AirByDesign

Smart, Highly Efficient HEPA

Air Purifier | Smart

Indoor Air Quality is a hot topic today, and for good reason. Although indoor air quality has always been important, AirByDesign understands that providing clean and safe indoor air is vital, perhaps now more than ever, to families, businesses, and communities.

Our board-certified AirByDesign air purifiers use only the latest in air filtration technology to provide solutions to improve your building's indoor air quality. We've designed a product for every indoor environment including high-density spaces like offices and classrooms, and small, low-traffic spaces like homes and hotel rooms. Each of our purifiers is equipped with the same layers of control. A HEPA filter (99.97% effective), a carbon filter, UV-C lighting, and plasma.

These controls reduce and eliminate harmful viruses, dust, allergens, other contaminants, and even unpleasant odors. So, take a deep breath and trust that your building's occupants are breathing the cleanest, and safest, air possible.

Standing Unit | Smart

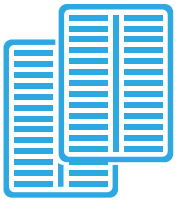
What's Included?

- 2 G4 MERV 9 Pre-Filters
- 2 HEPA Filters (99.97% Effective)
- UVC Lighting
- Odor Control
- Carbon Filter
- Smart Touch Panel w/ Lockout

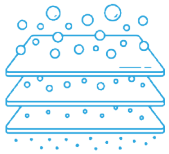
Additional Features

- Wall anchors
- Casters with brakes
- baffles to reduce noise from system

Layers of Controls

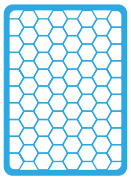


G4 MERV 9 Pre-Filter



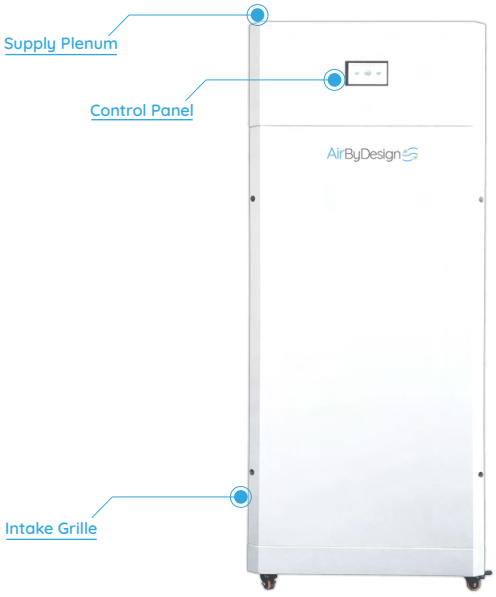
H13 HEPA

UV-C Lamp



Carbon

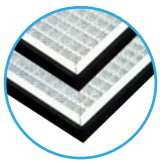
Operation | Smart



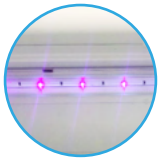
Control Panel
The state-of-the-art control panel makes viewing the status and modifying the settings of your Pro easy.

Intake Grille
Indoor air is pulled through the bottom intake grille for purification.

Supply Plenum
Sterilized and purified air passes through a final filter then to the top discharge grille and into the room.



G4 MERV 9 Pre-Filter
The Woven Nylon Pre-Filter removes larger contaminents from entering the HEPA filter.



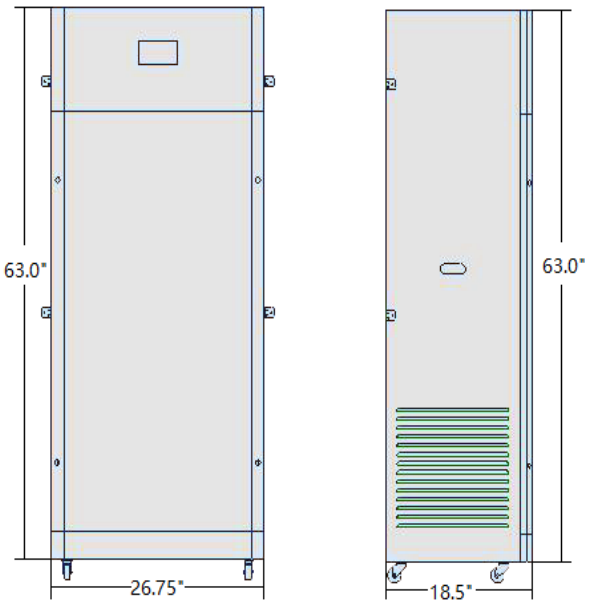
UV-C Lamp
UV-C germicidal lamps further destroy bacteria and viruses in the air.

Activated Carbon
The Carbon Filter is a large capacity filter with fast absorption and desorption speeds.

HEPA Filter
The H13 HEPA Filter is up to 99.97% efficient at removing the remaining particulate from the air.

