SECTION 23 41 00

COMMERCIAL SPACE AIR PURIFICATION SYSTEMS

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Fellowes, Inc.; Air purification systems.
This section is based on the products of Fellowes, Inc., which is located at:1789 Norwood Ave.Itasca, IL 60143Toll Free Tel: 800-477-7940 Tel: 630-893-1600Email: [request info (info@aeramaxpro.com)](https://arcat.com/rfi?action=email&company=Fellowes%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(15861fel)%253A%2520&coid=49465&spec=15861fel&rep=&fax=)
Web: <https://www.fellowes.com/us/en>
 [ [Click Here](https://arcat.com/company/fellowes-inc-49465) ] for additional information.
Helping you be at your best.
We want people to be the best they can be. More productive, More efficient. Happier. Healthier. That's why we make office products like business machines, storage products, and workspace wellness solutions. Products by our family-owned business have been in your workplace and your home for over 100 years. They're designed to meet - and exceed - the needs of an ever-changing world. So. whether you're in a big corporate center or a cozy home office, we'll help you dominate your day. A commitment that comes from four generations of our family business.
see less

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Commercial space air purification systems.
		2. Filter Media
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 06 10 00 - Rough Carpentry.
		2. Section 26 05 00 - Common Work Results for Electrical.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. International Electrotechnical Commission (IEC):
			1. IEC 60335-1:2002/A2:2006 - Household and similar electrical appliances - Safety - Part 1: General requirements.
			2. IEC 60335-2-65:2003/A1:2008 - Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances.
		2. European Standards (EN):
			1. EN1822-1 - High efficiency air filters (EPA, HEPA and ULPA) - Part 1: Classification, performance testing, marking.
		3. United States Environmental Protection Agency and U.S. Department of Energy
		4. Underwriters Laboratories (UL):
			1. UL 867 - UL Standard for Safety Electrostatic Air Cleaners
			2. UL 2998 - Environmental Claim Validation Procedure (ECVP) for Zero Ozone Emissions from Air Cleaners.
	1. DEFINITIONS
		1. ACH - Air Changes per Hour.
		2. RH - Relative humidity
		3. VOC - Volatile Organic Compounds
	2. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.
			5. Owner's Manual.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: One representative unit of each type, size, and color shall be provided for review for a 30-day period.
		2. Product Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	4. WARRANTY
		1. Manufacturer's standard limited warranty unless indicated otherwise.
			1. AM2 Model: 3 Year Limited Warranty.
			2. Model AM3s and AM4s: 5-year Limited Warranty.

\*\* NOTE TO SPECIFIER \*\* the one year warranty extension is optional. Delete if not required.

* + - 1. One Year Warranty Extension: Available with enrollment in the Protects Program.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Fellowes, Inc., which is located at:1789 Norwood Ave.Itasca, IL 60143Toll Free Tel: 800-477-7940 Tel: 630-893-1600Email: [request info (info@aeramaxpro.com)](https://arcat.com/rfi?action=email&company=Fellowes%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(15861fel)%253A%2520&coid=49465&spec=15861fel&rep=&fax=);Web: <https://www.fellowes.com/us/en>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. COMMERCIAL AIR PURIFICATION WALL MOUNT SYSTEMS
		1. Basis of Design: Model No. 9573101. AeraMax PRO AM4 PC Air Purifier.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97 percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the H13 True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Wall. Commercial grade wall mount air purifier.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 1100 sq ft (102 sq m) spaces.
				2. Up to 5 ACH for 650 sq ft (60 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 153, 186, 224, 280, and 440.
			7. Sound Pressure Levels (dB): 42, 44, 51, 53, and 68.
			8. System Dimensions (HxWxD): 19.6 x 34.7 x 9 inches (499 x 881 x 228 mm).
			9. System Weight: 35 lbs (15.1 kg).
			10. Power Consumption (W): 8, 12, 18, 35, and 166.
			11. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			12. Electrical Safety Certification: UL.
			13. Air Intake / Outlet: Bottom and top.
			14. Control Panel: Capacitive touch and TFT LCD PureView Screen.
			15. Housing Material: UV stabilized ABS.
			16. Operating Temperature: 41 to 104 degrees F (5 to 40 degrees C).
			17. Operating Humidity: Up to 60 percent RH.
			18. Warranty: 5 year limited. An additional one year limited warranty is added when unit is registered under the Protects program.
			19. Installation Method: Wall mounted hard wired.
			20. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

EN1822-1: 2019 H13 Report No. 0681-21A-04.

