

INTELLIGENT AIR QUALITY





#### IAQP: A Smarter Approach to Ventilation and Air Quality

As the industry embraces smarter, more targeted IAQ strategies, many professionals are reconsidering the limitations of traditional ventilation codes. Rather than relying solely on maximum outdoor air rates, forward-thinking organizations are exploring performance-based alternatives that maintain healthy air while minimizing energy waste.

The Indoor Air Quality Procedure (IAQP), outlined in ASHRAE Standard 62.1, offers an alternative to the traditional Ventilation Rate Procedure (VRP). Rather than relying solely on fixed outdoor air rates, IAQP takes a performance-based approach—one that evaluates actual contaminant levels and incorporates advanced air cleaning technologies, source control, and real-time monitoring to maintain acceptable indoor air quality.

This flexibility allows building owners and operators to design systems that are both efficient and effective, tailoring ventilation to real-world conditions rather than theoretical assumptions.

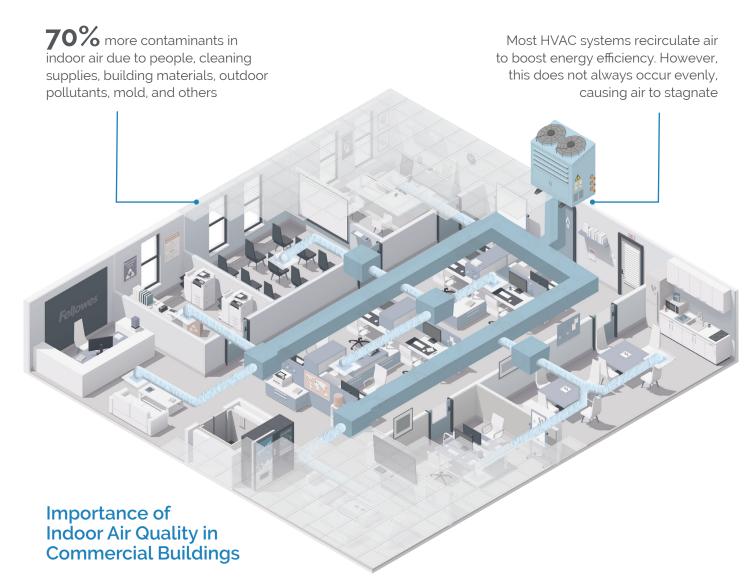
#### IAQP unlocks the potential to:

- Reduce Energy Use: Lower outdoor air requirements mean less demand on HVAC systems to heat, cool, and dehumidify incoming air—significantly reducing energy consumption.
- Improve Air Quality: Targeted filtration and air cleaning address specific pollutants, often resulting in better indoor air than with outdoor air dilution alone.
- Enhance Occupant Well-being: Cleaner air supports cognitive function, comfort, and overall health—key factors in productivity and satisfaction.
- Support Sustainability Goals: By optimizing ventilation strategies, IAQP helps organizations reduce their carbon footprint and meet green building certification standards.
- Enable Data-Driven Design: Real-time contaminant monitoring ensures performance and compliance over time, moving beyond "set it and forget it" ventilation.



#### The Insight of Air Monitoring

There are over 5.9 million commercial buildings, totaling over 97 billion square feet in the US alone. In a post-COVID environment, many organizations and property managers are looking to redesign, reconfigure and reimagine their spaces. These new spaces may have different ventilation and air quality requirements than what they were originally designed for.



While this may seem straightforward, building managers are challenged with trying to balance thermal comfort, increased ventilation and improved IAQ while trying to manage the bottom line.

In January 2021, ASHRAE provided updated COVID-19 guidance that indicated ventilation, filtration, and air cleaners could be combined to deliver "equivalent air changes" to achieve improved IAQ.

## It's time to reevaluate the technologies available to solve these challenges.

Fellowes recognizes the need for a new category of IAQ—one that re-imagines air purification as more than just a hardware upgrade. This new approach must offer the flexibility and efficacy of individual air purifiers, the sophistication to work alongside HVAC systems, and—with BMS integration—the intelligence to drive building-wide action through connected air monitoring and automation.

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#### INTELLIGENT AIR QUALITY

Fellowes Array is a first-of-its-kind indoor air quality solution that brings together advanced sensing, real-time data, and responsive purification across your entire facility.

