

AirByDesign



Silent, Discrete Cleaning
Ceiling Cassette | CC Series

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.

The CC-600 Series is equipped with A HEPA filter (99.97% effective), Dual UV-C UL2998 lighting, and a carbon filter to remove unpleasant odors. The CC-600 and CC-1300 flow 600 CFM and 1300CFM respectively which is impressive considering the compact sizing. Our CC series is designed to fit in a t-bar ceiling, in place of a 24"x24" tile for the CC-600 and two 24"x24" tiles for the CC-1300.

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.

Ceiling Cassette | CC-600



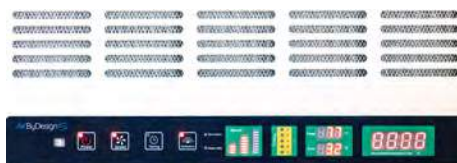
What's Included?

- MERV 8 Pre-Filter
- H13 HEPA Filter (99.97% Effective)
- Activated Carbon Filter
- Dual UV-C Lamp
- 600 CFM Airflow

Additional Features

- 3 Speed high efficiency motor
- IR Remote Control
- Indoor Air Quality monitoring

Ceiling Cassette | CC-1300



What's Included?

- MERV 8 Pre-Filter
- H13 HEPA Filter (99.97% Effective)
- Activated Carbon Filter
- Dual UV-C Lamp
- 1300 CFM Airflow

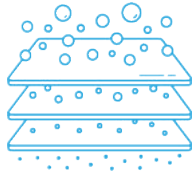
Additional Features

- 3 Speed high efficiency motor
- IR Remote Control
- Indoor Air Quality monitoring

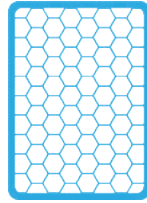
Layers of Controls



MERV 8
Pre-Filter



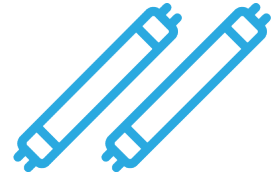
H13 HEPA



Activated
Carbon



Photocatalytic
Filter



Dual UV-C
Lighting



Pre-Filter

Designed to filter particles larger than 5 microns. This is to extend the life of the other filters.



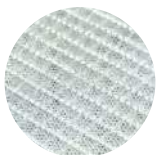
HEPA Filter

Removes more than 99.7% of particles with a diameter of 0.3 microns (1/200 of the diameter of a hair), making it the most effective filtering media for pollutants such as smoke, dust and bacteria. (For example; smoke particles produced by smoking are around 0.5 microns in diameter)



Activated Carbon

Strong, large adsorption capacity, fast absorption and desorption speed. Removes odors and harmful gases from the air.



PhotoCatalytic Filter

The Photocatalyst filter uses related nanotechnology to attach TiO₂ to a non-woven cloth, under the ultraviolet radiation of specific wavelength, to remove harmful gases and substances such as Formaldehyde, benzene, ammonia and TVOC by decomposing them into CO₂ and H₂O.



Dual UV-C Lighting

Dual 36W UV-C germicidal lamps further destroy bacteria and viruses in the air. L2998 certified which ensures that no harmful ozone is produced.

CC-600

Model Number	CC-600U-A
Louver Material	Powder Coated Steel
Cabinet Material	Galvanized Steel
Voltage	120/1/60
Power (W)	100
CFM (H / M / L)	600 / 500 / 400
Timer	2/4/6/8/10 or Continuous
Control	Unit Mounted Control Panel
	Infra-Red Remote Controller
Weight	60 lbs

CC-1300

Model Number	CC-1300U-A
Louver Material	Powder Coated Steel
Cabinet Material	Galvanized Steel
Voltage	120/1/60
Power (W)	150
CFM (H / M / L)	1300 / 1050 / 880
Timer	2/4/6/8/10 or Continuous
Control	Unit Mounted Control Panel
	Infra-Red Remote Controller
Weight	110 lbs

