listed |
| Inline Fans | CSP-A Premium Inline Fan: Outperforms the competition and is preferred by specifying engineers. | 9 inches (229 mm) | 0.8 | 3,775 cfm (6414 m ³ /hr) | UL/cUL Listed |
| | CSP-B Deluxe Inline Fan: Compact design to fit in small remote spaces. | 7 inches (178 mm) | 1.5 | 185 cfm (314 m ³ /hr) | UL/cUL Listed |

Standard Construction Features

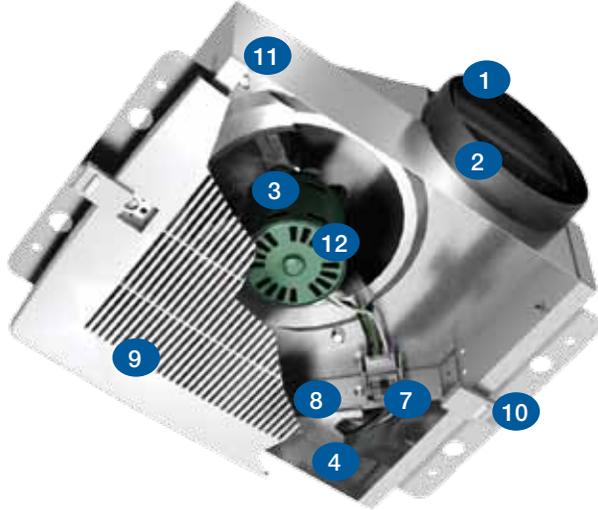
Model SP-A



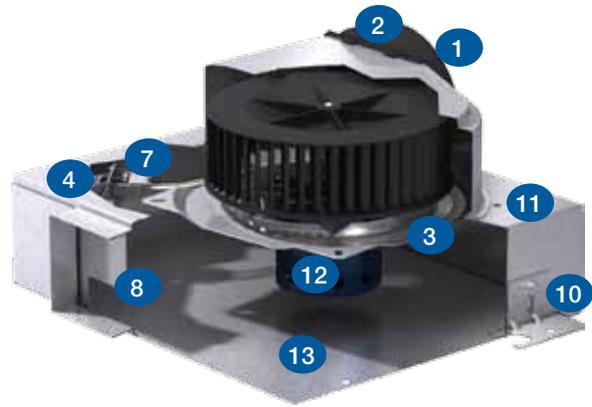
Model CSP-A



Model SP-B



Model CSP-B



Model SP-C



| Number and Description | | | Specific Features for Each Model | | | | |
|------------------------|--|---|----------------------------------|--------|---------------------|----------|--------|
| | | | SP-A | SP-B | SP-C | CSP-A | CSP-B |
| 1 | Backdraft Damper | Durable plastic or aluminum to eliminate rattling and backdrafts | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 | Outlet | Round - For quick and easy connections | 50-90 | 50-200 | 50 | | 50-200 |
| | | Square - For quick and easy connections | 110-1550 | | | 110-3600 | |
| 3 | Power Assembly | Removes quickly for maintenance | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | Includes conversion from horizontal to vertical discharge | ✓ | | | ✓ | |
| 4 | Electrical Access | Vertical electrical access to eliminate drilling holes | ✓ | ✓ | | ✓ | ✓ |
| | | External electrical access to eliminate removing motor pack, saving installation time | ✓ | | | ✓ | |
| 5 | Electrical Knockouts | Eliminates drilling holes (horizontal or vertical) | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 | Acoustic Insulation | Absorbs sound | ✓ | | | ✓ | |
| 7 | Disconnect | Servicing is quick and safe | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 | Electrical Junction Box | Large for easy wiring | ✓ | ✓ | | ✓ | ✓ |
| 9 | Grille | Concealed attachment screws securely fasten grille to housing for quiet, rattle free operation | ✓ | ✓ | ✓ | | |
| 10 | Mounting Brackets | Adjustable for multiple installation conditions | ✓ | ✓ | ✓ | ✓ | ✓ |
| 11 | Housing | Embossed galvanized steel for rigidity | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | A low profile for height restricted areas | | ✓ | ✓ | | ✓ |
| 12 | Motors | Motors are compatible for use with speed controls and have thermal overload protection Domestic & International • 50 cycle, 220v or 240v • 60 cycle, 115v, 208v, 220v, 230v, & 277v options (See CAPS for availability) | ✓ | ✓ | 60 cycle, 115v only | ✓ | ✓ |
| 13 | Access Panel | Gain easy access to internal components once installed | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Exclusive Electrical Wiring Feature | Electrical access cover located on the housing exterior. This feature permits external wiring without removing the power assembly, saving installation time and cost. Available on models SP-A and CSP-A. | | | | | |
| | Double-Wide Fans | Available for applications requiring 700 cfm or greater. Double-wide fans have two double-width forward-curved wheels, which are housed in separate scrolls, and driven by a single motor. Available on models SP-A and CSP-A. | | | | | |
| | Vertical Discharge | Exhaust outlet duct installed in the optional vertical position. The power assembly must be rotated to match the duct adapter position. Available on models SP-A and CSP-A. | | | | | |

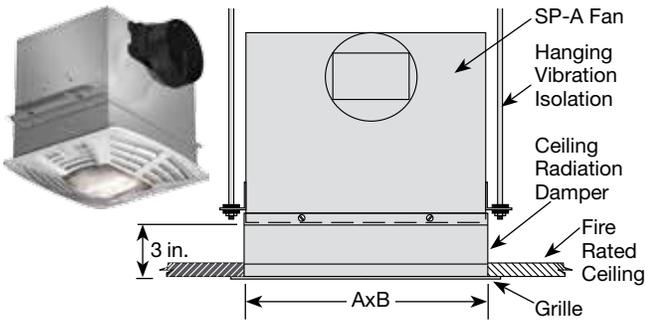


Ceiling Radiation Damper

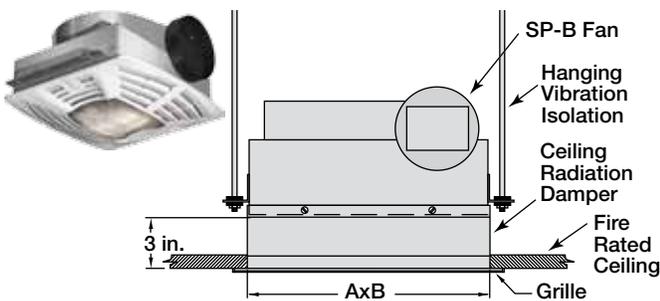
The National Fire Protection Association (NFPA) Standard 90A requires openings in fire rated ceiling assemblies to be protected by appropriately rated ceiling radiation dampers. As a result, many local codes require fans installed in fire rated ceilings to be protected by dampers which are insulated against both heat and flame.

UL Classified ceiling radiation dampers are rated at three to four hours of fire resistance. All model SP fans and fan/light combinations are available with ceiling radiation dampers. This design saves space by allowing the damper to mount directly beneath the fan.

Model SP-A



Model SP-B



| SP Model | CRD | Length (A) | Width (B) | Height |
|----------------------------|-----|--|---|-----------|
| A50 - A190 | 310 | 13½ (343) | 11⅞ (283) | 3 (76) |
| B50 - B200 A200 - A390 | 320 | 14¾ (365) | 12¼ (311) | 3 (76) |
| A410 - A510 A710 - A780 | 350 | 18 ⁷ / ₁₆ (468) | 14 ¹⁵ / ₁₆ (379) | 3 (76) |
| A700 | 700 | 24 ³ / ₁₆ (614) | 12¼ (311) | 3 (76) |
| A900 - A1550 | 360 | 24 ³ / ₁₆ (614) | 14 ¹⁵ / ₁₆ (379) | 3 (76) |

All dimensions shown in inches (millimeters). Add an "L" to all CRD models if fan & light combo is used. *CRD is approximately 1/4 inch (6 mm) larger than housing dimension. (See Installation, Operation and Maintenance Manual)

Contractor 4 Packs

Save installation time and labor by installing the housing first, then installing the internal components after the sheetrocking, plastering and finishing is done. Housings are packaged in one box, power assemblies and grilles are packaged in another box. Components are shipped to coincide with the phase of your project. (Model SP-B only).



Wheel Options

Greenheck's ceiling and cabinet fans (models SP and CSP) deliver high performance from a forward-curved wheel. The forward-curved wheel design offers both high-efficiency and low sound. Fan wheels are constructed of polypropylene or steel as standard, and all models offer an aluminum wheel option.

- Level A models utilize steel or polypropylene wheel construction depending on size.
- Level B models are standard with a polypropylene wheel.

Polypropylene



Steel



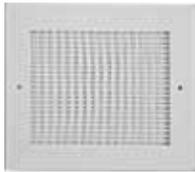
Aluminum



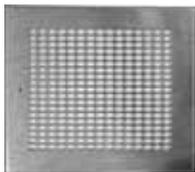
Grille Options



Designer - standard grille
Available in white polystyrene finish, with or without motion detector or time delay (see page 9 for motion detector and time delay information). Standard on SP models A50-A390 and B50-B200.



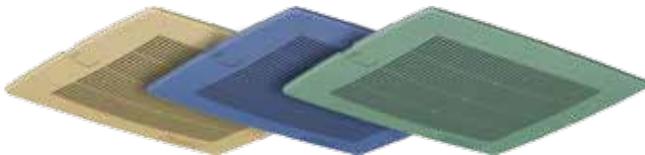
Aluminum - grille option
White enamel finish. Available for models A50-A390 and B50-B200. For models A410-A1550, only the aluminum grille is available.



Stainless Steel - grille option
Polished stainless steel finish. Available for models A50-A1550 and B50-B200.



Decorative - grille option
White plastic finish, with or without light, motion detector or time delay (see page 9 for motion detector and time delay information). Available for models A50-A390 and B50-B200.



Customized grille options

Molded polystyrene available in an array of colors. Includes all the same accessory options as the standard grilles. For more information on the many ways this grille option can be used please contact your Greenheck representative.

Customized Grille Lens

Lenses can be customized with formed shapes or logos. Contact your Greenheck representative for details.



Lighted Grille Options

Greenheck's fan and light combinations include either a prismatic or a frosted lens and either compact fluorescent or incandescent lamps. Our unique light box is manufactured with a reflective material to increase the light given off by either type of lamp. *UL Listed for above bathtub and showers with GFCI branch protected circuit.*

Model SP-A, sizes 50 - 390

Model SP-B, sizes 50 - 200



Prismatic Lens

The prismatic lens design provides approximately 25% more light than a traditional frosted lens. The lens may be easily removed to replace light bulbs.



Frosted Lens

The frosted lens option is a traditional design which lets approximately 80% of light through the lens. The lens may be easily removed to replace light bulbs.



Incandescent Lamps

One bulb provides up to 100 watts of light (bulbs provided by others).

- Dimmable
- Reflective light box

Compact Fluorescent Lamps (CFL)

Features and Benefits

- GU24 Base
- Long Life, 10,000 hour average rated life
- Lower maintenance and labor costs for lamp replacements
- No lead glass - Better lumen maintenance over life of bulb
- End-of-Life logic guards against violent failures
- Complies with UL 1993 End-of-Life requirements
- World Class phosphor insures high lumen output and excellent lumen maintenance
- Replacement bulbs can be found wherever standard light bulbs and fixtures are sold. Energy efficient ENERGY STAR® qualified fixtures.
- California Energy Title 24 compliant



Speed Controls

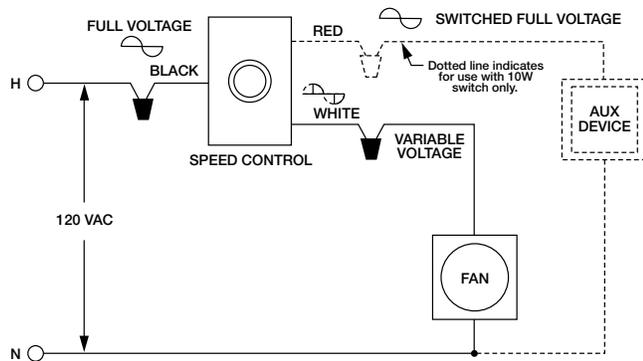
Speed controls may be used on model SP and CSP fans for manual adjustment of the fan's performance (for final system balancing) or to control the fan's output in confined spaces, such as conference or meeting rooms.