Powered by patented EnviroSmart+™ Technology, Array continuously monitors occupancy and air quality in every zone — adjusting airflow and filtration to address contaminants as conditions change. With H13 True HEPA filtration, it delivers 3–5 additional equivalent air changes per hour (eACH), enhancing ventilation effectiveness while reducing strain on HVAC systems and energy use.

Unlike standalone units, Array connects across your building to work in sync with your existing HVAC.

With access to the Viewpoint dashboard, you gain real-time visibility into air quality performance across every space. Together with Array, you're empowered to:

- Monitor indoor air quality with room-by-room precision
- Mitigate airborne risks based on real-time conditions
- Manage performance at scale across your entire portfolio

For facilities looking to further integrate IAQ into their building operations, optional BMS integration unlocks deeper system connectivity, centralized control and further efficiencies.

Array sets a new standard for intelligent air quality — helping you create healthier, more efficient spaces.







## **Energy Cost Savings**

Array enhances indoor air quality while reducing energy demand. With high-efficiency filtration and reduced reliance on energy-intensive ventilation, it supports HVAC efficiency, lowers costs, and delivers cleaner air without unnecessary strain on your system. With BMS integration, you can unlock even greater efficiencies and cost savings through automated, data-driven ventilation adjustments.

#### Informed Ventilation, Energy Savings

Array reduces the need for increased ventilation rates by leveraging treated, localized air rather than continuously brining in and conditioning large volumes of outdoor air. By providing real-time IAQ data. Array enables HVAC systems to make precise, demand-based adjustments, optimizing airflow and reducing unnecessary energy consumption. This not only lowers operational costs but also extends equipment lifespan, improves overall efficiency, and ensures a healthier indoor environment without overburdening HVAC systems.

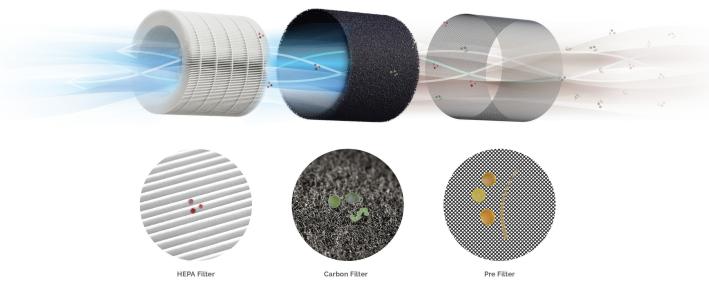


# Enabling More Efficient HVAC System Design

By easing the HVAC system's burden of IAQ management, Array helps create more efficient HVAC system designs over time. Its localized air purification increases equivalent air exchanges, reducing the need for oversized HVAC equipment and excessive ventilation rates while still meeting modern air quality standards. This leads to lower energy consumption, reduced capital costs, and a more sustainable approach to maintaining indoor air quality.



Array's H13 True HEPA filters provide effective air purification without the high energy demands of MERV 13 ventilation. Array's localized purification captures airborne contaminants at the source even more effectively. This reduces the need for HVAC systems to increase forced-air filtration through denser filter materials,





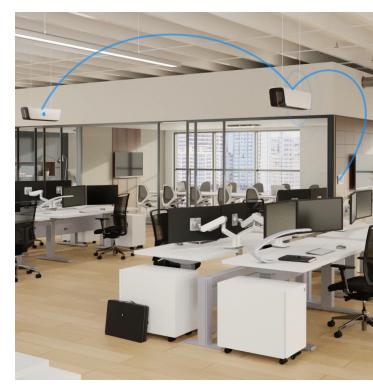


## **Create Healthy Buildings**

Array combines advanced filtration, intelligent automation, and real-time monitoring to create healthier buildings. With H13 True HEPA filtration, adaptive air management, and a centralized dashboard, Array ensures cleaner air and greater control over your indoor environment.

# Intelligent Sense and React Technology

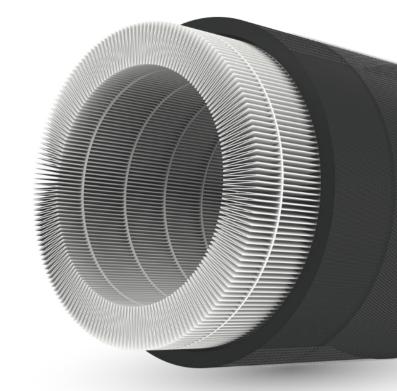
Array's patented Sense and React technology, EnviroSmart+™, continuously monitors the environment for changes in occupancy density and space conditions, automatically adjusting units as needed. By sharing sensor data between units, Array enables a coordinated proactive response, ensuring optimal air quality across the entire space while alerting your team to IAQ changes in real time.