Air Changes | CC-600

		Room Width (Feet)															
		20	22	24	26	28	30	32	34	36	38	40	42	44	400	48	50
Room Depth (Feet)	20	9.0	8.2	7.5	6.9	6.4	6.0	5.6	5.3	5.0	4.7	4.5	4.3	4.1	0.5	3.8	3.6
	22	8.2	7.4	6.8	6.3	5.8	5.5	5.1	4.8	4.5	4.3	4.1	3.9	3.7	0.4	3.4	3.3
	24	7.5	6.8	6.3	5.8	5.4	5.0	4.7	4.4	4.2	3.9	3.8	3.6	3.4	0.4	3.1	3.0
	26	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	0.3	2.9	2.8
	28	6.4	5.8	5.4	4.9	4.6	4.3	4.0	3.8	3.6	3.4	3.2	3.1	2.9	0.3	2.7	2.6
	30	6.0	5.5	5.0	4.6	4.3	4.0	3.8	3.5	3.3	3.2	3.0	2.9	2.7	0.3	2.5	2.4
	32	5.6	5.1	4.7	4.3	4.0	3.8	3.5	3.3	3.1	3.0	2.8	2.7	2.6	0.3	2.3	2.3
	34	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.9	2.8	2.6	2.5	2.4	0.3	2.2	2.1
	36	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	0.3	2.1	2.0
	38	4.7	4.3	3.9	3.6	3.4	3.2	3.0	2.8	2.6	2.5	2.4	2.3	2.2	0.2	2.0	1.9
	40	4.5	4.1	3.8	3.5	3.2	3.0	2.8	2.6	2.5	2.4	2.3	2.1	2.0	0.2	1.9	1.8
	42	4.3	3.9	3.6	3.3	3.1	2.9	2.7	2.5	2.4	2.3	2.1	2.0	1.9	0.2	1.8	1.7
	44	4.1	3.7	3.4	3.1	2.9	2.7	2.6	2.4	2.3	2.2	2.0	1.9	1.9	0.2	1.7	1.6
	400	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.0	0.2	0.2
	48	3.8	3.4	3.1	2.9	2.7	2.5	2.3	2.2	2.1	2.0	1.9	1.8	1.7	0.2	1.6	1.5
50	3.6	3.3	3.0	2.8	2.6	2.4	2.3	2.1	2.0	1.9	1.8	1.7	1.6	0.2	1.5	1.4	

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

		Room Width (Feet)															
		20	22	24	26	28	30	32	34	36	38	40	42	44	400	48	50
Room Depth (Feet)	20	7.5	6.8	6.3	5.8	5.4	5.0	4.7	4.4	4.2	3.9	3.8	3.6	3.4	0.4	3.1	3.0
	22	6.8	6.2	5.7	5.2	4.9	4.5	4.3	4.0	3.8	3.6	3.4	3.2	3.1	0.3	2.8	2.7
	24	6.3	5.7	5.2	4.8	4.5	4.2	3.9	3.7	3.5	3.3	3.1	3.0	2.8	0.3	2.6	2.5
	26	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	0.3	2.4	2.3
	28	5.4	4.9	4.5	4.1	3.8	3.6	3.3	3.2	3.0	2.8	2.7	2.6	2.4	0.3	2.2	2.1
	30	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	0.3	2.1	2.0
	32	4.7	4.3	3.9	3.6	3.3	3.1	2.9	2.8	2.6	2.5	2.3	2.2	2.1	0.2	2.0	1.9
	34	4.4	4.0	3.7	3.4	3.2	2.9	2.8	2.6	2.5	2.3	2.2	2.1	2.0	0.2	1.8	1.8
	36	4.2	3.8	3.5	3.2	3.0	2.8	2.6	2.5	2.3	2.2	2.1	2.0	1.9	0.2	1.7	1.7
	38	3.9	3.6	3.3	3.0	2.8	2.6	2.5	2.3	2.2	2.1	2.0	1.9	1.8	0.2	1.6	1.6
	40	3.8	3.4	3.1	2.9	2.7	2.5	2.3	2.2	2.1	2.0	1.9	1.8	1.7	0.2	1.6	1.5
	42	3.6	3.2	3.0	2.7	2.6	2.4	2.2	2.1	2.0	1.9	1.8	1.7	1.6	0.2	1.5	1.4
	44	3.4	3.1	2.8	2.6	2.4	2.3	2.1	2.0	1.9	1.8	1.7	1.6	1.5	0.2	1.4	1.4
	400	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
	48	3.1	2.8	2.6	2.4	2.2	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.4	0.2	1.3	1.3
50	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.4	0.2	1.3	1.2	