The fan can be adjusted to 60% of design airflow with a speed control. This reduction in airflow and fan speed is also accompanied by a reduction in noise level. Solid state speed controls are available for a range of applications up to 15 amps. Speed controls can be used to operate more than one fan if the combined total amperage of the fans do not exceed the control rating.



Internal Mounting



For use with shaded pole and permanent split capacitor (PSC) motors. Available shipped loose or mounted internal or external.

Switches

Switches may be used on model SP and CSP fans to enable manual control of your fan or fan and light combination. There are several options to fit your application.



NEMA 1 - Single pole rocker switch assembly.

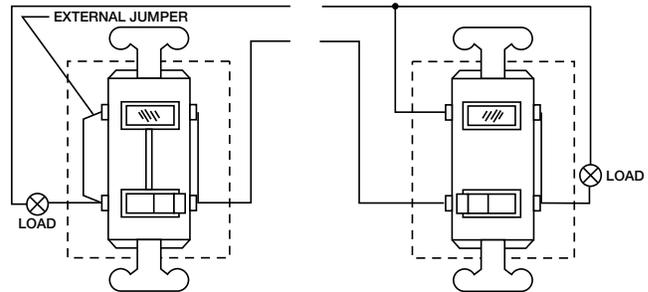
- Rated for, 115v, 15 Amp, 1/2 hp
- UL Listed

Model MS-16 - Single pole rocker switch assembly with cover and pilot light.

- Rated for, 115v, 15 Amp, 1/2 hp
- UL Listed

NEMA 1 - Two pole rocker switch assembly.

- Rated for, 220/230/240/277v, 20 Amp, 2 hp
- UL Listed
- Requires a 2x4 handy box.



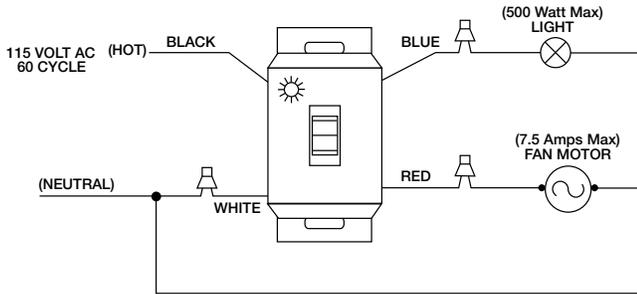
SPEED CONTROL INTERNAL AND/OR EXTERNAL MOUNTING OPTIONS

| Model Voltage Rating Amp Rating | Fan Sizes | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|---|-----|-----|-----|-----|-----|------|------|------|------|------|------|----|
| | 50 | 70 | 80 | 90 | 110 | 125 | 150 | 190 | 200 | 250 | 290 | 390 | 410 | 510 | 700 | 710 | 780 | 900 | 1050 | 1410 | 1550 | 1750 | 2150 | 3600 | |
| 5WSSC 115 - 127v 5 Amp | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | I/E | No | No | No | No | No | No |
| 10WSSC 115 - 127v 10 Amp | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | No |
| 15WSSC 115 - 127v 15 Amp | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | E | No |
| 5W240 220 - 240v 5 Amp | No | No | No | *I/E | I/E | No | I/E | I/E | *I/E | No | I/E | I/E | No | I/E | No | No | I/E | No | I/E | No | I/E | No | No | No | No |
| 8WSSC 220 - 240v 8 Amp | No | No | No | *E | E | No | E | E | *E | No | E | E | No | E | No | No | E | No | E | No | E | No | No | No | No |
| 5W277 227v 5 Amp | No | No | No | No | I/E | I/E | I/E | I/E | *I/E | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No | No |
| KEY: | E = External mounted only | | | | | | | | | | | | I/E = Available Internal and External Mounted | | | | | | | | | | | | |
| | * Only available on the B-series (A-series is not available) | | | | | | | | | | | | No = Not available | | | | | | | | | | | | |

NOTES: Speed controllers are not available for 208v applications. SP-C50 Speed Controller is shipped loose only. All speed controller options listed in table are UL Listed. Handy Box sizes are 2x4 for all options above except 10WSSC and 15WSSC, which are 4x4.

Time Delay Switch

Time delay switches save energy by automatically turning off equipment. They may be used with SP and CSP fans or fan and light combinations for extended operating time of fan. Time delay switches act in the same manner as a standard switch, however, there is a delay of 1 to 60 minutes after it has been turned off.



Model GTD -

A single switch controls both fan and light. Available shipped loose.

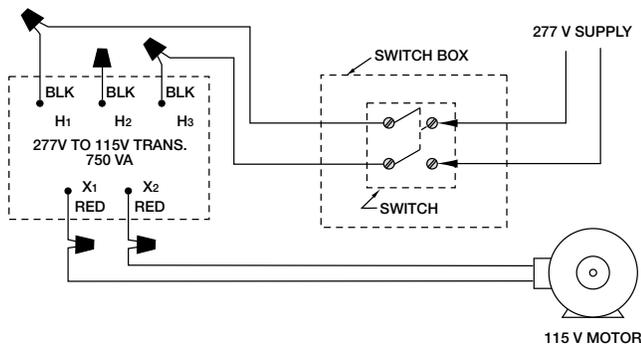
- Silent Operation
- Rated for 115v
- UL Listed
- Requires 2x4 handy box



Transformers

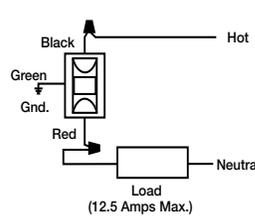
Transformers are available for applications requiring voltage reduction. Selection is based on motor amperage. All transformers are shipped loose.

| Models | Voltage Ratings | Amp Ratings |
|--------|-----------------|-------------|
| T-2.0 | 230/277v to 115 | 2.0 Amps |
| T-4.3 | 230/277v to 115 | 4.3 Amps |
| T-6.5 | 230/277v to 115 | 6.5 Amps |
| T-8.6 | 230/277v to 115 | 8.6 Amps |

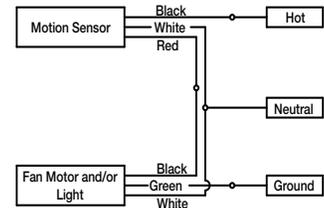


Motion Detectors

Motion detectors may be used with SP and CSP fans or fan and light combinations. Motion detectors use a passive infrared motion detector to automatically turn the fan on when a change in motion is sensed. They have a viewing area of 180 degrees, however they must be placed in the line-of-sight. They also have an adjustable time delay shutoff setting of 1 to 20 minutes.



Wall Mount



Grille Mount

Grille Motion Detectors are available on models up through size SP-A390 and SP-B200.

- Rated for 115v
- UL Listed

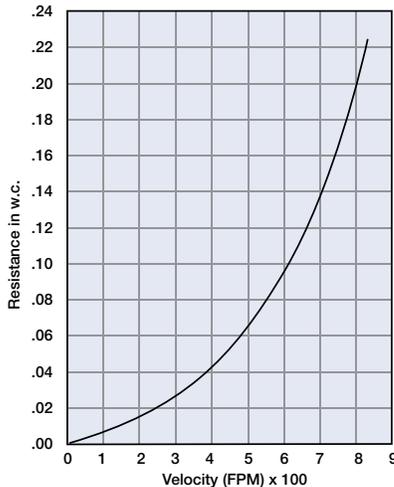
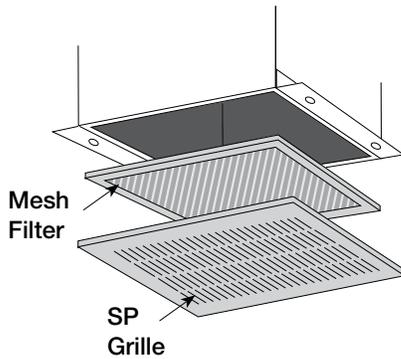
Model MDW

For use on fan or lights. Available shipped loose.

- Rated for 115v
- UL Listed
- Requires 2x4 handy box

Filters

Fans used in most applications will collect airborne dirt on wheels and motors over time, even where air is not excessively dirty. Accumulations of dirt on the fan wheel will sharply reduce performance and cause imbalance. Dirt buildup on the motor can cause it to overheat. All of these conditions will shorten the life of the fan. To help reduce this accumulation, washable aluminum mesh filters are available to trap dirt before it enters the fan. These filters should be regularly cleaned to maintain performance. The Filter Loss Chart shows the effect the filter will have on performance. To determine the added resistance, divide the desired cfm by the filter area (ft²). This will give FPM. Use this with the filter loss chart to get the added resistance. Filters reduce sound levels, in addition to reducing dirt accumulations on the motor and wheel.



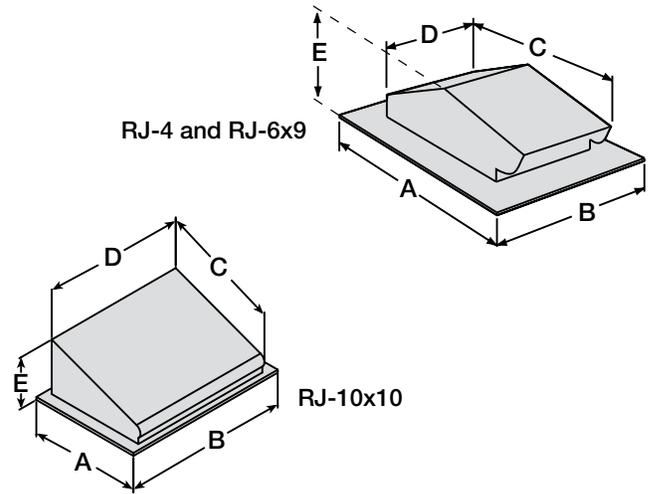
| SP Model | Filter Model | | Filter Area (ft ²) |
|----------------------------------|-----------------|---------------|--------------------------------|
| | Designer Grille | *Metal Grille | |
| SP-A50 - A190 | F-200 | F-210 | 0.739 |
| SP-B50 - B200, A200 - A390 | F-200 | F-220 | 0.911 |
| SP-A410 - A510 SP-A710 - A780 | NA | F-250 | 1.518 |
| SP-A900 - A155 | NA | F-260 | 2.078 |

*Aluminium or Stainless Steel Grille.

Roof Discharge Accessories

Model RJ - Pitched Roof Cap

- Steel construction with black enamel finish
- Integral flashing flange
- Built-in birdscreen and damper

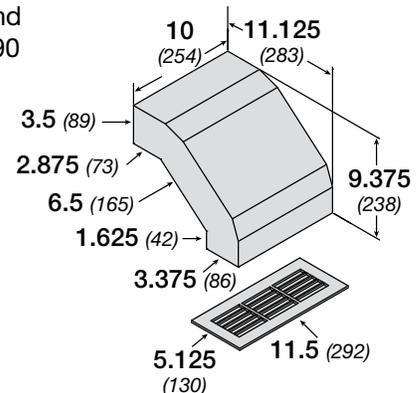


| Model | Use for sizes: | A | B | C | D | E | Throat |
|----------|-----------------------|---|---|---|---|--|------------------------|
| RJ-4 | C50, B50-B80 | 11 (279) | 9 ¹ / ₄ (235) | 8 ¹ / ₄ (210) | 5 ⁵ / ₁₆ (135) | 4 ¹ / ₂ (114) | 4 (102) diameter |
| RJ-6x9 | B90-B200, A50-A390 | 18 ³ / ₄ (476) | 14 ¹ / ₄ (362) | 14 ¹ / ₂ (368) | 10 ⁵ / ₈ (264) | 6 ¹ / ₂ (165) | 6 x 9 (152 x 229) |
| RJ-10x10 | A410-A1050 | 18 ¹ / ₂ (470) | 27 ¹ / ₂ (699) | 15 ³ / ₄ (400) | 23 ³ / ₈ (600) | 9 ¹ / ₂ (241) | 10 x 10 (254 x 254) |

All dimensions shown in inches (millimeters).