## Clean Air Ensured with Effective & Efficient Filtration

Our 3-in-1 filter is 99.95% effective in capturing particles as small as 0.1 microns including viruses, allergens and germs. The mixed-flow fan design maximizes air flow while delivering quiet operation.

- Pre-Filter
  Captures larger particles like hair, pollen, and dust
- Activated Carbon Filter
  Absorbs small particles like volatile organic compounds (VOCs), odors and some gases
- 3 H13 True HEPA Filter
  Captures 99.95% of particles as small as 0.1
  microns like germs, viruses, allergens, smoke,
  and bacteria

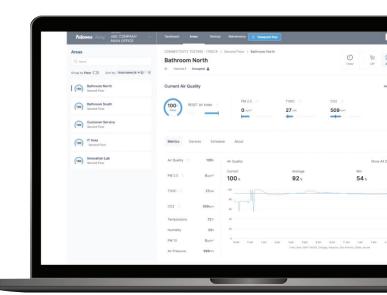


#### Real-Time Data And Trend Visualization

Array's sensors continuously collect and transmit real-time air quality data, offering a clear picture of how air moves, degrades, and is ultimately purified. To make this data easy to interpret and act on, Array connects to Viewpoint, a secure, cloudbased dashboard where all IAQ insights come together.

With intuitive monitoring and display technologies, Viewpoint delivers real-time information on indoor air quality, including alerts, trends, and actionable insights. It's included with every Array device at no extra cost. All units connect securely across your building via LTE.\*

Harness the power of real-time IAQ insights and unlock even more operational efficiencies by bringing Viewpoint Plus data straight into your building's control system through BMS Integration.



## Supports Healthy Building Certifications







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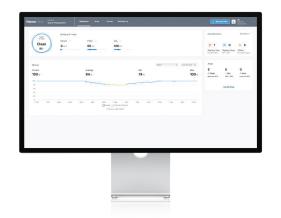
#### Simple Implementation, Easy Operation

Array simplifies air quality management with a variety of installation options, easy scalability, and hassle-free maintenance. Its duct-free range of solutions fit any space, while real-time monitoring and intelligent automation ensure optimized IAQ with minimal effort.



#### Simple Integration

Viewpoint Plus data easily integrates into your BMS through a single gateway.





### **Unique Capabilities**

Array's unique BACnet write commands enables direct control of unit features.

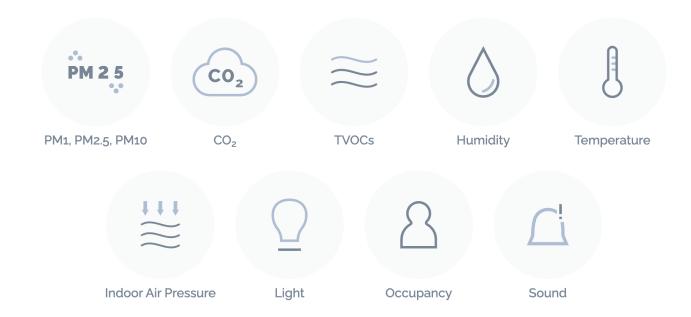
#### **Optimized Performance**

Having a full suite of IAQ sensor data points integrated into your BMS helps optimize overall HVAC performance for greater IAQ control in each zone.



#### Array Units Include a Full Suite of IAQ Monitor & Comfort Sensors

Array's advanced sensors comprehensively monitor air quality, environmental conditions, and occupant comfort to intelligently optimize indoor environments



#### A Hassle-Free System

Array is hassle-free to maintain, with front access and tool-free annual filter replacement that can be performed by virtually anyone.



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## **Built For Your Building**

The complete line of Fellowes Array products work together to provide an intuitive, coordinated response to your air quality circumstances – all designed with a clean, minimalist aesthetic.

Thanks to a range of configurations and installation options, Array is designed to complement and enhance any space.