1. Air is pulled through the bottom return air grilles on either side of the unit and passes through the G4 Merv 9 pre-filter, where larger particulates are removted.
2. Air passes through the blower, and is diverted to the sides of the cabinet to the two 99.99% H13 HEPA filters.
3. Air contines through the center of the cabinet, over the (optional) UV-C lamp, where the air is sterilized.
4. Sterilized and filtered air passes through the top filter, through the discharge grille and into the room.

Dimensions and Specifications | Smart



AirByDesign Smart (H13 HEPA + UV)

Electrical	V/Hz/Ph	120 / 60 / 1
Connection	Type	3-Prong 120V plug with 8' wire
Airflow (CFM)	High / Medium / Low	1,058 / 832 / 692
Max Power Usage	Watts	369
Sound Level dBA	H - L Range	56 – 43
Main Filter	Type	2 ea. H13 HEPA 99.7% Efficiency
Pre-Filter	Type	2 ea. G4 MERV 9
Controls	Type	Unit Mounted Touchscreen w/ Lockout
Dimensions	H x W x D	63.0" x 26.75" x 18.5"
Cabinet	Material	Powder Coated Steel
Weight	Lbs	180

The AirByDesign **Smart** is a low profile HEPA air scrubber that is designed to remove indoor particles as small as 0.3 micormeters (µm) in diameter, with two 99.97% efficient H13 HEPA filter, while maintaining a low operating sound level with a high efficiency motor.

Typical installations for the AirByDesign **Smart** includes:

- Classrooms
- Medical Offices
- Hotel Rooms
- Motel Rooms
- Independent Care Facility Rooms
- Retail Stores
- Modular Buildings
- Student Housing

Unit Air Changes | Smart

Room Depth (Feet) \ Room Width (Feet)	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
20	15.9	14.4	13.2	12.2	11.3	10.6	9.9	9.3	8.8	8.4	7.9	7.6	7.2	6.9	6.6	6.3
22	14.4	13.1	12.0	11.1	10.3	9.6	9.0	8.5	8.0	7.6	7.2	6.9	6.6	6.3	6.0	5.8
24	13.2	12.0	11.0	10.2	9.4	8.8	8.3	7.8	7.3	7.0	6.6	6.3	6.0	5.8	5.5	5.3
26	12.2	11.1	10.2	9.4	8.7	8.1	7.6	7.2	6.8	6.4	6.1	5.8	5.5	5.3	5.1	4.9
28	11.3	10.3	9.4	8.7	8.1	7.6	7.1	6.7	6.3	6.0	5.7	5.4	5.2	4.9	4.7	4.5
30	10.6	9.6	8.8	8.1	7.6	7.1	6.6	6.2	5.9	5.6	5.3	5.0	4.8	4.6	4.4	4.2
32	9.9	9.0	8.3	7.6	7.1	6.6	6.2	5.8	5.5	5.2	5.0	4.7	4.5	4.3	4.1	4.0
34	9.3	8.5	7.8	7.2	6.7	6.2	5.8	5.5	5.2	4.9	4.7	4.4	4.2	4.1	3.9	3.7
36	8.8	8.0	7.3	6.8	6.3	5.9	5.5	5.2	4.9	4.6	4.4	4.2	4.0	3.8	3.7	3.5
38	8.4	7.6	7.0	6.4	6.0	5.6	5.2	4.9	4.6	4.4	4.2	4.0	3.8	3.6	3.5	3.3
40	7.9	7.2	6.6	6.1	5.7	5.3	5.0	4.7	4.4	4.2	4.0	3.8	3.6	3.5	3.3	3.2
42	7.6	6.9	6.3	5.8	5.4	5.0	4.7	4.4	4.2	4.0	3.8	3.6	3.4	3.3	3.1	3.0
44	7.2	6.6	6.0	5.5	5.2	4.8	4.5	4.2	4.0	3.8	3.6	3.4	3.3	3.1	3.0	2.9
46	6.9	6.3	5.8	5.3	4.9	4.6	4.3	4.1	3.8	3.6	3.5	3.3	3.1	3.0	2.9	2.8
48	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.9	3.7	3.5	3.3	3.1	3.0	2.9	2.8	2.6
50	6.3	5.8	5.3	4.9	4.5	4.2	4.0	3.7	3.5	3.3	3.2	3.0	2.9	2.8	2.6	2.5