Model EL-10x3 - Elbow Discharge with Grille

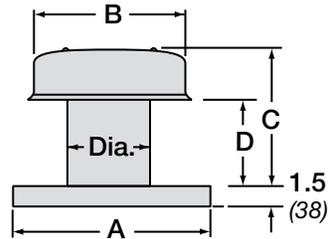
- Designed for installation under roof eaves
- Black epoxy finish
- Built-in damper
- For model SP and CSP sizes 50-290



All dimensions shown in inches (millimeters).

Model RCC-7 - Curb Cap

- Weathertight aluminum construction
- Integral birdscreen
- Built-in curb cap
- Requires roof curb

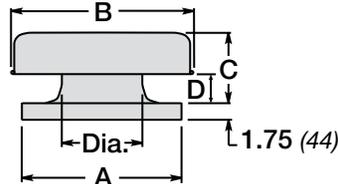


| Model | For all sizes: | A | B | C | D | Throat Dia. |
|-------|----------------|----------|----------|----------|-------------------------------------|-------------|
| RCC-7 | 50-390 | 15 (381) | 12 (305) | 10 (254) | 6 ³ / ₈ (162) | 7 (178) |

All dimensions shown in inches (millimeters).

Model GRS - Curb Cap

- All aluminum exterior construction
- Galvanized steel internal supports
- Integral birdscreen
- Built-in curb cap
- Requires roof curb

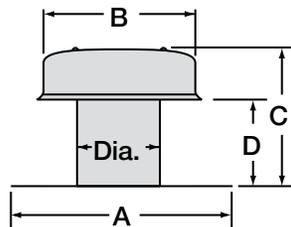


| Model | For all sizes: | A | B | C | D | Throat Dia. |
|--------|----------------|----------|--------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------|
| GRS-10 | 410-710 | 19 (483) | 20 ¹ / ₂ (521) | 7 ³ / ₄ (197) | 2 (51) | 10 ¹ / ₄ (260) |
| GRS-12 | 780-1050 | 22 (559) | 29 (737) | 10 (254) | 3 ¹ / ₂ (89) | 12 ¹ / ₄ (311) |
| GRS-16 | 1410-2150 | 26 (660) | 29 (737) | 11 (279) | 4 ¹ / ₄ (108) | 16 ⁵ / ₁₆ (414) |
| GRS-20 | 3600 | 30 (762) | 35 ¹ / ₂ (902) | 11 ¹ / ₄ (286) | 3 ³ / ₄ (95) | 20 ⁹ / ₁₆ (516) |

All dimensions shown in inches (millimeters).

Model RFC-7 - Flashing Flange

- Weathertight aluminum construction
- Integral birdscreen
- Built-in flashing flange

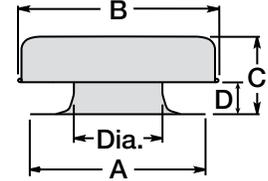


| Model | For all sizes: | A | B | C | D | Throat Dia. |
|-------|----------------|----------|----------|----------|-------------------------------------|-------------|
| RFC-7 | 50-390 | 18 (457) | 12 (305) | 10 (254) | 6 ³ / ₈ (162) | 7 (178) |

All dimensions shown in inches (millimeters).

Model GRSF - Flashing Flange

- All aluminum exterior construction
- Galvanized steel internal supports
- Integral birdscreen
- Built-in flashing flange

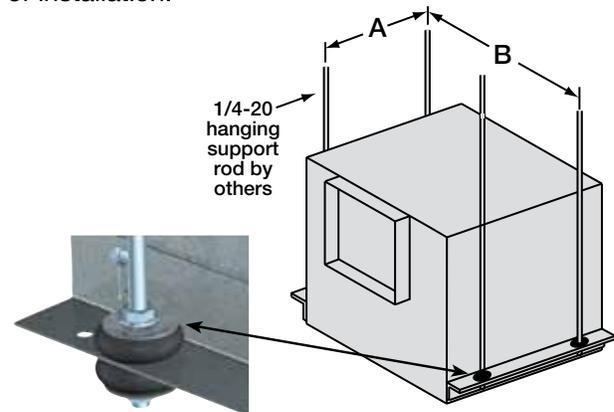


| Model | For all sizes: | A | B | C | D | Throat Dia. |
|---------|----------------|----------|--------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------|
| GRSF-10 | 410-710 | 23 (584) | 20 ¹ / ₂ (521) | 7 ³ / ₄ (197) | 2 (51) | 10 ¹ / ₄ (260) |
| GRSF-12 | 780-1050 | 26 (660) | 29 (737) | 10 (254) | 3 ¹ / ₂ (89) | 12 ¹ / ₄ (311) |
| GRSF-16 | 1410-2150 | 30 (762) | 29 (737) | 11 (279) | 4 ¹ / ₄ (108) | 16 ⁵ / ₁₆ (414) |
| GRSF-20 | 3600 | 34 (864) | 35 ¹ / ₂ (902) | 11 ¹ / ₄ (286) | 3 ³ / ₄ (95) | 20 ⁹ / ₁₆ (516) |

All dimensions shown in inches (millimeters).

Hanging Vibration Isolators

Vibration isolator kits are available for suspended installations. Kits include all hardware necessary to mount one unit, with the exception of 1/4-20 threaded rod to be supplied by others. Fan mounting brackets include prepunched mounting holes for ease of installation.

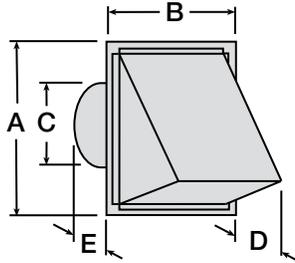


| Unit Size | A | B |
|-------------------------|-------------------------------------|---------------------------------------|
| B50-B200 | 4 ¹ / ₂ (114) | 15 ⁵ / ₈ (397) |
| A50-A190 | 5 ¹ / ₂ (140) | 14 ⁵ / ₈ (371) |
| A200-A390 | 6 ³ / ₄ (171) | 15 ¹ / ₂ (394) |
| A410, A510, A710, A780 | 9 ¹ / ₄ (235) | 19 ⁹ / ₈ (498) |
| A700 | 5 ¹ / ₂ (140) | 25 ¹ / ₈ (638) |
| A900-A1050, A1410-A1550 | 9 ¹ / ₄ (235) | 25 ³ / ₈ (645) |
| A1750, A2150 | 9 ¹ / ₄ (235) | 36 ³ / ₄ (933) |
| A3600 | 9 ¹ / ₄ (235) | 48 ⁵ / ₈ (1235) |

All dimensions shown in inches (millimeters).

Model WC (Round Connection) - Hooded Wall Cap

- Aluminum construction - aluminum finish
- For outside wall applications
- Built-in birdscreen (not available on WC-4) and damper

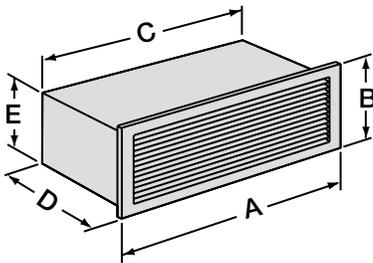


| Model | Use with sizes: | A | B | C | D | E |
|-------|-----------------------|-------------|-------------|------------|-------------|------------|
| WC-4 | C50 | 6½ (165) | 6 (152) | 4 (102) | 2¾ (70) | 5 (127) |
| WC-6 | B50-B200, A50-A190 | 8 (203) | 8 (203) | 6 (152) | 4⅛ (105) | 5 (127) |
| WC-8 | A200-A510 | 11 (279) | 11 (279) | 8 (203) | 5⅛ (130) | 3½ (89) |

All dimensions shown in inches (millimeters).

Model WL - Wall Louvred Discharge

- Anodized aluminum grille
- Built-in damper
- Not recommended for exterior applications exposed to severe weather conditions. An external wall louver is recommended for such applications.

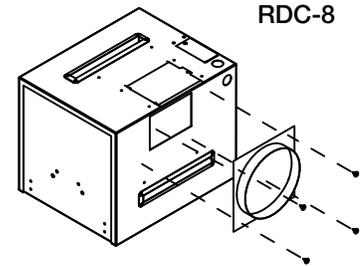


| Model | Use with all sizes: | A | B | C | D | E |
|---------|---------------------|--------------|-------------|-------------|-------------|------------|
| WL-10x3 | 50-290 | 12 (305) | 5¼ (133) | 10 (254) | 7¾ (197) | 3½ (89) |
| WL-18x6 | 390-1550 | 19¾ (502) | 8 (203) | 18 (457) | 9 (229) | 6 (152) |

All dimensions shown in inches (millimeters).

Model RDC - Round Duct Connector

- Replaces the standard square discharge duct-connector and damper
- Uses existing mounting holes
- RDC-6 includes a damper (polypropylene construction)
- RDC-8 does not include a damper (galvanized construction)

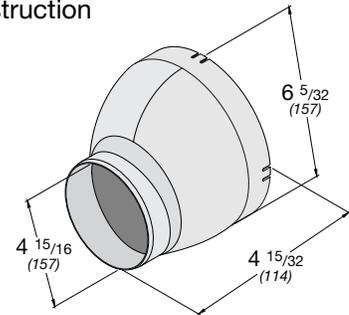


| Model | Use with sizes: | Diameter |
|-------|-----------------|----------|
| RDC-6 | A110-A190 | 6 (152) |
| RDC-8 | A200-A510 | 8 (203) |

All dimensions shown in inches (millimeters).

6x4 - Transition Duct Reducer

- Reduces duct from 6 to 4 inches.
- Durable plastic construction



| Model | For use with sizes: |
|--------|---------------------|
| 473324 | B50-B200 |
| | A50-A90 |
| | A110-A190* |

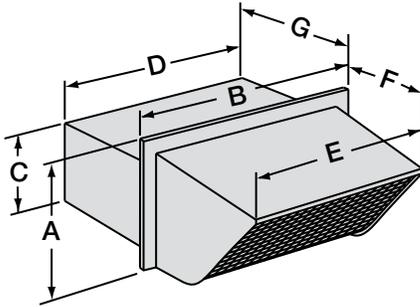
All dimensions shown in inches (millimeters).

* Used in conjunction with RDC-6

Wall Discharge Accessories

Model WC - Hooded Wall Cap (Square or Rectangular Connections)

- Steel construction with black enamel finish
- For outside wall applications
- Built-in birdscreen and damper

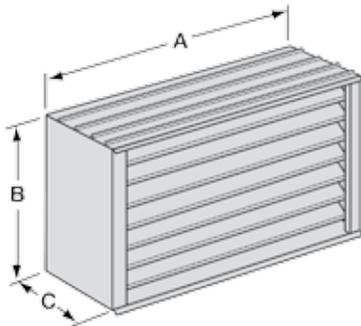


| Model | Use with all sizes: | A | B | C | D | E | F | G |
|---------|---------------------|--------------|--------------|-------------|--------------|--------------|-------------|------------|
| WC-10x3 | 50-290 | 5½ (140) | 12¾ (324) | 3½ (89) | 10¼ (260) | 11½ (283) | 4¼ (108) | 5 (127) |
| WC-8x8 | 200-510 | 10¼ (260) | 10¼ (260) | 8¼ (210) | 8¼ (210) | 8¼ (210) | 6¾ (171) | 5 (127) |
| WC-18x8 | 700-1550 | 10¼ (260) | 20¼ (514) | 8¼ (210) | 18¼ (464) | 18¼ (464) | 6¾ (171) | 5 (127) |

All dimensions shown in inches (millimeters).