Array® Ceiling
Clean Air from Above



Array® Lookout
The Invisible, Now Visible



Array<sup>®</sup> Relay
Transmits data from Fellowes
Viewpoint Plus to your BMS/BAS



Array® Recess
High Performance, Low Profile



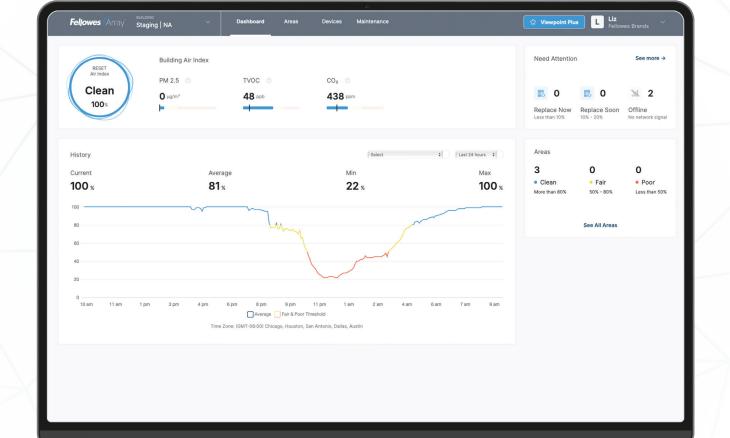
Array® Recess UVC Light-Powered Disinfection



Array® Wall
Wall to Wall Protection



**Array® Stand**Designed for Maximum Flexibility





Array® Signal Monitor Any Space



Designed to integrate into open ceiling spaces

- •Fellowes 3-in-1 filter (prefilter, carbon and H13 True HEPA filtration) is 99.95% effective in capturing molecules as small as 0.1 microns including viruses, allergens and germs and is designed to last for one full year
- Array Ceiling's energy efficient design includes our unique mixed flow fan, designed to maximize air flow while delivering quiet operation
- ·Suspends from ceilings as high as 20'
- •EnviroSmart+™ Technology includes a full suite of comfort and control sensors to continuously monitor contaminants, room occupancy and noise levels and proactively respond to changes. Our integrated suite of indoor air quality (IAQ) sensors includes particulates (PM10, PM2.5, PM1), occupancy, temperature, humidity (RH), carbon dioxide (CO2), pressure, and TVOCs
- •Access to the Array® Viewpoint cloud-based dashboard, designed to give users comprehensive visibility into their building's air quality, is included at no charge. All units connect through building-wide, secure LTE\*
- •Designed and engineered for long term use backed with 5-year warranty



#### **Area Coverage**

10 Foot Ceilings

**1,430**Square Feet

858
Square Feet

12 Foot Ceilings

\_\_\_\_ 3 ACH \_\_\_\_\_ **1,191** Square Feet

715
Square Feet





### High Performance, Low Profile

Inconspicuous air filtration that beautifully integrates with the majority of standard grid ceiling systems.

- Fellowes 3-in-1 filter (prefilter, carbon and H13 True HEPA filtration) is 99.95% effective in capturing molecules as small as 0.1 microns including viruses, allergens and germs and is designed to last for one full year
- · Array Recess AR2 includes dual filters
- Array Recess units' energy efficient design includes our unique mixed-flow fan, designed to maximize air flow while delivering quiet operation
- EnviroSmart+™ Technology includes a full suite of comfort and control sensors to continuously monitor contaminants, room occupancy and noise levels to proactively respond to changes. Our integrated suite of indoor air quality (IAQ) sensors includes particulates (PM10, PM2.5, PM1), occupancy, temperature, humidity (RH), carbon dioxide (CO2), pressure, and TVOCs
- Access to the Array® Viewpoint cloud-based dashboard, designed to give users comprehensive visibility into their building's air quality, is included at no charge. All units connect through building-wide, secure LTE\*
- Designed and engineered for long term use backed with 5-year warranty







## **Area Coverage**

8 Foot Ceilings

750
Square Feet

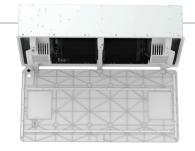
- 5 ACH — 450 Square Feet

**1,500**Square Feet

900 Square Feet

Recess AR1

Recess AR2



Array's hospital grade H13 True HEPA filtration is 99.95% effective in capturing molecules as small as 0.1 microns including allergens, viruses, and germs.

\*See back cover for details.



#### Wall to Wall Protection

Array™ Wall can be installed on a range of wall materials with minimal installation requirements.

