

Precision Ventilation Fan
Models SP-AP0511W-1 and
SP-AP0511WL-1



The Evolution of High-Performance Ventilation

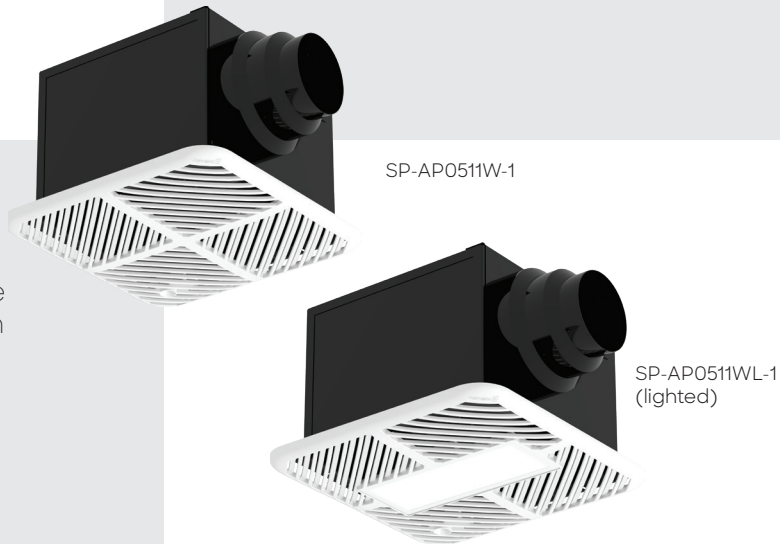
Our specification-grade ventilation fans help ensure that you meet code, exceed your customers' expectations, and eliminate costly callbacks.

Features:

- The SP-AP Series is powered by an #7 electronically commutated (EC) motor 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 EC motor can be controlled with a built-in **Precision Airflow Selector**, which allows you to dial in the airflow required to match your design or code requirements.
- Greenheck's code-compliant-verified ventilation fans are all **designed and tested (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-AP0511W/L-1 models offer **plug-and-play customization** so you can easily customize your fan in the field with three optional USB plug-in modules (humidity, motion, CO₂).
- The **Universal Duct Adapter** allows quick connections to 4 in., 5 in., and 6 in. ducting.



Additional Benefits:

- Virtually silent EC motor provides field adjustability with selectable high-speed airflow settings of 50, 80, and 110 cfm and low-speed operation from 30 to 90 cfm.
- Built-in 0-60 minute time delay offers enhanced design flexibility when paired with optional sensor modules.
- Standard two-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 retrofit installations are quick and easy.
- UL listed for tub/shower enclosure when GFCI protected.
- SP-AP0511WL-1 includes a 10W dimmable LED chip panel, 750 lumens, 3000K warm white color temperature, and Rated Life of 50,000 hours.
- Three-year warranty on EC motor and parts.
- CRD-300WT, a UL 263 certified Ceiling Radiation Damper, is compatible with both the lighted and non-lighted SP-AP-1 models.

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.

CO₂ – When CO₂ concentrations exceed the OSHA/ASHRAE recommended maximum of 1000 ppm, this sensor will turn on 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
387323



CO₂ Sensor
386693

Specification Comparison:

Features and Benefits	SPEC Grade	Residential Grade
Part Number	SP-AP	FAN
Installed Performance		
Certified CFM at 0.4 in. wg and above	✓	X
Precision Airflow Selector	✓	X
Customization		
Three (3) Plug-and-Play Options	✓	X
Convenience		
Universal Duct Adaptor (4, 5 or 6 inch)	✓	X
Control		
Humidity, Motion and CO ₂	✓	X

Performance

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-1	☆	50	828	0.26	16.4	CFM	50	50	50	50	50
						Sones	<0.3	0.7	1.5	2.0	3.5
						Watts	5.0	8.6	12.3	14.4	16.4
						CFM/Watt	11.9	7.4	5.4	4.7	3.9
		80	817	0.26	17.0	CFM	80	80	80	74	52
						Sones	<0.3	0.8	1.5	2.0	3.0
						Watts	7.0	11.3	15.4	17.0	16.1
						CFM/Watt	12.8	8.2	6.2	4.9	3.6
		110	880	0.33	21.5	CFM	110	110	110	75	54
						Sones	0.6	1.1	2.0	2.0	3.0
						Watts	10.3	15.5	21.5	17.1	16.2
						CFM/Watt	11.9	8.1	6.0	4.9	3.7
SP-AP0511WL-1	☆	50	841	0.26	16.6	CFM	50	50	50	50	43
						Sones	<0.3	0.7	1.4	2.0	2.5
						Watts	5.4	9.1	13.9	15.6	16.6
						CFM/Watt	9.8	5.9	4.4	3.8	2.6
		80	890	0.27	18.4	CFM	80	80	80	69	44
						Sones	0.4	1.0	2.0	2.5	3.0
						Watts	7.9	12.4	18.4	17.6	16.8
						CFM/Watt	10.9	7.3	4.9	4.0	3.1
		110	991	0.35	22.4	CFM	110	110	109	69	44
						Sones	0.8	1.4	2.5	2.0	2.5
						Watts	12.5	18.2	22.4	17.5	16.7
						CFM/Watt	9.6	6.7	5.7	4.0	3.0

HVI certification applies to highlighted values only. All data shown represents testing in HVI certified lab with 6 in. ducting. For additional data points, see HVI certified product directory.



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

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