Model BVE - Brick Vent

- Designed for installation in masonry walls
- Anodized aluminum construction
- Built-in aluminum mesh insect screen

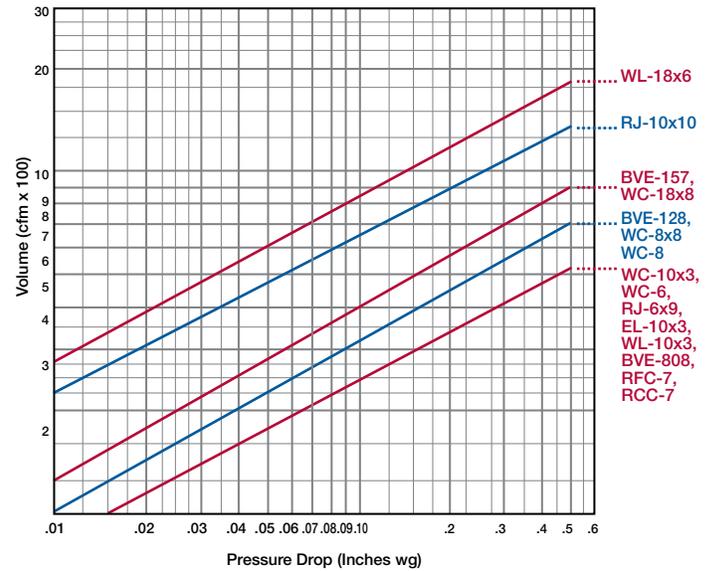


| Model | Use with all sizes: | A | B | C |
|--------|---------------------|--------------|-------------|------------|
| BVE808 | 50-290 | 8⅞ (206) | 7¾ (197) | 4 (102) |
| BVE128 | 390-510 | 12 (305) | 7¾ (197) | 4 (102) |
| BVE157 | 700-1050 | 15⅝ (397) | 7¾ (197) | 4 (102) |

All dimensions shown in inches (millimeters).

Accessory Pressure Drops

The chart below can be used with all of the discharge accessories shown on these two pages. Specific pressure drop values for these accessories must be included in total system calculations for proper fan selection.



Above accessories tested with 4 feet of inlet duct

Things to know when sound is critical

Sound Data

The sound data shown in this catalog has been presented to aid the system designer in selecting a fan which will meet the desired sound criteria. Some levels have been included on the performance pages to provide a means of quickly evaluating the relative loudness of a fan selection.

What is a sone?

Sones are an internationally recognized unit of loudness. In practical terms, the loudness of one sone is equivalent to the sound of a quiet refrigerator measured from five feet away in an acoustically average room. A sone is a single number rating, which indicates the inlet noise derived from the eight audible octave bands. Sones are a linear measurement of sound level. For example, a sound level of 10 sones is twice as loud as 5 sones.

Can radiated noise increase the sound levels?

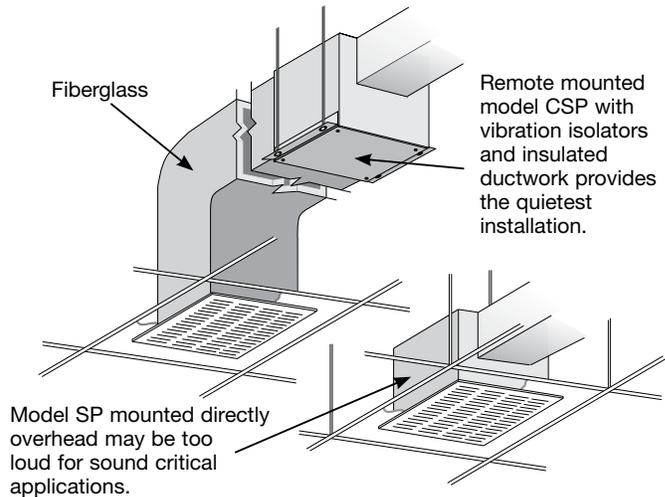
Radiated noise from fan housings can cause unacceptable sound levels, on any brand of fan. The size of these fans allows them to be placed in areas where this noise will be transmitted to the conditioned space through walls or ceilings. Where possible, cabinet fans should be located in remote parts of the ventilation system.

When should a SP or CSP fan be used?

Model SP and CSP fans are designed for the lowest possible sound levels. Forward-curved wheels,

insulated housings and vibration isolators between the motor and housing contribute to quiet, efficient operation. Applied and installed as recommended, SP and CSP sound levels will fall well within the ranges shown in the Suggested Limits for Room Loudness chart. For applications where sound levels are critical, a remote mounted CSP with ductboard is recommended. Placement of SP and CSP fans should take into account the desired sound level at the location of the listener.

The compact size of the SP and CSP fans provides the system designer greater flexibility in locating these fans for lowest sound levels. In critical sound areas, insulated ductwork, flexible duct connections, or placing the fan in a remote section of the ductwork (away from the critical area) offers the best means of meeting desired sound levels.



| Suggested Limits for Room Loudness | | |
|------------------------------------|-------|---|
| Sones | DBA | |
| 1.3-4 | 32-48 | Private homes (rural and suburban) |
| 1.7-5 | 36-51 | Conference rooms |
| 2-6 | 38-54 | Hotel rooms, libraries, movie theatres, executive offices |
| 2.5-8 | 41-58 | Schools and classrooms, hospital wards and operating rooms |
| 3-9 | 44-60 | Court rooms, museums, apartment houses, private homes (urban) |
| 4-2 | 48-64 | Restaurants, lobbies, general open offices, banks |
| 5-15 | 51-67 | Corridors and halls, cocktail lounges, washrooms and toilets |
| 7-21 | 56-72 | Hotel kitchens and laundries, supermarkets |

Reprinted from AMCA Publication 302 (Application of Sone Ratings for Non-ducted Air Moving Devices, with room—sone—dBA correlations) with the written permission from the AMCA International, Inc., 30 West University Drive, Arlington Heights, IL 60004-1893.

NOTE: Values above are for room loudness and are not sound ratings. Room loudness is the resulting level in a conditioned space after the acoustical qualities of the room have been accounted for.

When room sound levels are critical, such as in executive offices, conference rooms, hospital operating rooms, and school study areas, a CSP fan is the best choice. Shown here is a comparison of SP and CSP fans of the same size, with equal performance in typical installations. The CSP shows lower sone values.

| Model | CFM | WG | FRPM | Sones |
|----------|-----|-----|------|-------|
| SP-A410 | 405 | 1/8 | 1000 | 3.0 |
| CSP-A410 | 403 | 1/8 | 1000 | 1.5 |

*Sone value with insulated inlet duct.

What is ENERGY STAR®?

ENERGY STAR® is the trusted, government-backed symbol for energy efficiency helping us all save money and protect the environment through energy-efficient products and practices.

The ENERGY STAR® label was established to:

- Reduce greenhouse gas emissions and other pollutants caused by the inefficient use of energy; and
- Make it easy for consumers to identify and purchase energy-efficient products that offer savings on energy bills without sacrificing performance, features, and comfort.

For a ventilation fan to achieve ENERGY STAR® approval it must meet strict efficiency standards for both sound and performance.

By using Greenheck model SP ENERGY STAR® qualified fans you are helping to provide an energy efficient alternative that helps save money and resources.

See pages 16 and 17 for ENERGY STAR® qualified models.

More information on the certification process and a complete list of qualified products can be found on the ENERGY STAR® website (www.energystar.gov).

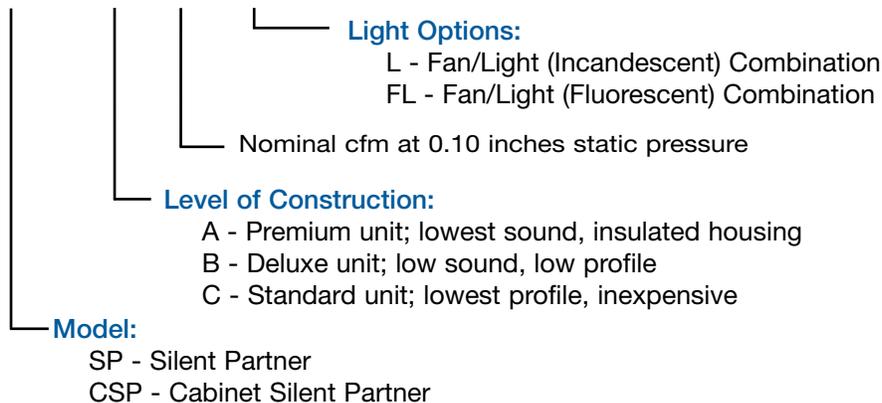
Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.



Model Number Code

The model number code system is designed to completely identify the fan. The correct code letters must be specified to designate belt or direct drive. The remainder of the model code is determined by the size and performance.

SP - A 50 FL

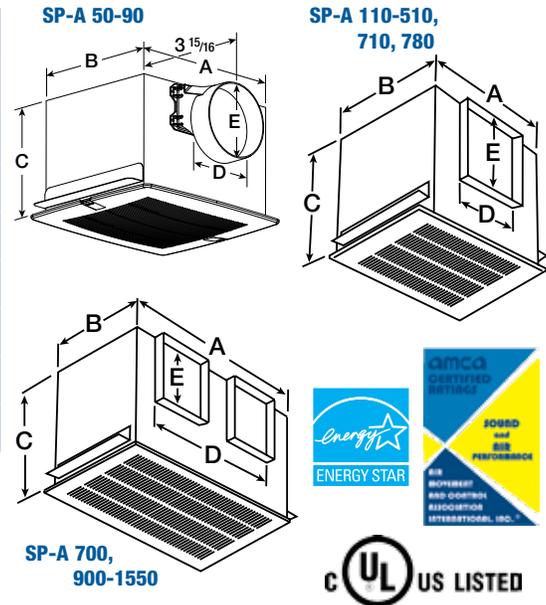


Model SP-A Premium Ceiling Fan



| Model SP-A Dimensions | | | | | | | | |
|-----------------------|---|---|---|---|------------|--|---|-------------|
| Model | A | B | C | D | E | Designer Grille* | Decorative Grille | Unit Weight |
| 50, 70, 90 | 13 ¹ / ₄ (337) | 10 ⁵ / ₈ (270) | 9 (229) | 6 (152) | | 14 ⁷ / ₈ x 13 ¹ / ₄ (378 x 337) | 15 ¹ / ₄ (387) sq. | 12 (5) |
| 110, 125, 190 | 13 ¹ / ₄ (337) | 10 ⁵ / ₈ (270) | 9 (229) | 8 (203) | 6 (152) | | | 17 (8) |
| 200, 250, 290, 390 | 14 (356) | 11 ⁷ / ₈ (302) | 11 ¹ / ₄ (286) | 8 (203) | 8 (203) | | | 24 (11) |
| 410, 510 | 18 (457) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 8 (203) | 8 (203) | 19 ³ / ₈ x 16 ³ / ₈ (492 x 416) | - | 31 (14) |
| 700 | 23 ³ / ₈ (600) | 11 ⁵ / ₈ (295) | 11 ⁵ / ₈ (295) | 19 ¹ / ₂ (495) | 8 (203) | 25 ¹ / ₈ x 13 ¹ / ₂ (638 x 343) | | 34 (15) |
| 710, 780 | 18 (457) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 10 (254) | 8 (203) | 19 ³ / ₈ x 16 ³ / ₈ (492 x 416) | | 34 (15) |
| 900, 1050, 1410, 1550 | 23 ³ / ₄ (603) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 18 ³ / ₄ (476) | 8 (203) | 25 x 16 ³ / ₈ (635 x 416) | | 56 (25) |

All dimensions are in inches (millimeters) and weight in pounds (kilograms).
 Outlet connection width is 1 in. (25 mm) - Mounting bracket width is 1 1/2 in. (38 mm).
 For complete dimensional information, see CAPS submittal drawings.
 * Sizes 410 and larger have an aluminum grille as standard.