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

		Room Width (Feet)															
		20	22	24	26	28	30	32	34	36	38	40	42	44	400	48	50
Room Depth (Feet)	20	6.0	5.5	5.0	4.6	4.3	4.0	3.8	3.5	3.3	3.2	3.0	2.9	2.7	0.3	2.5	2.4
	22	5.5	5.0	4.5	4.2	3.9	3.6	3.4	3.2	3.0	2.9	2.7	2.6	2.5	0.3	2.3	2.2
	24	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	0.3	2.1	2.0
	26	4.6	4.2	3.8	3.6	3.3	3.1	2.9	2.7	2.6	2.4	2.3	2.2	2.1	0.2	1.9	1.8
	28	4.3	3.9	3.6	3.3	3.1	2.9	2.7	2.5	2.4	2.3	2.1	2.0	1.9	0.2	1.8	1.7
	30	4.0	3.6	3.3	3.1	2.9	2.7	2.5	2.4	2.2	2.1	2.0	1.9	1.8	0.2	1.7	1.6
	32	3.8	3.4	3.1	2.9	2.7	2.5	2.3	2.2	2.1	2.0	1.9	1.8	1.7	0.2	1.6	1.5
	34	3.5	3.2	2.9	2.7	2.5	2.4	2.2	2.1	2.0	1.9	1.8	1.7	1.6	0.2	1.5	1.4
	36	3.3	3.0	2.8	2.6	2.4	2.2	2.1	2.0	1.9	1.8	1.7	1.6	1.5	0.2	1.4	1.3
	38	3.2	2.9	2.6	2.4	2.3	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	0.2	1.3	1.3
	40	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.4	0.2	1.3	1.2
	42	2.9	2.6	2.4	2.2	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.4	1.3	0.1	1.2	1.1
	44	2.7	2.5	2.3	2.1	1.9	1.8	1.7	1.6	1.5	1.4	1.4	1.3	1.2	0.1	1.1	1.1
	400	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1
	48	2.5	2.3	2.1	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.1	0.1	1.0	1.0
50	2.4	2.2	2.0	1.8	1.7	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.1	0.1	1.0	1.0	

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

Air Changes | CC-1300

		Room Width (Feet)															
		20	22	24	26	28	30	32	34	36	38	40	42	44	880	48	50
Room Depth (Feet)	20	19.5	17.7	16.3	15.0	13.9	13.0	12.2	11.5	10.8	10.3	9.8	9.3	8.9	0.4	8.1	7.8
	22	17.7	16.1	14.8	13.6	12.7	11.8	11.1	10.4	9.8	9.3	8.9	8.4	8.1	0.4	7.4	7.1
	24	16.3	14.8	13.5	12.5	11.6	10.8	10.2	9.6	9.0	8.6	8.1	7.7	7.4	0.4	6.8	6.5
	26	15.0	13.6	12.5	11.5	10.7	10.0	9.4	8.8	8.3	7.9	7.5	7.1	6.8	0.3	6.3	6.0
	28	13.9	12.7	11.6	10.7	9.9	9.3	8.7	8.2	7.7	7.3	7.0	6.6	6.3	0.3	5.8	5.6
	30	13.0	11.8	10.8	10.0	9.3	8.7	8.1	7.6	7.2	6.8	6.5	6.2	5.9	0.3	5.4	5.2
	32	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	0.3	5.1	4.9
	34	11.5	10.4	9.6	8.8	8.2	7.6	7.2	6.7	6.4	6.0	5.7	5.5	5.2	0.3	4.8	4.6
	36	10.8	9.8	9.0	8.3	7.7	7.2	6.8	6.4	6.0	5.7	5.4	5.2	4.9	0.2	4.5	4.3
	38	10.3	9.3	8.6	7.9	7.3	6.8	6.4	6.0	5.7	5.4	5.1	4.9	4.7	0.2	4.3	4.1
	40	9.8	8.9	8.1	7.5	7.0	6.5	6.1	5.7	5.4	5.1	4.9	4.6	4.4	0.2	4.1	3.9
	42	9.3	8.4	7.7	7.1	6.6	6.2	5.8	5.5	5.2	4.9	4.6	4.4	4.2	0.2	3.9	3.7
	44	8.9	8.1	7.4	6.8	6.3	5.9	5.5	5.2	4.9	4.7	4.4	4.2	4.0	0.2	3.7	3.5
	880	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.0	0.2	0.2
	48	8.1	7.4	6.8	6.3	5.8	5.4	5.1	4.8	4.5	4.3	4.1	3.9	3.7	0.2	3.4	3.3
50	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	0.2	3.3	3.1	