- •Clean, subtle design includes integrated Lookout display providing Air Quality status to users of an area
- Fellowes 3-stage filtration (pre-filter, carbon, and H13 True HEPA) Effectively removes at least 99.95% of particles as small as 0.1 microns, including allergens, such as pollen, dust, pet dander, and smoke
- Array AS2 and AW2 include dual hybrid filters
- Equipped with our EnviroSmart+™ Technology which includes a full suite of comfort and control sensors to continuously monitor contaminants, room occupancy and noise levels to proactively respond to changes. Our integrated suite of indoor air quality (IAQ) sensors includes particulates (PM10, PM2.5, PM1), occupancy, temperature, humidity (RH), carbon dioxide (CO2), pressure, and TVOCs
- Access to the Array® Viewpoint cloud-based dashboard, designed to give users comprehensive visibility into their building's air quality, is included at no charge. All units connect through building-wide, secure LTE\*
- Designed and engineered for long term use backed with 5-year warranty







#### **Area Coverage**

Wall AW1/Stand AS1

GOO Square Feet

360
Square Feet

8 Foot Ceilings

Wall AW2/Stand AS2

**1,000**Square Feet

600
Square Feet

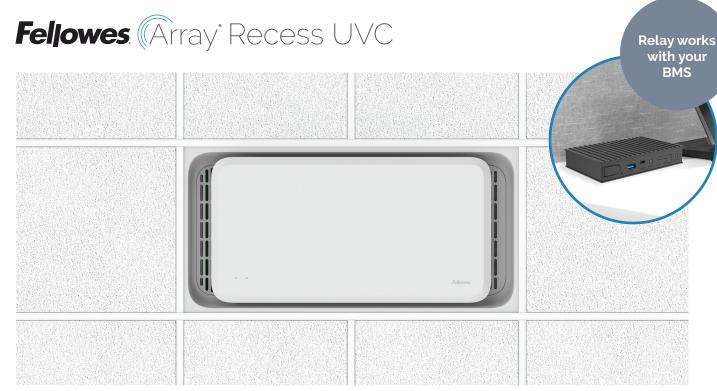
8 Foot Ceilings

# Designed for Maximum Flexibility

Array® Stand can be rapidly moved and repositioned wherever it is needed next, no installation required.

positioned needed next, required.

Integrate with BMS via Relay



### **Light-Powered Disinfection**

Sophisticated flush-mount design seamlessly installs into double ceiling tile.

- Clean, subtle design offers integrated and seamless suspended installation in standard grid ceiling and is designed for occupied spaces. The self-contained UV-C chamber is hidden in the ceiling plenum
- •Our proprietary and patent-pending ultra-high reflectivity chamber utilizes a shielded all metal chamber, designed to last for the life of the unit
- Array Recess UVC delivers up to 98.1% Single Pass Kill Rate\* and is specially designed to provide dedicated and continuous 24x7 ultraviolet protection against airborne bacteria, viruses, and mold, all while safely hidden overhead and out of sight.
- $\cdot$ 9,000-hour bulb only needs changing once per year
- Includes a pre-filter that keeps the UV chamber free of dust and hair
- •Bottom panel access for easy bulb and filter replacement
- ·Access to the Array® Viewpoint cloud-based



#### Area Coverage

8 Foot Ceilings

300 Square Feet **180**Square Feet

dashboard, designed to give users comprehensive visibility into their building's air quality, is included at no charge. All units connect through building-wide, secure LTE\*\*

 Designed and engineered for long term use backed with 3-year warranty



### **Monitor Any Space**

Signal provides remote monitoring for areas without a dedicated air purifier. Place in smaller offices, transitional areas, or anywhere else without proper ventilation or air monitoring.

- ·Our Signal monitoring device provides additional IAQ monitoring as part of your overall Array remediation network of air purifiers, or it can operate without connected air purifiers as a standalone IAQ monitor
- •Our integrated suite of indoor air quality (IAQ) sensors includes particulates (PM10, PM2.5, PM1), temperature, humidity (RH), carbon dioxide (CO2), pressure, and TVOCs
- · Signal connects through building-wide, secure LTE to the Array Viewpoint cloud-based dashboard at no charge. Viewpoint gives users comprehensive visibility into their building's air quality\*
- ·Sleek design to integrate into your building, offered in both in-wall mount and desktop options
- •Designed and engineered for long term use backed with 3-year warranty











#### The Invisible, Now Visible

Lookout's wall-mounted display shows precise air quality status and filtration progress. Now, anyone can have confidence that their office, room, or workspace is safe.