*Note: Amp draw is approximate and may vary based on motor manufacturer.

| Model | Energy Star | RPM | Amps* | Watts | CFM / Static Pressure in Inches wg | | | | | | | | | | |
|------------------------------|-------------|------|-------|-------|------------------------------------|------|-------|------|-------|------|-------|------|-------|-----|-----|
| | | | | | 0 | 0.1 | 0.125 | 0.25 | 0.375 | 0.5 | 0.625 | 0.75 | 0.875 | 1 | |
| SP-A50 _{2,3,5} | ☆ | 700 | 0.31 | 18.3 | CFM | 76 | 51 | 48 | 31 | | | | | | |
| | | | | | Sones | 0.5 | 0.7 | 0.8 | 1.3 | | | | | | |
| SP-A70 _{2,3,5} | ☆ | 850 | 0.27 | 20.2 | CFM | 83 | 70 | 67 | 42 | | | | | | |
| | | | | | Sones | 0.8 | 0.8 | 0.8 | 1.6 | | | | | | |
| SP-A90 _{2,3,5} | ☆ | 900 | 0.34 | 29.4 | CFM | 99 | 88 | 84 | 61 | 25 | | | | | |
| | | | | | Sones | 0.8 | 1.0 | 0.9 | 1.2 | 1.4 | | | | | |
| SP-A110 _{2,3,4,5,6} | | 950 | 0.58 | 48.7 | CFM | 119 | 110 | 106 | 88 | | | | | | |
| | | | | | Sones | 0.8 | 0.8 | 1.0 | 1.1 | | | | | | |
| SP-A125 _{2,3,5,6} | | 1100 | 0.62 | 52.5 | CFM | 135 | 123 | 121 | 104 | | | | | | |
| | | | | | Sones | 0.9 | 1.2 | 1.3 | 1.3 | | | | | | |
| SP-A190 _{2,3,4,5,6} | | 1400 | 1.30 | 113 | CFM | 216 | 197 | 192 | 167 | 133 | | | | | |
| | | | | | Sones | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | | | | | |
| SP-A200 _{2,3,5} | ☆ | 900 | 0.43 | 48.2 | CFM | 247 | 225 | 220 | 196 | 172 | 142 | 105 | 67 | | |
| | | | | | Sones | 1.4 | 2.0 | 2.0 | 2.5 | 3.0 | 3.5 | 3.5 | 4.0 | | |
| SP-A250 _{2,3,5} | ☆ | 1000 | 0.77 | 83.1 | CFM | 272 | 251 | 246 | 227 | 210 | 185 | 157 | 119 | | |
| | | | | | Sones | 2.5 | 2.5 | 2.5 | 2.5 | 3.5 | 4.0 | 4.0 | 4.0 | | |
| SP-A290 _{2,3,4,5} | ☆ | 1050 | 0.72 | 80.7 | CFM | 315 | 293 | 287 | 257 | 231 | 207 | 175 | 124 | | |
| | | | | | Sones | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.5 | | |
| SP-A390 _{2,3,4,5} | | 1350 | 1.34 | 135 | CFM | 410 | 395 | 391 | 368 | 345 | 325 | 307 | 279 | | |
| | | | | | Sones | 4.5 | 4.5 | 4.5 | 4.5 | 5.0 | 5.0 | 5.5 | 5.5 | | |
| SP-A410 ₃ | ☆ | 1000 | 1.74 | 121 | CFM | 443 | 413 | 405 | 351 | 306 | | | | | |
| | | | | | Sones | 3.5 | 3.0 | 3.0 | 3.0 | 3.5 | | | | | |
| SP-A510 _{3,4} | | 1070 | 3.30 | 224 | CFM | 557 | 512 | 501 | 439 | 392 | 325 | | | | |
| | | | | | Sones | 5.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.0 | | | | |
| SP-A700 ₃ | | 1100 | 3.20 | 350 | CFM | 757 | 730 | 723 | 700 | 679 | 649 | 613 | 560 | 494 | 396 |
| | | | | | Sones | 5.0 | 5.0 | 5.0 | 5.5 | 5.5 | 6.0 | 6.0 | 6.5 | 6.5 | 6.5 |
| SP-A710 ₃ | | 1080 | 4.40 | 285 | CFM | 752 | 714 | 701 | 653 | 588 | 486 | 320 | | | |
| | | | | | Sones | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 5.5 | | | |
| SP-A780 _{3,4} | | 1600 | 3.30 | 348 | CFM | 812 | 782 | 775 | 741 | 704 | 665 | 625 | 581 | | |
| | | | | | Sones | 8.5 | 8.5 | 8.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | | |
| SP-A900 ₃ | | 950 | 4.00 | 285 | CFM | 955 | 907 | 896 | 841 | 773 | 701 | | | | |
| | | | | | Sones | 4.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | | | |
| SP-A1050 _{3,4} | | 1095 | 6.30 | 420 | CFM | 1125 | 1059 | 1043 | 964 | 885 | 796 | 662 | | | |
| | | | | | Sones | 6.0 | 6.0 | 6.0 | 6.0 | 5.5 | 5.5 | 5.5 | | | |
| SP-A1410 ₃ | | 1450 | 7.40 | 786 | CFM | 1455 | 1415 | 1404 | 1353 | 1307 | 1262 | 1218 | 1174 | | |
| | | | | | Sones | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | | |
| SP-A1550 _{3,4} | | 1610 | 8.60 | 818 | CFM | 1607 | 1558 | 1558 | 1506 | 1449 | 1407 | 1369 | 1323 | | |
| | | | | | Sones | 10.5 | 10.0 | 10.0 | 10.0 | 10.0 | 10.5 | 11.5 | 13.0 | | |

- 2 Available with light
- 3 Available with CRD - Ceiling Radiation Damper
- 4 Also available with 50 Hz motors (See page 20 for performance)

- 5 UL Listed for use above tubs.
- 6 Available with 277 volt motor.

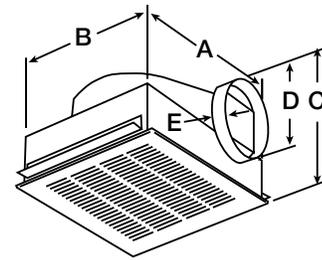
Performance certified is for model SP exhaust for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper. Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in spherical fan sones at 5 ft (1.5m) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for installation type B: free inlet spherical fan sone levels.

Model SP-B and SP-C

Deluxe and Standard Ceiling Fan



| Model SP-B Dimensions | | | | | | | | |
|-----------------------|---|---|------------|------------|---------------------------------------|--|--|-------------|
| Model | A | B | C* | D | E | Designer Grille | Decorative Grille | Unit Weight |
| 50, 70 & 80 | 13 ⁷ / ₈ (352) | 11 ¹ / ₂ (292) | 7 (179) | 6 (152) | 1 ¹ / ₄ (32) | 14 ⁷ / ₈ x 13 ¹ / ₄ (378 x 337) | 15 ¹ / ₄ (387) sq. | 9 (4) |
| 90, 110, 150, 200 | 13 ⁷ / ₈ (352) | 11 ¹ / ₂ (292) | 7 (179) | 6 (152) | 1 ¹ / ₄ (32) | | | 10 (5) |



All dimensions are in inches (millimeters) and weight in pounds (kilograms). *Add 1¹/₂ in. (38 mm) to C dimension for incandescent light. Mounting bracket width is 1¹/₂ in. (38 mm). For complete dimensional information, see CAPS submittal drawings.



*Note: Amp draw is approximate and may vary based on motor manufacturer.

| Model | Energy Star | RPM | Amps* | Watts | | CFM / Static Pressure in Inches wg | | | | | | | | | |
|------------------------------|-------------|------|-------|-------|-------|------------------------------------|-----|-------|------|-------|-----|-------|------|-------|-----|
| | | | | | | 0 | 0.1 | 0.125 | 0.25 | 0.375 | 0.5 | 0.625 | 0.75 | 0.875 | 1 |
| SP-B50 _{2,3,5} | ☆ | 625 | 0.50 | 37.8 | CFM | 67 | 54 | 51 | 40 | 29 | | | | | |
| | | | | | Sones | 1.2 | 1.4 | 1.4 | 2.0 | 3.0 | | | | | |
| SP-B70 _{2,3,5} | ☆ | 675 | 0.53 | 45.1 | CFM | 77 | 71 | 68 | 57 | 49 | 39 | | | | |
| | | | | | Sones | 1.2 | 1.4 | 1.4 | 2.0 | 2.5 | 3.0 | | | | |
| SP-B80 _{2,3,5} | ☆ | 900 | 0.60 | 54.3 | CFM | 87 | 80 | 78 | 68 | 61 | 54 | 44 | 30 | | |
| | | | | | Sones | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.5 | 4.5 | 4.5 | | |
| SP-B90 _{2,3,4,5} | ☆ | 700 | 0.65 | 49.7 | CFM | 101 | 89 | 88 | 75 | 59 | 45 | 30 | | | |
| | | | | | Sones | 1.5 | 2.0 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | | | |
| SP-B110 _{2,3,4,5,6} | | 950 | 1.14 | 80.2 | CFM | 133 | 114 | 110 | 97 | 95 | 94 | 91 | 85 | 72 | 50 |
| | | | | | Sones | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 3.0 | 3.5 | 4.0 | 4.5 |
| SP-B150 _{2,3,4,5,6} | | 1050 | 1.70 | 128 | CFM | 160 | 156 | 155 | 154 | 152 | 149 | 147 | 138 | 123 | 92 |
| | | | | | Sones | 2.5 | 2.5 | 2.5 | 3.0 | 3.5 | 3.5 | 4.0 | 4.5 | 4.5 | 5.0 |
| SP-B200 _{3,4,5,6} | | 1100 | 2.20 | 172 | CFM | 197 | 195 | 194 | 191 | 187 | 184 | 181 | 166 | 151 | 128 |
| | | | | | Sones | 3.5 | 4.0 | 4.0 | 4.5 | 4.5 | 5.0 | 5.0 | 5.5 | 5.5 | 5.5 |

2 Available with light

3 Available with CRD - Ceiling Radiation Damper

4 Also available with 50 Hz motors (See page 20 for performance)

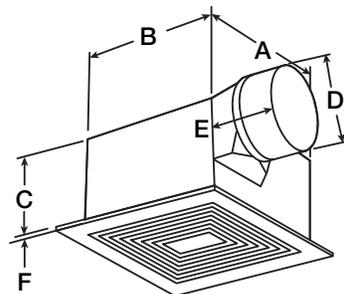
5 UL Listed for use above tubs.

6 Available with 277 volt motor.

Performance certified is for model SP exhaust for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper. Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in spherical fan sones at 5 ft (1.5m) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for installation type B: free inlet spherical fan sone levels.

| Model SP-C Dimensions | | | | | | | | |
|-----------------------|--|--|---------------------------------------|-----------|---------------------------------------|-------------|--|-------------|
| Model | A | B | C | D | E | F | Decorative Grille | Unit Weight |
| 50 | 7 ¹ / ₂ (191) | 7 ¹ / ₂ (191) | 3 ⁵ / ₈ (92) | 3 (76) | 1 ⁵ / ₈ (41) | 1/2 (13) | 9 ¹ / ₄ x 9 (235 x 229) | 5 (2) |

All dimensions are in inches (millimeters) and weight in pounds (kilograms). For complete dimensional information, see CAPS submittal drawings.