* + - * 1. Air Purification Certified Testing:

SARS-CoV-2: effective in eliminating aerosolized concentration of SARS-CoV-2 by 99.9999 percent through a single air pass test of the purifier.

Tested By: University of Genoa Department of Experimental Medicine.

Filtration of Influenza A (H1N1): 99.9 percent efficacy.

Tested By: Airmid Healthgroup. Report No. ASCR092102v2.

Filtration of Coronavirus (HCoV 229E Vero-E6): Antiviral Activity Rate greater than 99.99 percent after 60 minutes.

Tested By: Shanghai WEIPU Chemical Technology Service Co., Ltd. Report No. WP-21036198-JC-01En.

* + - * 1. EnviroSmart patented tech Sensors: Measures sound, motion, and air quality using dual self-regulating lasers.

Works when it needs to, and shifts to standby when possible, saving energy and extending filter lifespan.

Sensing Modes:

Normal Mode: Automatically adjusts between fan speeds to control air quality. Ideal for most shared spaces.

Quiet Mode: Quieter fan speeds when space is occupied and all fan speeds when space is unoccupied. Ideal where noise is a concern.

* + - * 1. PureView Display: Allowing occupants to see the difference as they feel the difference.

Two high grade laser particle counters monitor air quality as it enters and exits machine, enabling screen to show air quality data in two different display modes:

Room Status: Current air quality. Percent of particles being captured in real-time.

Displays in real-time PM2.5 levels entering unit and being removed in filtration process.

Showcase VOC, odor levels, and filter change reminders.

* + - * 1. Continuous Operation: 24/7/365.
		1. Basis of Design: Model No. 9416301. AeraMax PRO AM4 Air Purifier.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97 percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the H13 True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Wall. Commercial grade wall mount air purifier.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 1100 sq ft (102 sq m) spaces.
				2. Up to 5 ACH for 650 sq ft (60 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 153, 186, 224, 280, and 440.
			7. Sound Pressure Levels (dB): 42, 44, 51, 53, and 68.
			8. System Dimensions (HxWxD): 19.6 x 34.7 x 9 inches (499 x 881 x 228 mm).
			9. System Weight: 35 lbs (15.1 kg).
			10. Power Consumption (W): 8, 12, 18, 35, and 166.
			11. Energy Star Certified: Yes.
			12. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			13. Electrical Safety Certification: UL.
			14. Air Intake / Outlet: Bottom and top.
			15. Control Panel: Capacitive touch.
			16. Housing Material: UV stabilized ABS.
			17. Operating Temperature: 41 to 104 degrees F (5 to 40 degrees C).
			18. Operating Humidity: Up to 60 percent RH.
			19. Warranty: 5 year limited. An additional one year limited warranty is added when unit is registered under the Protects program.
			20. Installation Method: Wall mounted hard wired.
			21. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

EN1822-1: 2019 H13 Report No. 0681-21A-04.

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Filtration of Coronavirus (HCoV 229E Vero-E6): Antiviral Activity Rate greater than 99.99 percent after 60 minutes.

Tested By: Shanghai WEIPU Chemical Technology Service Co., Ltd. Report No. WP-21036198-JC-01En.

* + - * 1. EnviroSmart patented tech Sensors: Measures sound, motion, and air quality using dual self-regulating lasers.

Works when it needs to, and shifts to standby when possible, saving energy and extending filter lifespan.

Sensing Modes:

Normal Mode: Automatically adjusts between fan speeds to control air quality. Ideal for most shared spaces.

Quiet Mode: Quieter fan speeds when space is occupied and all fan speeds when space is unoccupied. Ideal where noise is a concern.

