

MASTERSPEC™

BY GREENHECK

Precision Ventilation Fan Model SP-AP



AP0511W



1WL



GREENHECK

Building Value in Air.

September
2021

The Evolution of High-Performance Ventilation

Our specification grade ventilation fans help ensure that you meet code, exceed your customers' expectations, and eliminate costly callbacks.

Exclusive Features:

- **MASTERSPEC SP-AP Series** is powered by an electronically commutated motor (ECM) with **Constant CFM** adaptive, variable speed technology programmed to overcome the static pressure associated with common residential installation scenarios (0.4 in. wg and above). The motor reacts to increased static pressure by increasing its speed to ensure you have the airflow required to remove unhealthy air and moisture.
- The ECM motor can be controlled with a built-in **Precision Airflow Selector**, which allows you to dial in the precise airflow (in 1 cfm increments) required to match your design or code requirements.
- Greenheck's specification-grade ventilation fans are all **tested and certified (air & sound) for 0.4 in. wg and above**, so there are no surprises, you get the airflow that you paid for and eliminate callbacks.
- The SP-AP series offers **plug and play customization** so you can easily customize your fan in the field with four optional USB plug-in modules (humidity, motion, CO2, and night light).
- The **Universal Duct Adapter** allows quick connections to 4 in., 5 in., and 6 in. ducting.



Additional Benefits

- The virtually silent ECM motor features three built-in high-speed airflow settings of 50, 80, and 110 cfm and a built-in 0 to 60 minute time delay providing you with flexibility in design and adjustability in the field.
- Standard 2-speed (commonly known as whole-house ventilation) operation which can meet ASHRAE 62.2, LEED, CalGreen, EPA Indoor airPLUS, California Title 24, Washington State Residential Ventilation and Indoor Air Quality Code and ENERGY STAR for Homes.
- A quick-mount bracket enables installation from below the ceiling. New construction and retrofits installations are quick and easy.
- UL listed for tub/shower enclosure when GFCI protected.
- SP-AP0511WL includes a 10W dimmable LED chip panel, 750 lumens, 3000K warm white color temperature, and Rated Life of 50,000 hours.
- 3-year warranty on ECM motor and parts, excluding light.
- COMING SOON! CRD-300WT, a UL263 certified Ceiling Radiation Damper compatible with both the lighted and non-lighted SP-AP models. Available January 2022.

Optional Plug and Play Accessories:

Humidity Sensor – This simple USB plug-in control module monitors humidity levels. When elevated humidity levels are detected, it automatically controls the fan to effectively remove moisture and reduce the risk of mold and mildew. The sensor's sensitivity (30% to 80% Relative Humidity (RH)) can be easily adjusted in the field and complies with green building code requirements. The humidity sensor can also be used in harmony with whole-house ventilation operation. The fan automatically boosts the airflow to the high-speed setting in this mode when high humidity levels are detected.

Motion Sensor – This reliable USB, plug-in control module, utilizes Passive Infrared (PIR) technology to detect motion and automatically turn the fan on/off for effective odor or moisture control. Once the sensor no longer detects motion, it activates a delay off timer (field adjustable from 0 to 60 minutes) that enables the fan to continue to operate the appropriate amount of time necessary to remove all the unhealthy air. The motion sensor can be utilized in harmony with whole-house ventilation operation. The fan will automatically boost the airflow to the high-speed setting in this mode when motion is detected.

Night Light – This unique USB plug-in module uses an ambient light sensor to turn on the low intensity, soft white LED automatically, providing the right amount of light for bathroom visits in the middle of the night. The night light module is available as a plug and play option on the SPAP0511W and the SP-AP0511WL comes standard with an integral night light.

CO₂ – This exclusive USB plug-in IAQ control module tracks carbon dioxide levels and is an inexpensive and powerful way to monitor and lessen the risk of COVID-19 transmission at home. When CO₂ concentrations exceed the OSHA/ASHRAE recommended maximum of 1000 PPM, the sensor will turn on the fan and continue to operate the fan until CO₂ levels are below 800 PPM (a typical value-level representing an indoor area with good ventilation). High CO₂ levels are linked to significant increases in drowsiness, tiredness, headaches, lower levels of concentration, and an increased likelihood of spreading respiratory viruses.



Humidity Sensor
386691



Motion Sensor
386690



Night Light
386692



CO₂ Sensor
386693

Specification Comparison

| Features and Benefits | SPEC Grade | Residential Grade |
|---|------------|-------------------|
| Part Number | SP-AP | FAN |
| Installed Performance | | |
| Certified CFMs at 0.4 in. wg and above | ✓ | ✗ |
| Certified Sones at 0.4 in. wg and above | ✓ | ✗ |
| Precision Airflow Selector | ✓ | ✗ |
| Customization | | |
| Four (4) Plug and Play Options | ✓ | ✗ |
| Convenience | | |
| Universal Duct Adaptor (4, 5 or 6 inch) | ✓ | ✗ |
| Control | | |
| Humidity, Motion and CO ₂ | ✓ | ✗ |

Highlighted ratings at **0.25 in. wg** are required to meet ENERGY STAR certification and **0.4 in. wg** represents the static pressure found in common installations.

| Model | ENERGY STAR® | CFM Selection | RPM | Max Amps | Max Watts | | CFM/Static Pressure in Inches wg | | | | |
|-------------|--------------|---------------|-----|----------|-----------|----------|----------------------------------|------|------|------|-------|
| | | | | | | | 0.1 | 0.25 | 0.4 | 0.5 | 0.625 |
| SP-AP0511W | ☆ | 50 | 820 | 0.24 | 16.5 | CFM | 50 | 50 | 50 | 50 | 50 |
| | | | | | | Sones | <0.3 | 0.6 | 1.5 | 2.5 | 3.0 |
| | | | | | | CFM/Watt | 9.2 | 5.1 | 3.7 | 3.0 | 2.8 |
| | | | | | | Watts | 5.5 | 9.8 | 13.7 | 16.5 | 17.7 |
| | | 80 | 831 | 0.26 | 18.1 | CFM | 80 | 80 | 80 | 80 | 80 |
| | | | | | | Sones | <0.3 | 0.7 | 1.4 | 2.0 | 3.0 |
| | | | | | | CFM/Watt | 10.5 | 6.8 | 5.0 | 4.4 | 3.4 |
| | | | | | | Watts | 7.6 | 11.7 | 16.1 | 18.2 | 17.7 |
| | | 110 | 861 | 0.30 | 20.1 | CFM | 110 | 110 | 110 | 98 | 65 |
| | | | | | | Sones | 0.4 | 0.8 | 1.3 | 2.0 | 3.0 |
| | | | | | | CFM/Watt | 9.6 | 6.8 | 4.9 | 5.0 | 3.6 |
| | | | | | | Watts | 11.4 | 16.2 | 22.5 | 19.5 | 18.0 |
| SP-AP0511WL | ☆ | 50 | 819 | 0.24 | 16.3 | CFM | 50 | 50 | 50 | 50 | — |
| | | | | | | Sones | <0.3 | 1.0 | 2.0 | 3.0 | — |
| | | | | | | CFM/Watt | 9.6 | 5.4 | 3.6 | 3.3 | — |
| | | | | | | Watts | 5.2 | 9.3 | 13.9 | 15.3 | — |
| | | 80 | 861 | 0.25 | 17.0 | CFM | 80 | 80 | 80 | 73 | — |
| | | | | | | Sones | <0.3 | 0.9 | 1.5 | 2.5 | — |
| | | | | | | CFM/Watt | 9.7 | 6.3 | 4.5 | 4.3 | — |
| | | | | | | Watts | 8.3 | 12.7 | 17.7 | 17.1 | — |
| | | 110 | 934 | 0.31 | 20.4 | CFM | 110 | 110 | 110 | 72 | — |
| | | | | | | Sones | 0.7 | 1.2 | 2.0 | 2.5 | — |
| | | | | | | CFM/Watt | 13.3 | 8.7 | 6.2 | 4.2 | — |
| | | | | | | Watts | 8.3 | 12.7 | 17.7 | 17.1 | — |

Pending Certification for Air and Sound through the Home Ventilating Institute. Airflow data reflects all performance points that would meet or exceed the ASHRAE 62.2 minimum requirement of 50 cfm for bathroom exhaust.



SP-AP0511W and SP-AP0511WL are recognized as the Most Efficient of ENERGY STAR® 2021

Our Commitment

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

Product warranties can be found online at Greenheck.com, either on the specific product page or in the literature section of the website at Greenheck.com/Resources/Library/Literature.

Visit Greenheck.com/residential-ventilation to learn more