*Note: Amp draw is approximate and may vary based on motor manufacturer.

| Model | RPM | Amps* | Watts | | CFM / Static Pressure in Inches wg | | | | | | |
|--------|------|-------|-------|-------|------------------------------------|-----|-------|------|-------|-----|-------|
| | | | | | 0 | 0.1 | 0.125 | 0.25 | 0.375 | 0.5 | 0.625 |
| SP-C50 | 1680 | 0.80 | 46 | CFM | 52 | 49 | 49 | 47 | 44 | 38 | 29 |
| | | | | Sones | 3.0 | 3.0 | 3.0 | 3.0 | 3.5 | 4.0 | 4.0 |

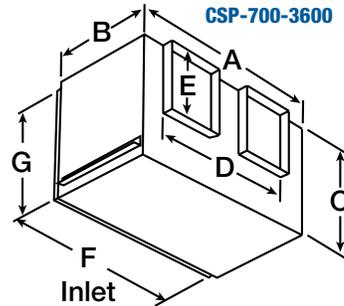
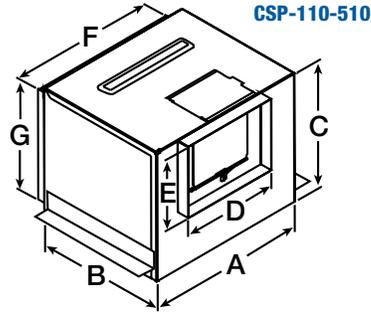
Performance certified is for model SP exhaust for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper. Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in spherical fan sones at 5 ft (1.5m) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for installation type B: free inlet spherical fan sone levels.

Model CSP-A Premium Inline Fan



| Model CSP-A Dimensions | | | | | | | | |
|------------------------|---------------|--------------|--------------|--------------|-------------|---------------|--------------|-------------|
| Model | A | B | C | D | E | F | G | Unit Weight |
| 110, 125, 190 | 13¼ (337) | 10⅝ (270) | 9 (229) | 8 (203) | 6 (152) | 12 (305) | 9¼ (235) | 16 (7) |
| 200, 250, 290, 390 | 14 (356) | 11⅞ (302) | 11¼ (286) | 8 (203) | 8 (203) | 12⅞ (327) | 10 (254) | 23 (10) |
| 410, 510 | 18 (457) | 14⅜ (365) | 14½ (368) | 8 (203) | 8 (203) | 16⅞ (429) | 13¼ (337) | 36 (16) |
| 700 | 23⅝ (600) | 11⅝ (295) | 11⅝ (295) | 19½ (495) | 8 (203) | 22⅝ (575) | 10½ (267) | 34 (15) |
| 710, 780 | 18 (457) | 14⅜ (365) | 14½ (368) | 10 (254) | 8 (203) | 16⅞ (429) | 13¼ (337) | 36 (16) |
| 900, 1050, 1410, 1550 | 23¾ (603) | 14⅜ (365) | 14½ (368) | 18¾ (476) | 8 (203) | 22⅝ (575) | 13¼ (337) | 59 (27) |
| 1750, 2150 | 35 (889) | 14¾ (375) | 14¾ (375) | 28 (711) | 6 (152) | 32¾ (832) | 13 (330) | 68 (31) |
| 3600 | 45½ (1156) | 16½ (419) | 16½ (419) | 40 (1016) | 11 (279) | 43¼ (1099) | 14⅝ (371) | 122 (55) |

All dimensions are in inches (millimeters) and weight in pounds (kilograms). Inlet and outlet connection widths are 1 in. (25 mm) - Mounting bracket width is 1½ in. (38 mm). For complete dimensional information, see CAPS submittal drawings.



*Note: Amp draw is approximate and may vary based on motor manufacturer.

| Model | RPM | Amps* | Watts | | CFM / Static Pressure in Inches wg | | | | | | | | | | |
|-------------------------|------|-------|-------|-------|------------------------------------|------|-------|------|-------|------|-------|------|-------|------|--|
| | | | | | 0 | 0.1 | 0.125 | 0.25 | 0.375 | 0.5 | 0.625 | 0.75 | 0.875 | 1 | |
| CSP-A110 | 950 | 0.62 | 48.7 | CFM | 124 | 112 | 110 | 102 | 77 | | | | | | |
| | | | | Sones | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | | | | | | |
| CSP-A125 ₆ | 1100 | 0.63 | 52.5 | CFM | 138 | 126 | 124 | 114 | 91 | | | | | | |
| | | | | Sones | 1.1 | 1.1 | 1.1 | 1.0 | 1.2 | | | | | | |
| CSP-A190 _{4,6} | 1400 | 1.10 | 100 | CFM | 215 | 202 | 198 | 180 | 159 | 121 | | | | | |
| | | | | Sones | 2.0 | 1.5 | 2.0 | 2.0 | 2.5 | 2.5 | | | | | |
| CSP-A200 | 900 | 0.43 | 48.2 | CFM | 254 | 231 | 226 | 203 | 178 | 145 | 109 | 70 | | | |
| | | | | Sones | 0.6 | 0.4 | 0.5 | 0.9 | 1.0 | 1.3 | 1.5 | 1.5 | | | |
| CSP-A250 | 1000 | 0.79 | 82.7 | CFM | 266 | 246 | 241 | 221 | 205 | 187 | 165 | 132 | | | |
| | | | | Sones | 0.9 | 1.0 | 1.0 | 2.0 | 2.5 | 3.0 | 2.5 | 2.5 | | | |
| CSP-A290 ₄ | 1050 | 0.71 | 80.7 | CFM | 318 | 299 | 292 | 265 | 248 | 229 | 201 | 144 | | | |
| | | | | Sones | 1.1 | 1.2 | 1.3 | 2.0 | 2.5 | 3.5 | 3.0 | 3.0 | | | |
| CSP-A390 | 1350 | 1.33 | 140 | CFM | 412 | 400 | 397 | 382 | 363 | 339 | 324 | 309 | | | |
| | | | | Sones | 2.0 | 2.0 | 2.0 | 2.5 | 3.0 | 4.0 | 4.5 | 4.5 | | | |
| CSP-A410 | 1000 | 1.87 | 135 | CFM | 447 | 441 | 403 | 364 | 317 | 217 | | | | | |
| | | | | Sones | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | | | | | |
| CSP-A510 | 1070 | 3.11 | 217 | CFM | 545 | 514 | 506 | 464 | 405 | 324 | | | | | |
| | | | | Sones | 2.5 | 2.0 | 2.0 | 2.0 | 2.0 | 2.5 | | | | | |
| CSP-A700 | 1100 | 3.20 | 350 | CFM | 766 | 755 | 752 | 739 | 726 | 702 | 678 | 635 | 549 | 418 | |
| | | | | Sones | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.5 | 2.5 | 4.0 | |
| CSP-A710 | 1080 | 4.40 | 325 | CFM | 737 | 698 | 688 | 635 | 567 | 475 | 334 | | | | |
| | | | | Sones | 2.5 | 2.5 | 2.5 | 2.5 | 2.0 | 2.0 | | | | | |
| CSP-A780 ₄ | 1600 | 3.77 | 405 | CFM | 813 | 784 | 777 | 742 | 707 | 672 | 638 | 603 | 567 | 527 | |
| | | | | Sones | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.0 | 3.0 | 3.0 | 3.0 | 3.5 | |
| CSP-A900 | 950 | 4.87 | 328 | CFM | 908 | 852 | 841 | 782 | 715 | 631 | | | | | |
| | | | | Sones | 1.4 | 1.4 | 1.4 | 2.0 | 2.5 | 3.0 | | | | | |
| CSP-A1050 ₄ | 1095 | 6.65 | 455 | CFM | 1182 | 1110 | 1093 | 1013 | 922 | 832 | 743 | | | | |
| | | | | Sones | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | | | | | |
| CSP-A1410 | 1450 | 7.80 | 822 | CFM | 1584 | 1543 | 1533 | 1483 | 1439 | 1395 | 1345 | 1293 | 1238 | 1181 | |
| | | | | Sones | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 4.0 | 4.0 | |
| CSP-A1550 ₄ | 1610 | 8.32 | 830 | CFM | 1672 | 1618 | 1604 | 1543 | 1484 | 1427 | 1367 | 1307 | 1240 | 1172 | |
| | | | | Sones | 5.0 | 4.5 | 4.5 | 4.5 | 4.5 | 4.0 | 4.0 | 4.5 | 4.5 | 4.5 | |
| CSP-A1750 | 1130 | 6.60 | 550 | CFM | 1842 | 1768 | 1749 | 1619 | 1464 | 1284 | 1032 | 772 | 484 | | |
| | | | | Sones | 5.0 | 5.0 | 5.0 | 4.5 | 4.0 | 4.0 | 3.5 | 3.0 | 3.0 | | |
| CSP-A2150 | 1100 | 7.80 | 735 | CFM | 2249 | 2175 | 2156 | 2044 | 1900 | 1701 | 1424 | 1114 | | | |
| | | | | Sones | 5.0 | 4.5 | 4.5 | 4.0 | 4.0 | 4.0 | 3.0 | 3.0 | | | |
| CSP-A3600 | 1100 | 7.10 | 1330 | CFM | 3778 | 3653 | 3622 | 3460 | 3280 | 3091 | 2844 | 2551 | 2232 | 1750 | |
| | | | | Sones | 5.0 | 5.0 | 5.0 | 5.0 | 4.5 | 4.0 | 4.0 | 4.0 | 3.5 | 3.5 | |

4 Units also available with 50 Hz motors (See page 21 for performance)

6 Available with 277 volt motor.

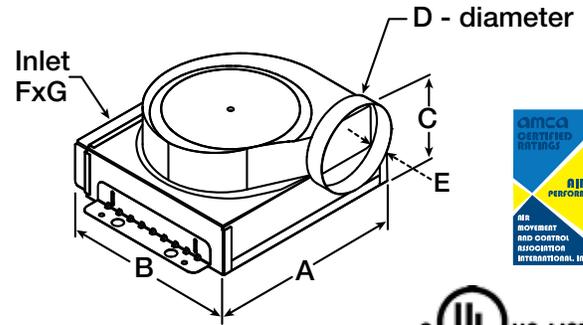
Performance certified is for model CSP inline for installation type D: Ducted inlet, Ducted outlet. Performance ratings include the effects of a backdraft damper. Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in spherical fan sones at 5 ft (1.5m) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for installation type D: ducted inlet spherical fan sone levels. Ratings do not include the effect of duct end correction. Ratings are based on 10 ft of insulated duct. The AMCA Certified Ratings Seal applies to air performance ratings only.

Model CSP-B Deluxe Inline Fan



| Model CSP-B Dimensions | | | | | | | | |
|------------------------|---|---|------------|------------|---------------------------------------|---|---------------------------------------|---------------------------------------|
| Model | A | B | C | D | E | F | G | Unit Weight |
| 110, 150, 200 | 13 ⁷ / ₈ (352) | 11 ¹ / ₂ (292) | 7 (178) | 6 (152) | 1 ¹ / ₄ (32) | 10 ¹ / ₄ (260) | 3 ¹ / ₄ (83) | 10 ¹ / ₄ (5) |

All dimensions are in inches (millimeters) and weight in pounds (kilograms).
Outlet connection width is 1 in. (25 mm) - Mounting bracket width is 1/2 in. (38 mm).
For complete dimensional information, see CAPS submittal drawings.