* + - * 1. Continuous Operation: 24/7/365.
		1. Basis of Design: Model No. 9573001. AeraMax PRO AM3 PC Air Purifier.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97m percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the H13 True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Wall. Commercial grade wall mount air purifier.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 550 sq ft (51.10 sq m) spaces.
				2. Up to 5 ACH for 300 sq ft (27.87 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 76, 93, 112, 140, and 220.
			7. Sound Pressure Levels (dB): 38, 41, 48, 52, and 67.
			8. System Dimensions (HxWxD): 19.6 x 20.9 x 9 inches (499 x 531 x 228 mm).
			9. System Weight: 20 lbs (9.1 kg).
			10. Power Consumption (W): 5, 8, 11, 21, and 100.
			11. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			12. Electrical Safety Certification: UL.
			13. Air Intake / Outlet: Bottom and top.
			14. Control Panel: Capacitive touch and TFT LCD PureView Screen.
			15. Housing Material: UV stabilized ABS.
			16. Operating Temperature: 41 to 104 degrees F (5 to 40 degrees C).
			17. Operating Humidity: up to 60 percent RH.
			18. Warranty: 5 year limited. An additional one year limited warranty is added when unit is registered under the Protects program.
			19. Installation Method: Wall mounted hard wired.
			20. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

EN1822-1: 2019 H13 Report No. 0681-21A-04.

* + - * 1. Air Purification Certified Testing:

SARS-CoV-2: effective in eliminating aerosolized concentration of SARS-CoV-2 by 99.9999 percent through a single air pass test of the purifier.

Tested By: University of Genoa Department of Experimental Medicine.

Filtration of Influenza A (H1N1): 99.9 percent efficacy.

Tested By: Airmid Healthgroup. Report No. ASCR092102v2.

Filtration of Coronavirus (HCoV 229E Vero-E6): Antiviral Activity Rate greater than 99.99 percent after 60 minutes.

Tested By: Shanghai WEIPU Chemical Technology Service Co., Ltd. Report No. WP-21036198-JC-01En.

* + - * 1. EnviroSmart patented tech Sensors: Measure sound, motion, and air quality using dual self-regulating lasers.

Works when it needs to, and shifts to standby when possible, saving energy and extending filter lifespan.

Sensing Modes:

Normal Mode: Automatically adjusts between fan speeds to control air quality. Ideal for most shared spaces.

Quiet Mode: Quieter fan speeds when space is occupied and all fan speeds when space is unoccupied. Ideal where noise is a concern.

* + - * 1. PureView Display: Allowing occupants to see the difference as they feel the difference.

Two high grade laser particle counters monitor air quality as it enters and exits machine, enabling screen to show air quality data in two different display modes:

Room Status: Current air quality. Percent of particles being captured in real-time.

Displays in real-time PM2.5 levels entering unit and being removed in filtration process.

Showcase VOC, odor levels, and filter change reminders.

* + - * 1. Continuous Operation: 24/7/365.
		1. Basis of Design: Model No. 9416201. AeraMax PRO AM3 Air Purifier.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97 percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the H13 True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Wall. Commercial grade wall mount air purifier.
				1. Floor Stand Accessory.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 550 sq ft (51.10 sq m) spaces.
				2. Up to 5 ACH for 300 sq ft (27.87 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 76, 93, 112, 140, and 220.
			7. Sound Pressure Levels (dB): 38, 41, 48, 52, and 67.
			8. System Dimensions (HxWxD): 19.6 x 20.9 x 9 inches (499 x 531 x 228 mm).
			9. System Weight: 20 lbs (9.1 kg).
			10. Power Consumption (W): 5, 8, 11, 21, and 100.
			11. Energy Star Certified: Yes.
			12. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			13. Electrical Safety Certification: UL.
			14. Air Intake / Outlet: Bottom and top.
			15. Control Panel: Capacitive touch.
			16. Housing Material: UV stabilized ABS.
			17. Operating Temperature: 41 to 104 degrees F (5 to 40 degrees C).
			18. Operating Humidity: Up to 60 percent RH.
			19. Warranty: 5 year limited; an additional one year limited warranty added when unit is registered under the Protects program.
			20. Installation Method: Wall mounted hard wired.
			21. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

EN1822-1: 2019 H13 Report No. 0681-21A-04.

* + - * 1. Air Purification Certified Testing:

SARS-CoV-2: effective in eliminating aerosolized concentration of SARS-CoV-2 by 99.9999 percent through a single air pass test of the purifier.

Tested By: University of Genoa Department of Experimental Medicine.

Filtration of Influenza A (H1N1): 99.9 percent efficacy.

Tested By: Airmid Healthgroup. Report No. ASCR092102v2.

Filtration of Coronavirus (HCoV 229E Vero-E6): Antiviral Activity Rate greater than 99.99 percent after 60 minutes.