- · With Lookout, you can control Array units assigned to a designated area
- •Includes a Quiet button that puts all units in the same room into Quiet Mode
- ·Lookout offers a sleek design to integrate into your Array units, offered in both wall mount and desktop options
- · Lookout connects through building-wide, secure LTE to the Array Viewpoint cloud-based dashboard at no charge. Viewpoint gives users comprehensive visibility into their building's air quality\*
- Designed and engineered for long term use backed with 3-year warranty



## Fellowes. (Array Viewpoint

#### **Data-Informed Decisions**

Designed with facilities and operations managers in mind, Viewpoint provides comprehensive air quality data for all of your connected spaces from an easy-to-use dashboard, available with every Array device at no charge. All units connect through building-wide, secure LTE.\*

Track trends, monitor energy usage, and evolve your air quality strategy – all from one place.

#### Viewpoint features include:

- Sensor Sharing between units assigned to an area
- Remote Array unit controls
- Current RESET Air Index at the building, area, or device level
- Device status and filter change notifications
- Multi-level Viewpoint Account Management

## Additional features included with Viewpoint Plus subscription service:

- Timers and scheduling for any unit in your system
- Current and historical data to analyze trends and identify IAQ concerns
- Data export capabilities
- Unit maintenance notifications and advanced troubleshooting
- Real-time filter life measurement and replace history
- Community dashboard
- BMS integration



"See back cover for details.

BACnet ® is a trademark of ASHRAE 25







Specs		Array Ceiling AC2		Array Recess AR1			Array Recess AR2			
Area Coverage (SQFT)		Ceiling Height (ft)		Ce	Ceiling Height (ft)			Ceiling Height (ft)		
		10	12	8	10	12	8	10	12	
	1	4,290	3,575	2,250	1,800	1,500	4,500	3,600	3,000	
eACH	3	1,430	1,191	750	600	500	1,500	1,200	1,000	
	5	858	715	450	360	300	900	720	600	
Produ	ct code									
Fan Speeds (CFM)		136, 186, 333, 504, 715		60, 80, 134, 201, 300			114, 153, 264, 391, 600			
Sound pressure levels, each fan speed (dB)		29, 31, 43, 48, 56		24, 26, 33, 44, 50			26, 27, 36, 47, 54			
Power Requirements (V/Hz/A)		AC120V/60Hz/1.2A		AC120V/60Hz/0.8A			AC120V/60Hz/1.5A			
Power Consumption (Watts)		11, 13, 24, 26, 120		7, 8, 13, 24, 62			9, 12, 23, 45, 120			
EnviroSmart+™ Technology (particulates (PM10, PM2.5, PM1), occupancy, temperature, humidity (rH), carbon dioxide (CO2), pressure, and TVOCs)		<b>✓</b>		<b>✓</b>			<b>✓</b>			
IoT Connectivity		LTE		LTE			LTE			
Warranty		5		5			5			
Product Dimensions (L x W x H) (in)		49 × 12.7 × 14.3		23.4 × 23.4 × 12.4			47.3 × 23.6 × 12.4			
Weight (lbs)		47		40.3			76.1			
Electrical Connection		Plug		Hardwire			Hardwire			
UL507		<b>✓</b>		✓			<b>✓</b>			
CARB		<b>✓</b>		<b>✓</b>			<b>✓</b>			
FCC		<b>✓</b>		<b>✓</b>		<b>✓</b>				
EN1822M		<b>✓</b>		<b>✓</b>			<b>✓</b>			
H1N1		<b>✓</b>		✓			<b>✓</b>			
Rhinovirus		<b>✓</b>		<b>✓</b>			<b>✓</b>			
SARS-CoV-2		<b>√</b>		<b>─</b>			<b>✓</b>			

#### Protect your Purifier!

To ensure stated performance and efficacy of your Fellowes air purifier, only use genuine Fellowes branded filters. Off-brand filters may damage and affect the performance of your unit and void your unit's warranty.