*Note: Amp draw is approximate and may vary based on motor manufacturer.

| Model | RPM | Amps* | Watts | CFM / Static Pressure in Inches wg | | | | | | | | |
|-------------------------|------|-------|-------|------------------------------------|-----|-------|------|-------|-----|-------|------|-----|
| | | | | 0 | 0.1 | 0.125 | 0.25 | 0.375 | 0.5 | 0.625 | 0.75 | |
| CSP-B110 _{4,6} | 950 | 1.14 | 80 | CFM | 103 | 100 | 100 | 98 | 97 | 96 | 94 | 86 |
| | | | | Sones | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 2.5 | 2.5 |
| CSP-B150 _{4,6} | 1050 | 1.70 | 129 | CFM | 151 | 150 | 149 | 148 | 144 | 146 | 142 | 135 |
| | | | | Sones | 2.0 | 2.0 | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.0 |
| CSP-B200 _{4,6} | 1100 | 2.20 | 173 | CFM | 186 | 184 | 184 | 182 | 181 | 179 | 175 | 170 |
| | | | | Sones | 3.0 | 3.0 | 3.0 | 3.0 | 3.5 | 3.5 | 3.5 | 3.5 |

4 Units also available with 50 Hz motors
(See page 21 for performance)

6 Available with 277 volt motor.

Performance certified is for model CSP inline for installation type D: Ducted inlet, Ducted outlet. Performance ratings include the effects of a backdraft damper. Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in spherical fan sones at 5 ft (1.5m) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for installation type D: ducted inlet spherical fan sone levels. Ratings do not include the effect of duct end correction. Ratings are based on 10 ft of insulated duct. The AMCA Certified Ratings Seal applies to air performance ratings only.

Model SP

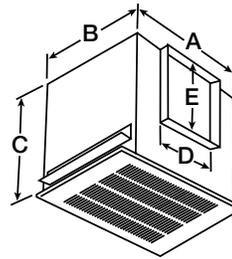
50 Cycle Performance



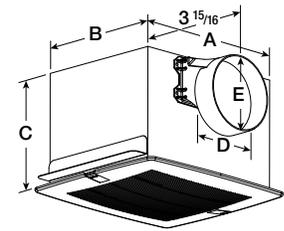
For uses in countries with 50 cycle (50 Hz) power, Greenheck offers the same reliability and performance for ceiling mounted exhaust fans model SP.

- Same dimensions and outlet options
- Performance shown in 50 cycle RPMs
- Full-line of grille and discharge accessories available

SP-A 110-510, 710, 780



SP-A 50-90



Model SP Dimensions

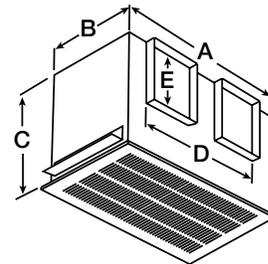
| SP-A | A | B | C | D | E | Designer Grille* | Decorative Grille | Unit Weight |
|-----------------------|---|---|---|---|------------|--|---|-------------|
| 50, 70, 90 | 13 ¹ / ₄ (337) | 10 ⁵ / ₈ (270) | 9 (229) | | 6 (152) | | | 12 (5) |
| 110, 125, 190 | 13 ¹ / ₄ (337) | 10 ⁵ / ₈ (270) | 9 (229) | 8 (203) | 6 (152) | 14 ⁷ / ₈ x 13 ¹ / ₄ (378 x 337) | 15 ¹ / ₄ (387) square | 17 (8) |
| 200, 250, 290, 390 | 14 (356) | 11 ⁷ / ₈ (302) | 11 ¹ / ₄ (286) | 8 (203) | 8 (203) | | | 24 (11) |
| 410, 510 | 18 (457) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 8 (203) | 8 (203) | 19 ³ / ₈ x 16 ³ / ₈ (492 x 416) | | 31 (14) |
| 710, 780 | 18 (457) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 10 (254) | 8 (203) | 19 ³ / ₈ x 16 ³ / ₈ (492 x 416) | — | 34 (15) |
| 900, 1050, 1410, 1550 | 23 ³ / ₄ (603) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 18 ³ / ₄ (476) | 8 (203) | 25 x 16 ³ / ₈ (635 x 416) | | 56 (25) |

Outlet connection width is 1 in. (25 mm) - Mounting bracket width is 1¹/₂ in. (38 mm).

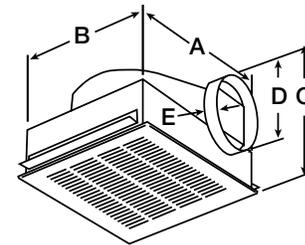
| SP-B | A | B | C | D | E | Designer Grille* | Decorative Grille | Unit Weight |
|-------------------|---|---|------------|------------|---------------------------------------|--|---|-------------|
| 50, 70 & 80 | 13 ⁵ / ₈ (352) | 11 ¹ / ₂ (292) | 7 (178) | 6 (152) | 1 ¹ / ₄ (32) | 14 ⁷ / ₈ x 13 ¹ / ₄ (378 x 337) | 15 ¹ / ₄ (387) square | 9 (4) |
| 90, 110, 150, 200 | 13 ⁵ / ₈ (352) | 11 ¹ / ₂ (292) | 7 (178) | 6 (152) | 1 ¹ / ₄ (32) | 14 ⁷ / ₈ x 13 ¹ / ₄ (378 x 337) | | 10 (5) |

All dimensions are in inches (millimeters) and weight in pounds (kilograms). *Add 1¹/₂ in. (38 mm) to C dimension for incandescent light. Mounting bracket width is 1¹/₂ in. (38 mm). For complete dimensional information, see CAPS submittal drawings. *Sizes 410 and larger have an aluminum grille as standard.

SP-A (double-wide) 700, 900-1550



SP-B 50-200



*Note: Amp draw is approximate and may vary based on motor manufacturer.

| Model | RPM | Amps* | Watts | CFM / Static Pressure in Inches of wg. | | | | | | | | | |
|------------------------------|------|-------|-------|--|-------|-------|-------|-------|-------|-------|-------|------|--|
| | | | | 0.000 | 0.050 | 0.100 | 0.125 | 0.150 | 0.250 | 0.375 | 0.500 | | |
| SP-A110 (50 Hertz Motor) | 950 | 0.29 | 49 | CFM | 119 | 115 | 110 | 106 | 103 | 88 | | | |
| | | | | Sones | 1.3 | 1.3 | 1.2 | 1.2 | 1.3 | 1.6 | | | |
| SP-A190 (50 Hertz Motor) | 1400 | 0.65 | 113 | CFM | 216 | 206 | 197 | 192 | 187 | 167 | 133 | | |
| | | | | Sones | 3.2 | 3.0 | 2.8 | 2.9 | 2.9 | 3.1 | 3.4 | | |
| SP-A290 (50 Hertz Motor) | 1050 | 0.36 | 81 | CFM | 329 | 315 | 302 | 296 | 290 | 262 | 222 | 164 | |
| | | | | Sones | 3.2 | 3.3 | 3.3 | 3.3 | 3.4 | 3.7 | 4.0 | 4.9 | |
| SP-A390 (50 Hertz Motor) | 1350 | 0.67 | 135 | CFM | 410 | 402 | 395 | 392 | 387 | 368 | 345 | 325 | |
| | | | | Sones | 5.4 | 5.4 | 5.4 | 5.4 | 5.5 | 5.7 | 6.0 | 6.3 | |
| SP-A510 (50 Hertz Motor) | 900 | 1.65 | 224 | CFM | 447 | 425 | 400 | 388 | 376 | 315 | 159 | | |
| | | | | Sones | 3.7 | 3.5 | 3.3 | 3.3 | 3.3 | 3.1 | 2.6 | | |
| SP-A780 (50 Hertz Motor) | 1334 | 1.65 | 348 | CFM | 677 | 659 | 642 | 633 | 625 | 591 | 544 | 493 | |
| | | | | Sones | 8.8 | 8.9 | 8.8 | 8.7 | 8.6 | 8.2 | 8.1 | 8.1 | |
| SP-A1050 (50 Hertz Motor) | 950 | 3.15 | 420 | CFM | 990 | 945 | 905 | 886 | 867 | 769 | 531 | | |
| | | | | Sones | 7.2 | 7.0 | 6.8 | 6.8 | 6.8 | 6.6 | 6.5 | | |
| SP-A1550 (50 Hertz Motor) | 1340 | 4.3 | 818 | CFM | 1337 | 1314 | 1290 | 1279 | 1266 | 1211 | 1161 | 1112 | |
| | | | | Sones | 11.1 | 10.7 | 10.6 | 10.6 | 10.6 | 10.5 | 11.6 | 13.5 | |
| SP-B90 (50 Hertz Motor) | 700 | 0.325 | 50 | CFM | 102 | 97 | 92 | 88 | 86 | 75 | 59 | 45 | |
| | | | | Sones | 1.9 | 2.2 | 2.6 | 2.7 | 2.7 | 3.0 | 3.6 | 4.1 | |
| SP-B110 (50 Hertz Motor) | 950 | 0.57 | 80 | CFM | 133 | 124 | 114 | 110 | 107 | 97 | 95 | 94 | |
| | | | | Sones | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 | 2.4 | 2.7 | 2.8 | |
| SP-B150 (50 Hertz Motor) | 1050 | 0.85 | 129 | CFM | 160 | 158 | 156 | 155 | 155 | 154 | 152 | 149 | |
| | | | | Sones | 3.0 | 3.1 | 3.3 | 3.3 | 3.4 | 3.7 | 4.3 | 4.5 | |
| SP-B200 (50 Hertz Motor) | 1100 | 1.1 | 173 | CFM | 197 | 196 | 195 | 194 | 194 | 191 | 187 | 184 | |
| | | | | Sones | 4.4 | 4.7 | 4.6 | 4.7 | 4.9 | 5.1 | 5.6 | 5.8 | |

Model SP with 50 hertz motor is not AMCA certified or ENERGY STAR® qualified.

Model CSP

50 Cycle Performance

For uses in countries with 50 cycle (50 Hz) power, Greenheck offers the same reliability and performance for inline cabinet fans model CSP.

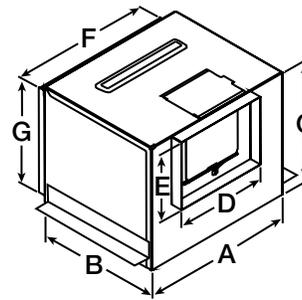
- Same dimensions and outlet options
- Performance shown in 50 cycle RPMs
- Full line of discharge accessories available

Model CSP Dimensions

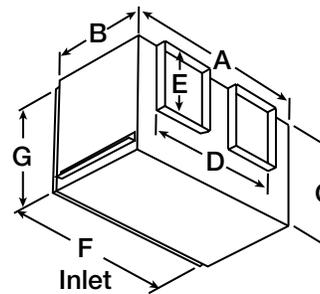
| CSP-A | A | B | C | D | E | F | G | Unit Weight |
|-----------------------|--|---|---|---|---------------------------------------|--|---|---------------------------------------|
| 110, 125, 190 | 13 ¹ / ₄ (337) | 10 ⁵ / ₈ (270) | 9 (229) | 8 (203) | 6 (152) | 12 (305) | 9 (235) | 16 (7) |
| 200, 250, 290, 390 | 14 (356) | 11 ⁷ / ₈ (302) | 11 ¹ / ₄ (286) | 8 (203) | 8 (203) | 12 ⁷ / ₈ (327) | 10 (254) | 23 (10) |
| 410, 510 | 18 (457) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 8 (203) | 8 (203) | 16 ⁷ / ₈ (429) | 13 ¹ / ₄ (337) | 36 (16) |
| 700 | 23 ⁵ / ₈ (600) | 11 ⁵ / ₈ (295) | 11 ⁵ / ₈ (295) | 19 ¹ / ₂ (495) | 8 (203) | 22 ⁵ / ₈ (575) | 10 ¹ / ₂ (267) | 34 (15) |
| 710, 780 | 18 (457) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 10 (254) | 8 (203) | 16 ⁷ / ₈ (429) | 13 ¹ / ₄ (337) | 36 (16) |
| 900, 1050, 1410, 1550 | 23 ³ / ₄ (603) | 14 ³ / ₈ (365) | 14 ¹ / ₂ (368) | 18 ³ / ₄ (476) | 8 (203) | 22 ⁵ / ₈ (575) | 13 ¹ / ₄ (337) | 59 (27) |
| 1750, 2150 | 35 (889) | 14 ³ / ₄ (375) | 14 ³ / ₄ (375) | 28 (711) | 6 (152) | 32 ³ / ₄ (832) | 13 (330) | 68 (31) |
| 3600 | 45 ¹ / ₂ (1156) | 16 ¹ / ₂ (419) | 16 ¹ / ₂ (419) | 40 (1016) | 11 (279) | 43 ¹ / ₄ (1099) | 14 ⁵ / ₈ (371) | 122 (55) |
| CSP-B | A | B | C | D | E | F | G | Unit Weight |
| 110, 150, 200 | 13 ⁷ / ₈ (352) | 11 ¹ / ₂ (292) | 7 (178) | 6 (152) | 1 ¹ / ₄ (32) | 10 ¹ / ₄ (260) | 3 ¹ / ₄ (83) | 10 ¹ / ₄ (5) |

All dimensions are in inches (millimeters) and weight in pounds (kilograms). Inlet and outlet connection widths are 1 in. (25 mm) - Mounting bracket width is 1/2 in. (38 mm). For complete dimensional information, see CAPS submittal drawings.