Tested By: Shanghai WEIPU Chemical Technology Service Co., Ltd. Report No. WP-21036198-JC-01En.

* + - * 1. EnviroSmart patented tech Sensors: Measure sound, motion, and air quality using dual self-regulating lasers.

Works when it needs to, and shifts to standby when possible, saving energy and extending filter lifespan.

Sensing Modes:

Normal Mode: Automatically adjusts between fan speeds to control air quality. Ideal for most shared spaces.

Quiet Mode: Quieter fan speeds when space is occupied and all fan speeds when space is unoccupied. Ideal where noise is a concern.

* + - * 1. Continuous Operation: 24/7/365.
		1. Basis of Design: Model No. 9540901. AeraMax PRO AM2 Air Purifier Stand. Slim Profile.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97 percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Wall. Commercial grade wall mount air purifier.
				1. Recess Kit: Model No. 9540801. ADA compliant. Hard wired.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 250 sq ft (23.23 sq m) spaces.
				2. Up to 5 ACH for 150 sq ft (13.93 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 35, 43, 51, 64, and 100.
			7. Sound Pressure Levels (dB): 45, 48, 51, 60, and 64.
			8. System Dimensions (HxWxD): 22.6 x 14 x 4.1 inches (566 x 348 x 102 mm).
			9. System Weight: 10.6 lbs (4.8 kg).
			10. Power Consumption (W): 5, 7, 11, 33, and 55.
			11. Energy Star Certified: Yes.
			12. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			13. Electrical Safety Certification: UL.
			14. Air Intake / Outlet: Sides and top.
			15. Control Panel: Capacitive touch.
			16. Housing Material: UV stabilized ABS.
			17. Operating Temperature: 50 to 104 degrees F (10 to 40 degrees C).
			18. Operating Humidity: up to 60 percent RH.
			19. Warranty: 3 year limited. An additional one year limited warranty is added when unit is registered under the Protects program

\*\* NOTE TO SPECIFIER \*\* Delete installation option not required.

* + - 1. Installation Method: Wall mounted with plug.
			2. Installation Method: Recess kit. ADA Compliant Hard wired installation.
			3. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

* + - * 1. Air Purification Certified Testing:

Filtration of Coronavirus (HCoV 229E Vero-E6): Antiviral Activity Rate greater than 99.99 percent after 60 minutes.

Tested By: Shanghai WEIPU Chemical Technology Service Co., Ltd. Report No. WP-21036198-JC-01En.

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Quiet Mode: Quieter fan speeds when space is occupied and all fan speeds when space is unoccupied. Ideal where noise is a concern.

* + - * 1. Continuous Operation: 24/7/365.
	1. COMMERCIAL AIR PURIFICATION FLOOR STAND SYSTEMS
		1. Basis of Design: Model No. 9573301. AeraMax PRO AM4S PC Air Purifier.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97 percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the H13 True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Floor Stand.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 1100 sq ft (102 sq m) spaces.
				2. Up to 5 ACH for 650 sq ft (60 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 153, 186, 224, 280, and 440.
			7. Sound Pressure Levels (dB): 42, 44, 51, 53, and 68.
			8. System Dimensions (HxWxD): 19.6 x 34.7 x 9 inches (499 x 881 x 228 mm).
			9. System Weight: 35 lbs (15.1 kg).
			10. Power Consumption (W): 8, 12, 18, 35, and 166.
			11. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			12. Electrical Safety Certification: UL.
			13. Air Intake / Outlet: Bottom and top.
			14. Control Panel: Capacitive touch and TFT LCD PureView Screen.
			15. Housing Material: UV stabilized ABS.
			16. Operating Temperature: 41 to 104 degrees F (5 to 40 degrees C).
			17. Operating Humidity: Up to 60 percent RH.
			18. Warranty: 5 year limited. An additional one year limited warranty is added when unit is registered under the Protects program.
			19. Installation Method: Floor stand constructed, plug; power outlet.
			20. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

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Displays in real-time PM2.5 levels entering unit and being removed in filtration process.

Showcase VOC, odor levels, and filter change reminders.