AC/H with Unit on High Speed, with a 10 Foot Ceiling

Room Depth (Feet) \ Room Width (Feet)	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
20	12.5	11.3	10.4	9.6	8.9	8.3	7.8	7.3	6.9	6.6	6.2	5.9	5.7	5.4	5.2	5.0
22	11.3	10.3	9.5	8.7	8.1	7.6	7.1	6.7	6.3	6.0	5.7	5.4	5.2	4.9	4.7	4.5
24	10.4	9.5	8.7	8.0	7.4	6.9	6.5	6.1	5.8	5.5	5.2	5.0	4.7	4.5	4.3	4.2
26	9.6	8.7	8.0	7.4	6.9	6.4	6.0	5.6	5.3	5.1	4.8	4.6	4.4	4.2	4.0	3.8
28	8.9	8.1	7.4	6.9	6.4	5.9	5.6	5.2	5.0	4.7	4.5	4.2	4.1	3.9	3.7	3.6
30	8.3	7.6	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.4	4.2	4.0	3.8	3.6	3.5	3.3
32	7.8	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.3	4.1	3.9	3.7	3.5	3.4	3.3	3.1
34	7.3	6.7	6.1	5.6	5.2	4.9	4.6	4.3	4.1	3.9	3.7	3.5	3.3	3.2	3.1	2.9
36	6.9	6.3	5.8	5.3	5.0	4.6	4.3	4.1	3.9	3.6	3.5	3.3	3.2	3.0	2.9	2.8
38	6.6	6.0	5.5	5.1	4.7	4.4	4.1	3.9	3.6	3.5	3.3	3.1	3.0	2.9	2.7	2.6
40	6.2	5.7	5.2	4.8	4.5	4.2	3.9	3.7	3.5	3.3	3.1	3.0	2.8	2.7	2.6	2.5
42	5.9	5.4	5.0	4.6	4.2	4.0	3.7	3.5	3.3	3.1	3.0	2.8	2.7	2.6	2.5	2.4
44	5.7	5.2	4.7	4.4	4.1	3.8	3.5	3.3	3.2	3.0	2.8	2.7	2.6	2.5	2.4	2.3
46	5.4	4.9	4.5	4.2	3.9	3.6	3.4	3.2	3.0	2.9	2.7	2.6	2.5	2.4	2.3	2.2
48	5.2	4.7	4.3	4.0	3.7	3.5	3.3	3.1	2.9	2.7	2.6	2.5	2.4	2.3	2.2	2.1
50	5.0	4.5	4.2	3.8	3.6	3.3	3.1	2.9	2.8	2.6	2.5	2.4	2.3	2.2	2.1	2.0

AC/H with Unit on Medium Speed (estimated), with a 10 Foot Ceiling

Room Depth (Feet) \ Room Width (Feet)	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
20	10.4	9.4	8.7	8.0	7.4	6.9	6.5	6.1	5.8	5.5	5.2	4.9	4.7	4.5	4.3	4.2
22	9.4	8.6	7.9	7.3	6.7	6.3	5.9	5.6	5.2	5.0	4.7	4.5	4.3	4.1	3.9	3.8
24	8.7	7.9	7.2	6.7	6.2	5.8	5.4	5.1	4.8	4.6	4.3	4.1	3.9	3.8	3.6	3.5
26	8.0	7.3	6.7	6.1	5.7	5.3	5.0	4.7	4.4	4.2	4.0	3.8	3.6	3.5	3.3	3.2
28	7.4	6.7	6.2	5.7	5.3	4.9	4.6	4.4	4.1	3.9	3.7	3.5	3.4	3.2	3.1	3.0
30	6.9	6.3	5.8	5.3	4.9	4.6	4.3	4.1	3.8	3.6	3.5	3.3	3.1	3.0	2.9	2.8
32	6.5	5.9	5.4	5.0	4.6	4.3	4.1	3.8	3.6	3.4	3.2	3.1	2.9	2.8	2.7	2.6
34	6.1	5.6	5.1	4.7	4.4	4.1	3.8	3.6	3.4	3.2	3.1	2.9	2.8	2.7	2.5	2.4
36	5.8	5.2	4.8	4.4	4.1	3.8	3.6	3.4	3.2	3.0	2.9	2.7	2.6	2.5	2.4	2.3
38	5.5	5.0	4.6	4.2	3.9	3.6	3.4	3.2	3.0	2.9	2.7	2.6	2.5	2.4	2.3	2.2
40	5.2	4.7	4.3	4.0	3.7	3.5	3.2	3.1	2.9	2.7	2.6	2.5	2.4	2.3	2.2	2.1
42	4.9	4.5	4.1	3.8	3.5	3.3	3.1	2.9	2.7	2.6	2.5	2.4	2.2	2.1	2.1	2.0
44	4.7	4.3	3.9	3.6	3.4	3.1	2.9	2.8	2.6	2.5	2.4	2.2	2.1	2.1	2.0	1.9
46	4.5	4.1	3.8	3.5	3.2	3.0	2.8	2.7	2.5	2.4	2.3	2.1	2.1	2.0	1.9	1.8
48	4.3	3.9	3.6	3.3	3.1	2.9	2.7	2.5	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7
50	4.2	3.8	3.5	3.2	3.0	2.8	2.6	2.4	2.3	2.2	2.1	2.0	1.9	1.8	1.7	1.7

AC/H with Unit on Low Speed (estimated), with a 10 Foot Ceiling