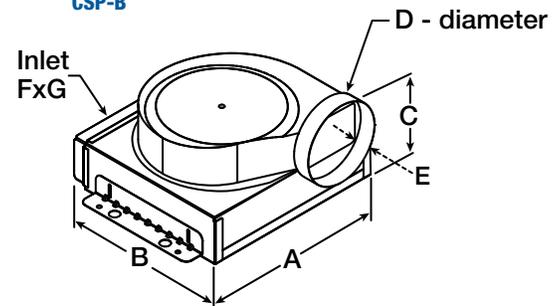
CSP-A 110-510, 710, 780



CSP-A (double wide) 700, 900-3600



CSP-B



*Note: Amp draw is approximate and may vary based on motor manufacturer.

| Model | RPM | Amps* | Watts | | CFM / Static Pressure in Inches of wg | | | | | | | | |
|-------------------------------|------|-------|-------|-------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | 0.000 | 0.050 | 0.100 | 0.125 | 0.150 | 0.250 | 0.375 | 0.500 | 0.625 |
| CSP-A110 (50 Hertz Motor) | 950 | 0.31 | 51 | CFM | 124 | 116 | 112 | 110 | 109 | 102 | 77 | | |
| | | | | Sones | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.3 | 1.3 | | |
| CSP-A190 (50 Hertz Motor) | 1400 | 0.55 | 100 | CFM | 215 | 202 | 198 | 180 | 159 | 121 | | | |
| | | | | Sones | 2.3 | 2.0 | 2.2 | 2.7 | 2.9 | 3.0 | | | |
| CSP-A390 (50 Hertz Motor) | 1350 | 0.665 | 144 | CFM | 412 | 400 | 397 | 382 | 363 | 339 | 324 | 309 | |
| | | | | Sones | 2.8 | 2.7 | 2.8 | 3.2 | 3.7 | 4.7 | 5.5 | 6.5 | |
| CSP-A780 (50 Hertz Motor) | 1334 | 1.885 | 405 | CFM | 685 | 656 | 648 | 609 | 562 | 520 | 481 | | |
| | | | | Sones | 5.0 | 4.9 | 4.8 | 4.7 | 4.6 | 4.7 | 4.9 | | |
| CSP-A1050 (50 Hertz Motor) | 950 | 3.325 | 455 | CFM | 1079 | 1031 | 982 | 957 | 934 | 841 | 655 | | |
| | | | | Sones | 6.3 | 6.3 | 6.0 | 5.9 | 5.9 | 6.0 | 5.5 | | |
| CSP-A1550 (50 Hertz Motor) | 1340 | 4.16 | 830 | CFM | 1391 | 1326 | 1311 | 1240 | 1171 | 1098 | 1019 | 929 | |
| | | | | Sones | 7.5 | 7.4 | 7.4 | 7.3 | 7.4 | 7.3 | 7.3 | 7.2 | |
| CSP-B110 (50 Hertz Motor) | 950 | 0.57 | 80 | CFM | 103 | 102 | 100 | 99 | 99 | 98 | 97 | 96 | 93 |
| | | | | Sones | 2.0 | 1.9 | 2.0 | 2.1 | 2.1 | 2.3 | 2.6 | 2.7 | 3.1 |
| CSP-B150 (50 Hertz Motor) | 1050 | 0.85 | 129 | CFM | 151 | 150 | 149 | 149 | 149 | 148 | 148 | 145 | 142 |
| | | | | Sones | 2.5 | 2.7 | 2.7 | 2.7 | 2.7 | 2.9 | 3.1 | 3.4 | 3.6 |
| CSP-B200 (50 Hertz Motor) | 1100 | 1.1 | 173 | CFM | 186 | 185 | 184 | 183 | 183 | 182 | 180 | 178 | 175 |
| | | | | Sones | 3.4 | 3.7 | 3.6 | 3.7 | 3.7 | 4.0 | 4.1 | 4.1 | 4.3 |

Model CSP with 50 hertz motor is not AMCA certified or ENERGY STAR® qualified.



Models SP-A50 thru A1550

Ceiling mounted exhaust fans shall be of the centrifugal direct drive type. The fan housing shall be constructed of heavy-gauge galvanized steel. The housing interior shall be lined with 1/2 inch (13 mm) acoustical insulation. The outlet duct collar shall include a polypropylene backdraft damper on SP-A50 - 90 and a spring loaded aluminum backdraft damper on SP-A110 and larger. Outlet shall be adaptable for horizontal or vertical discharge. The designer grille for sizes SP-A50 through SP-A390 shall be constructed of high-impact polystyrene and for sizes SP-A410 through SP-A1550, the grille shall be constructed of aluminum. Grilles shall be non-yellowing.

The access for wiring shall be external. The motor disconnect shall be internal and of the plug-in type. The motor shall be mounted on vibration isolators. The fan wheel shall be of the forward-curved centrifugal type and dynamically balanced. All fans shall bear the AMCA Certified Ratings program AMCA Sound and Air Performance seal and shall be UL/cUL Listed. Ceiling or wall mount fans shall be model SP as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin.

*Model SP-A fans with 50 hertz motors are not AMCA certified or ENERGY STAR® qualified.

Models SP-B50, B70, B80, B90, B110, B150, and B200

Ceiling mounted exhaust fans shall be of the centrifugal direct drive type. The fan housing shall be constructed of galvanized steel. The polypropylene duct collar shall be 6 inches (152 mm) in diameter and shall include a backdraft damper. The designer grille shall be constructed of non-yellowing high-impact polystyrene and attached to the housing with hidden attachment screws. The access for wiring shall be external. The motor disconnect shall be internal and of the plug-in type.

The motor shall be mounted on vibration isolators. The fan wheel shall be of the forward-curved centrifugal type, constructed of calcium carbonate filled polypropylene and dynamically balanced. All fans shall bear the AMCA Certified Ratings program AMCA Sound and Air Performance seal and shall be UL/cUL Listed. Ceiling or wall mount fans shall be model SP-B50, B70, B80, B90, B110, B150 or B200 as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin.

*Model SP-B fans with 50 hertz motors are not AMCA certified or ENERGY STAR® qualified.

Model SP-C50

Ceiling mounted exhaust fans shall be of the centrifugal direct drive type. The fan housing shall be constructed of galvanized steel. The polypropylene duct collar shall be a sleeve for ease of connection to 3 inch (76 mm) and 4 inch (102 mm) round ductwork and shall include a backdraft damper. The grille shall be constructed of non-yellowing high-impact polystyrene and attached to the housing with torsion springs.

The wheels shall be constructed of high-strength polymer. The access for wiring shall be easily accessible internally. The motor disconnect shall be internal and of the plug-in type. All fans shall bear the AMCA Certified Ratings program AMCA Sound and Air Performance seal. Model SP-C50 shall be UL Listed. Fans shall be model SP-C50 as supplied by Greenheck Fan Corporation, Schofield, Wisconsin.

*Model SP-C fans with 50 hertz motors are not AMCA certified or ENERGY STAR® qualified.



Models CSP-A110 thru A3600

Duct-mounted exhaust, supply or return air fans shall be of the centrifugal direct drive type. The fan housing shall be constructed of heavy-gauge galvanized steel. The housing interior shall be lined with 1/2 inch (13 mm) acoustical insulation. The outlet duct collar shall include an aluminum backdraft damper and shall be adaptable for horizontal or vertical discharge. The access for wiring shall be external. The motor disconnect shall be internal and of the plug-in type.

The motor shall be mounted on vibration isolators. The fan wheel shall be of the forward-curved centrifugal type and dynamically balanced. All fans shall bear the AMCA Certified Ratings program AMCA Air Performance seal and shall be UL/cUL Listed. Ceiling or wall mount fans shall be model CSP as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin.

*Model CSP-A fans with 50 hertz motors are not AMCA certified or ENERGY STAR[®] qualified.

Models CSP-B110, B150 and B200

Duct-mounted exhaust, supply or return air fans shall be of the centrifugal direct drive type. The fan housing shall be constructed of galvanized steel. The polypropylene duct collar shall be 6 inch (152 mm) in diameter to accept 6-inch (152 mm) round ductwork and shall include a backdraft damper. The access for wiring shall be external. The motor disconnect shall be internal and of the plug-in type.

The motor shall mounted on vibration isolators. The fan wheel shall be of the forward-curved centrifugal type, constructed of calcium carbonate filled polypropylene and dynamically balanced. All fans shall bear the AMCA Certified Ratings program AMCA Air Performance seal and shall be UL/cUL Listed. Ceiling or wall mount fans shall be model CSP-B110, B150 or B200 as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin.

*Model CSP-B fans with 50 hertz motors are not AMCA certified or ENERGY STAR[®] qualified.

ENERGY STAR® Qualified SP Fans



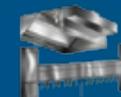
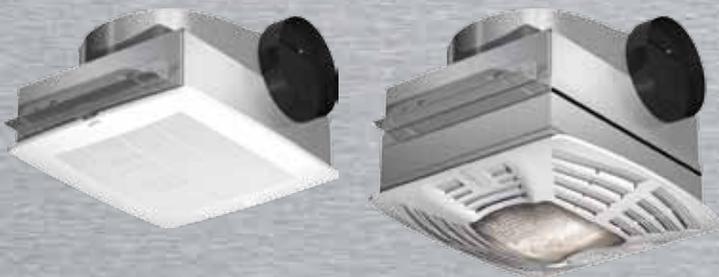
ENERGY STAR® qualified Greenheck SP fans provide an energy efficient alternative to help save money and resources.

See Pages 16 and 17 for specific model selections.

SP-A Models



SP-B Models



Our Warranty

Greenheck Fan Corporation warrants its SP/CSP products to be free of any defect in material or workmanship for a period of three years from the date of shipment. In the event of such a defect during the warranty period, Greenheck Fan Corporation agrees, at its option, to either repair or replace the defective product free of charge. This warranty runs to the original purchaser of such SP/CSP products for a period of three years from the date of shipment. Any product repaired or replaced under this warranty will, itself, be warranted only for the remainder of the warranty period of the original product being repaired or replaced. All light bulbs are excluded under this limited warranty. Greenheck Fan Corporation is not responsible for any removal, installation, or transportation cost.

As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.



Prepared to Support
Green Building Efforts