* + - * 1. Continuous Operation: 24/7/365.
		1. Basis of Design: Model No. 9451201. AeraMax PRO AM4S Air Purifier.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97 percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the H13 True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Floor Stand.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 1100 sq ft (102 sq m) spaces.
				2. Up to 5 ACH for 650 sq ft (60 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 153, 186, 224, 280, and 440.
			7. Sound Pressure Levels (dB): 42, 44, 51, 53, and 68.
			8. System Dimensions (HxWxD): 19.6 x 34.7 x 9 inches (499 x 881 x 228 mm).
			9. System Weight: 35 lbs (15.1 kg).
			10. Power Consumption (W): 8, 12, 18, 35, and 166.
			11. Energy Star Certified: Yes.
			12. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			13. Electrical Safety Certification: UL.
			14. Air Intake / Outlet: Bottom and top.
			15. Control Panel: Capacitive touch.
			16. Housing Material: UV stabilized ABS.
			17. Operating Temperature: 41 to 104 degrees F (5 to 40 degrees C).
			18. Operating Humidity: Up to 60 percent RH.
			19. Warranty: 5 year limited. An additional one year limited warranty is added when unit is registered under the Protects program.
			20. Installation Method: Floor stand constructed, plug; power outlet.
			21. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

EN1822-1: 2019 H13 Report No. 0681-21A-04.

* + - * 1. Air Purification Certified Testing:

SARS-CoV-2: effective in eliminating aerosolized concentration of SARS-CoV-2 by 99.9999 percent through a single air pass test of the purifier

Tested By: University of Genoa Department of Experimental Medicine.

Filtration of Influenza A (H1N1): 99.9 percent efficacy.

Tested By: Airmid Healthgroup. Report No. ASCR092102v2.

Filtration of Coronavirus (HCoV 229E Vero-E6): Antiviral Activity Rate greater than 99.99 percent after 60 minutes.

Tested By: Shanghai WEIPU Chemical Technology Service Co., Ltd. Report No. WP-21036198-JC-01En.

* + - * 1. EnviroSmart patented tech Sensors: Measures sound, motion, and air quality using dual self-regulating lasers.

Works when it needs to, and shifts to standby when possible, saving energy and extending filter lifespan.

Sensing Modes:

Normal Mode: Automatically adjusts between fan speeds to control air quality. Ideal for most shared spaces.

Quiet Mode: Quieter fan speeds when space is occupied and all fan speeds when space is unoccupied. Ideal where noise is a concern.

* + - * 1. Continuous Operation: 24/7/365
		1. Basis of Design: Model No. 9573201. AeraMax PRO AM3S PC Air Purifier.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97 percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the H13 True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Floor Stand.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 550 sq ft (51.10 sq m) spaces.
				2. Up to 5 ACH for 300 sq ft (27.87 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 76, 93, 112, 140, and 220.
			7. Sound Pressure Levels (dB): 38, 41, 48, 52, and 67.
			8. System Dimensions (HxWxD): 19.6 x 20.9 x 9 inches (499 x 531 x 228 mm).
			9. System Weight: 20 lbs (9.1 kg).
			10. Power Consumption (W): 5, 8, 11, 21, and 100.
			11. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			12. Electrical Safety Certification: UL.
			13. Air Intake / Outlet: Bottom and top.
			14. Control Panel: Capacitive touch and TFT LCD PureView Screen.
			15. Housing Material: UV stabilized ABS.
			16. Operating Temperature: 41 to 104 degrees F (5 to 40 degrees C).
			17. Operating Humidity: up to 60 percent RH.
			18. Warranty: 5 year limited. An additional one year limited warranty is added when unit is registered under the Protects program.
			19. Installation Method: Floor stand constructed, plug; power outlet.
			20. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

EN1822-1: 2019 H13 Report No. 0681-21A-04.

* + - * 1. Air Purification Certified Testing:

SARS-CoV-2: effective in eliminating aerosolized concentration of SARS-CoV-2 by 99.9999 percent through a single air pass test of the purifier.

Tested By: University of Genoa Department of Experimental Medicine.

Filtration of Influenza A (H1N1): 99.9 percent efficacy.

Tested By: Airmid Healthgroup. Report No. ASCR092102v2.

Filtration of Coronavirus (HCoV 229E Vero-E6): Antiviral Activity Rate greater than 99.99 percent after 60 minutes.

Tested By: Shanghai WEIPU Chemical Technology Service Co., Ltd. Report No. WP-21036198-JC-01En.

* + - * 1. EnviroSmart patented tech Sensors: Measures sound, motion, and air quality using dual self-regulating lasers.