Filter Type	3-in-1 360° (Pre-Filter, Carbon, H13 True HEPA)	3-in-1 360° (Pre-Filter, Carbon, H13 True HEPA)	3-in-1 360° (Pre-Filter, Carbon, H13 True HEPA)		
Filter Code					
Filter Rating H13 True HEPA		H13 True HEPA	H13 True HEPA		
Filter Efficiency	99.95% @ 0.1 microns	99.95% @ 0.1 microns	99.95% @ 0.1 microns		
Antimicrobial Coating 🗸		✓	✓		
Estimated Filter Life 1 Year		1 Year	1 Year		







Specs		Array Recess AR1 UVC			Array AW1 & AS1			Array AW2 & AS2			
Area Coverage (SQFT)		Ceiling Height (ft)			Ceiling Height (ft)			Ceiling Height (ft)			
		8	10	12	8	10	12	8	10	12	
1		900	720	600	1,800	1,440	1,200	3,000	2,440	2,000	
eACH	3	300	240	200	600	480	400	1,000	800	666	
	5	180	144	120	360	288	240	600	480	400	
Produc	Product code										
Fan Spe	Fan Speeds (CFM)		120			68, 90, 110, 140, 240			120, 150, 200, 260, 400		
	Sound pressure levels, each fan speed (dB)		43			AS1: 29, 34, 38, 44, 57 AW1: 28, 33, 38, 44, 56			AS2: 28, 34, 39, 45, 58 AW2: 27, 33, 37, 44, 58		
Power Require	Power Requirements (V/Hz/A)		AC120V/60Hz/0.9A			AC120V/60Hz/0.9A			AC120V/60Hz/1.5A		
Power Consu	Power Consumption (Watts)		77			8, 11, 16, 28, 107			10, 14, 23, 41, 173		
(particulates (PI occupancy, tempe	EnviroSmart+™ Technology (particulates (PM10, PM2.5, PM1), occupancy, temperature, humidity (rH), carbon dioxide (CO2), pressure, and TVOCs)		_		✓			✓			
IoT Con	IoT Connectivity		LTE			LTE			LTE		
War	Warranty		3			5			5		
	Product Dimensions (L x W x H) (in)		47.2 × 23.3 × 11			20.9 x 9.7 x 19.6 (AW1) 20.9 x 10.2 x 22.8 (AS1)			34.7 × 9.4 × 19.7 (AW2) 34.7 × 10.6 × 22.8 (AS2)		
Weigl	Weight (lbs)		62.6			20 (AW1), 25 (AS1)			35 (AW2), 40 (AS2)		
Electrical (	Electrical Connection		Hardwire			Hardwire (AW1), Plug (AS1)			Hardwire (AW2), Plug (AS2)		
UL507		<b>✓</b>			<b>✓</b>			✓			
CARB		<b>✓</b>			<b>✓</b>			<b>✓</b>			
FCC		_			<b>✓</b>			<b>✓</b>			
EN1822M		_			<b>✓</b>			✓			
H1N1		<b>✓</b>			<b>✓</b>			✓			
Rhine	Rhinovirus		<b>√</b>			<b>✓</b>			<b>✓</b>		
SARS	SARS-CoV-2		_			<b>✓</b>			<b>✓</b>		







Filter Type**	UVC Bulb Bundle**	Hybrid Filter (Carbon, H13 True HEPA)	Hybrid Filter (Carbon, H13 True HEPA)		
Filter Code					
Filter Rating	_	H13 True HEPA	H13 True HEPA		
Filter Efficiency	Up to 98.1% Single Pass Kill Rate***	99.95% @ 0.1 microns	99.95% @ 0.1 microns		
Antimicrobial Coating	_	✓	✓		
Estimated Filter Life	1 Year/9000 Hours	1 Year	1 Year		

<sup>&</sup>quot;Includes Pre-Filter"
"Based on 98.1% Single Pass Reduction in Staphylococcus epidermidis bacteria. The term "Kill" is used to represent the inactivation of pathogens from the UV-C light.



#### Fellowes: A Global Leader In Localized Indoor Air Quality Solutions



#### We Know Air Purification

With over 15 years dedicated to breakthrough innovation, scientific testing, and unparalleled customer experience, Fellowes has become the leader in commercial IAQ.



#### Quality, Performance, and World-Class Customer Service

Fellowes is a private, familyowned manufacturing business. Established in 1917, now in our 4th generation of leadership.



## Designed and Engineered in the U.S.

Designed and engineered in our Itasca, IL headquarters, Fellowes proudly provides proprietary IAQ solutions across the globe.



## Customized Planning and Pricing

Every project matters.
Customized space planning,
pricing, and services available
through our IAQ experts.



Scan to access the Viewpoint Terms & Conditions

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