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

		Room Width (Feet)															
		20	22	24	26	28	30	32	34	36	38	40	42	44	880	48	50
Room Depth (Feet)	20	15.8	14.3	13.1	12.1	11.3	10.5	9.8	9.3	8.8	8.3	7.9	7.5	7.2	0.4	6.6	6.3
	22	14.3	13.0	11.9	11.0	10.2	9.5	8.9	8.4	8.0	7.5	7.2	6.8	6.5	0.3	6.0	5.7
	24	13.1	11.9	10.9	10.1	9.4	8.8	8.2	7.7	7.3	6.9	6.6	6.3	6.0	0.3	5.5	5.3
	26	12.1	11.0	10.1	9.3	8.7	8.1	7.6	7.1	6.7	6.4	6.1	5.8	5.5	0.3	5.0	4.8
	28	11.3	10.2	9.4	8.7	8.0	7.5	7.0	6.6	6.3	5.9	5.6	5.4	5.1	0.3	4.7	4.5
	30	10.5	9.5	8.8	8.1	7.5	7.0	6.6	6.2	5.8	5.5	5.3	5.0	4.8	0.2	4.4	4.2
	32	9.8	8.9	8.2	7.6	7.0	6.6	6.2	5.8	5.5	5.2	4.9	4.7	4.5	0.2	4.1	3.9
	34	9.3	8.4	7.7	7.1	6.6	6.2	5.8	5.4	5.1	4.9	4.6	4.4	4.2	0.2	3.9	3.7
	36	8.8	8.0	7.3	6.7	6.3	5.8	5.5	5.1	4.9	4.6	4.4	4.2	4.0	0.2	3.6	3.5
	38	8.3	7.5	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.4	4.1	3.9	3.8	0.2	3.5	3.3
	40	7.9	7.2	6.6	6.1	5.6	5.3	4.9	4.6	4.4	4.1	3.9	3.8	3.6	0.2	3.3	3.2
	42	7.5	6.8	6.3	5.8	5.4	5.0	4.7	4.4	4.2	3.9	3.8	3.6	3.4	0.2	3.1	3.0
	44	7.2	6.5	6.0	5.5	5.1	4.8	4.5	4.2	4.0	3.8	3.6	3.4	3.3	0.2	3.0	2.9
	880	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.1	0.1
	48	6.6	6.0	5.5	5.0	4.7	4.4	4.1	3.9	3.6	3.5	3.3	3.1	3.0	0.1	2.7	2.6
50	6.3	5.7	5.3	4.8	4.5	4.2	3.9	3.7	3.5	3.3	3.2	3.0	2.9	0.1	2.6	2.5	

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

		Room Width (Feet)															
		20	22	24	26	28	30	32	34	36	38	40	42	44	880	48	50
Room Depth (Feet)	20	13.2	12.0	11.0	10.2	9.4	8.8	8.3	7.8	7.3	6.9	6.6	6.3	6.0	0.3	5.5	5.3
	22	12.0	10.9	10.0	9.2	8.6	8.0	7.5	7.1	6.7	6.3	6.0	5.7	5.5	0.3	5.0	4.8
	24	11.0	10.0	9.2	8.5	7.9	7.3	6.9	6.5	6.1	5.8	5.5	5.2	5.0	0.3	4.6	4.4
	26	10.2	9.2	8.5	7.8	7.3	6.8	6.3	6.0	5.6	5.3	5.1	4.8	4.6	0.2	4.2	4.1
	28	9.4	8.6	7.9	7.3	6.7	6.3	5.9	5.5	5.2	5.0	4.7	4.5	4.3	0.2	3.9	3.8
	30	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	0.2	3.7	3.5
	32	8.3	7.5	6.9	6.3	5.9	5.5	5.2	4.9	4.6	4.3	4.1	3.9	3.8	0.2	3.4	3.3
	34	7.8	7.1	6.5	6.0	5.5	5.2	4.9	4.6	4.3	4.1	3.9	3.7	3.5	0.2	3.2	3.1
	36	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	0.2	3.1	2.9
	38	6.9	6.3	5.8	5.3	5.0	4.6	4.3	4.1	3.9	3.7	3.5	3.3	3.2	0.2	2.9	2.8
	40	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	0.2	2.8	2.6
	42	6.3	5.7	5.2	4.8	4.5	4.2	3.9	3.7	3.5	3.3	3.1	3.0	2.9	0.1	2.6	2.5
	44	6.0	5.5	5.0	4.6	4.3	4.0	3.8	3.5	3.3	3.2	3.0	2.9	2.7	0.1	2.5	2.4
	880	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1
	48	5.5	5.0	4.6	4.2	3.9	3.7	3.4	3.2	3.1	2.9	2.8	2.6	2.5	0.1	2.3	2.2
50	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.9	2.8	2.6	2.5	2.4	0.1	2.2	2.1	

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