Works when it needs to, and shifts to standby when possible, saving energy and extending filter lifespan.

Sensing Modes:

Normal Mode: Automatically adjusts between fan speeds to control air quality. Ideal for most shared spaces.

Quiet Mode: Quieter fan speeds when space is occupied and all fan speeds when space is unoccupied. Ideal where noise is a concern.

* + - * 1. PureView Display: Allowing occupants to see the difference as they feel the difference.

Two high grade laser particle counters monitor air quality as it enters and exits machine, enabling screen to show air quality data in two different display modes:

Room Status: Current air quality. Percent of particles being captured in real-time.

Displays in real-time PM2.5 levels entering unit and being removed in filtration process.

Showcase VOC, odor levels, and filter change reminders.

* + - * 1. Continuous Operation: 24/7/365
		1. Basis of Design: Model No. 9450001. AeraMax PRO AM3S Air Purifier.
			1. Filtration: 4-stage HEPA filtration. Captures up to 99.97 percent of particles as small as 0.3 microns, including allergens, such as pollen, dust, pet dander, and smoke.
				1. AeraSafe antimicrobial treatment applied to the H13 True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
				2. Activated Carbon Filter: Reduces odors and VOCs.
				3. Filter change notifications for both True HEPA and Carbon Filters.
				4. Ionizer. May be turned on and off.
			2. Mounting: Floor Stand.
			3. EnviroSmart Technology: Continuously monitors occupancy and room air quality and automatically adjusts to clean the air.
			4. Air Changes:
				1. Up to 3 ACH for 550 sq ft (51.10 sq m) spaces.
				2. Up to 5 ACH for 300 sq ft (27.87 sq m) spaces.
			5. Number of Fan Speeds: 5.
			6. Airflow (CFM): 76, 93, 112, 140, and 220.
			7. Sound Pressure Levels (dB): 38, 41, 48, 52, and 67.
			8. System Dimensions (HxWxD): 19.6 x 20.9 x 9 inches (499 x 531 x 228 mm)
			9. System Weight: 20 lbs (9.1 kg).
			10. Power Consumption (W): 5, 8, 11, 21, and 100.
			11. Energy Star Certified: Yes.
			12. Power Requirements: 120 Volts, 60 Hz, 2 Amps.
			13. Electrical Safety Certification: UL.
			14. Air Intake / Outlet: Bottom and top.
			15. Control Panel: Capacitive touch.
			16. Housing Material: UV stabilized ABS.
			17. Operating Temperature: 41 to 104 degrees F (5 to 40 degrees C).
			18. Operating Humidity: up to 60 percent RH.
			19. Warranty: 5 year limited. An additional one year limited warrant is added when unit is registered under the Protects program.
			20. Installation Method: Floor stand constructed, plug; power outlet.
			21. Performance Requirements:
				1. Standards Certification and Compliance:

IEC 60335-1:2002/A2:2006.

IEC 60335-2-65:2003/A1:2008.

UL 867: Report 20170213-E349375, 2017.

UL 2998: Report 1001231822-3923572.

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Filtration of Coronavirus (HCoV 229E Vero-E6): Antiviral Activity Rate greater than 99.99 percent after 60 minutes.

Tested By: Shanghai WEIPU Chemical Technology Service Co., Ltd. Report No. WP-21036198-JC-01En.

* + - * 1. EnviroSmart patented tech Sensors: Measure sound, motion, and air quality using dual self-regulating lasers.

Works when it needs to, and shifts to standby when possible, saving energy and extending filter lifespan.

Sensing Modes:

Normal Mode: Automatically adjusts between fan speeds to control air quality. Ideal for most shared spaces.

Quiet Mode: Quieter fan speeds when space is occupied and all fan speeds when space is unoccupied. Ideal where noise is a concern.

* + - * 1. Continuous Operation: 24/7/365.
		1. Basis of Design: Model No. 9540901. AeraMax PRO AM2 Air Purifier Stand. Floor stand accessory for use with AeraMax PRO AM2 Air Purifier.
			1. Allows low-profile, portable placement of AeraMax PRO AM2 on floor.
			2. Sturdy design with a quick, no tool assembly.
			3. Allows mobility for placement of air purifier in other rooms.
			4. Includes: 1 stand, 2 push screws, and assembly instructions.
	1. FILTER MEDIA
		1. Performance Requirements:
			1. Pre-Filter: Captures large particles and contaminants. Protects lifespan of other filters.
			2. Active Carbon Filter: Adsorbs odors and VOCs from air.
			3. H13 True HEPA Filter:
				1. Captures and traps 99.97 percent of airborne particles; verified HEPA capture efficiency at 0.3 microns.
				2. AM3 and AM4 2 inch HEPA: H13 True HEPA filter captures up to 99.9 percent of particles as small as 0.1 microns, including allergens such as pollen, dust, pet dander and smoke. Tested to EN1822:2019 Standards.
				3. AeraSafe antimicrobial treatment applied to the True HEPA filter inhibits the growth of odor and stain-causing microorganisms, extending the filter lifespan.
			4. Bipolar Ionizer: Improves the capture efficiency of the particulate filter
			5. No Maintenance of Filters: Cleaning or vacuuming must be required for unit
		2. Filters for AM3 and AM4 Models:
			1. Standard Filter Configuration:
				1. Carbon Filter with Pre-Filter: 3/8 inch (9.5 mm).

Active Carbon Weight: Approximately 1 lbs (0.45 kg).

Estimated Filter Life: 6 Months.

Pack Size: 4 Pack. Item Number: 9416502

* + - * 1. H13 True HEPA filter captures up to 99.9 percent of particles as small as 0.1 microns, including allergens such as pollen, dust, pet dander and smoke. Tested to EN1822:2019 Standards.
				2. H13 True HEPA: 2 inch (51 mm).

HEPA Filter Media: Approx. 27 sq ft (2.51 sq m).

Antimicrobial Treatment: Yes.

Estimated Filter Life: 12 Months.

Pack Size: 2 Pack. Item Number: 9416602

* + - 1. Hybrid Filter
				1. Filter Type: 2 inch (51 mm) Filter made of the following:

Carbon: 50 percent

Active Carbon Weight: Approximately 1 lbs (0.45 kg).

True HEPA: 50 percent.

HEPA Filter Media: Approx. 14 sq ft (1.3 sq m).

Antimicrobial Treatment: Yes.

Estimated Filter Life: 12 Months.

Pack Size: 2 Pack. Item Number: 9436902

Ships with pre-filters.

* + - 1. Full Carbon Filter (High Odor/VOC)
				1. Filter Type: 2 inch (51 mm) Carbon Filter with Pre-Filter:

Active Carbon Weight: Approximately 6 lbs (2.72 kg).

Estimated Filter Life: 12 Months.

Pack Size: 2 Pack. Item Number: 9436802

* + - 1. Pre-Filters:
				1. Filter Type: Preplacement Pre-Filters.
				2. HEPA Filter Media:
				3. Estimated Filter Life: 6 to 12 months.
				4. Pack Size: 4 pack. Item Number: 9600501.
		1. Filters for AM2 Models:
			1. Standard Filter Configuration:
				1. Filter Type: 1-3/4 inch (44.5 mm) Filter made of the following:

Carbon: 50 percent

Active Carbon Weight: Approximately 3/4 lbs (0.34 kg).

True HEPA: 50 percent.

HEPA Filter Media: Approx. 5.4 sq ft (0.50 kg).

Antimicrobial Treatment: Yes.

Estimated Filter Life: 12 Months.

Pack Size: 1 Pack. Item Number: 9544501

* + - 1. Full True HEPA Configuration:
				1. Filter Type: 1-3/4 inch (44.5 mm) True HEPA filter.

HEPA Filter Media: Approx. 12.3 sq ft (1.14 sq m).

Antimicrobial Treatment: Yes.

Estimated Filter Life: 12 Months.

Pack Size: 1 Pack. Item Number: 9544301

* + - 1. Full Carbon Filter for High Odor and VOCs
				1. Filter Type: 1-3/4 inch (44.5 mm) Carbon filter.

Active Carbon Weight: Approximately 1-1/2 lbs (0.68 kg).

Estimated Filter Life: 12 Months.

Pack Size: 1 Pack. Item Number: 9544601

* + - 1. Pre-Filters:
				1. Filter Type: Preplacement Pre-Filters.
				2. Estimated Filter Life: 6 to 12 months.
				3. Pack Size: 4 pack. Item Number: 9608401.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection, or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
	1. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION