

AIR CLEANING/PURIFICATION

Electrostatic Air Cleaners, Dry Scrubbers

INDOOR AIR QUALITY

Ceiling Suspended Air Cleaners, UVGI Systems

Duct Mounted Photo Catalytic Oxidization (PCO) & Bi-Polar Purifiers

ODOUR CONTROL

Fixed & Portable Ozone Generators



RydAiR is a subsidiary company of Airverclean Pte Ltd. Both companies are based in Singapore and specializes in the manufacturing and sales of electrostatic air filtration and indoor air purification equipment and systems.

Airverclean Pte Ltd is a fully owned subsidiary of **Jiangsu Polygee Environmental Technology Co Ltd**, one of the biggest manufacturers of commercial and industrial electrostatic air cleaners and systems in China.

Since our introduction 20 years ago, our range for exhaust air and indoor air quality equipment is now fairly complete. This catalogue lists the main products that we currently supply to our world-wide customers.

.

Some of our products are qualified for green building accreditation. These include the UVGI systems and Electrostatic Air Cleaners.

RydAiR's products are distributed world-wide by our International Distributors, ranging from Australia to Colombia and USA. We also have associated companies in Malaysia, Dubai and India distributing our products

If you need further information on any of these products, please contact our distributors or email us directly at: **enquiry@rydair.com** or **sales@airverclean.com**

CE ISO 9001/14001

UL E532141

TÜV SÜD IP65 & IP68

SINGAPORE GREEN BUILDING PRODUCT SGBC EXCELLENT

GENERAL INFORMATION ON ELECTROSTATIC AIR CLEANERS



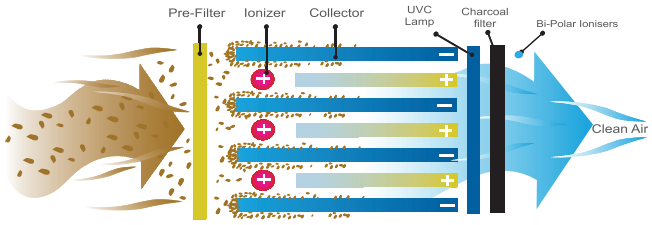
Electrostatic air cleaners remove airborne particles by charging them with an electric field, causing them to stick to oppositely charged collecting plates, similar to how a magnet attracts dust. This technology uses ionization to give particles a polarity, which then allows the electrostatic attraction to pull them to the plates, thereby purifying the air. These cleaners can be effective at capturing dry and wet particulates including oil mist, dust, pollen, smoke, and even bacteria.

These air cleaners have washable, reusable filters, which can be a cost-effective and environmentally friendly option compared to disposable filters.

Electrostatic Air Cleaners or Electrostatic Precipitators (ESPs) are now commonly used in commercial and industrial applications from capturing commercial cooking exhaust, dust going into Air Handling Units (AHUs), factory applications for capturing oil mists in CNC operations and smoke from welding operations.

RydAiR's ESPs are modular and can be configured for high airflow requirements.

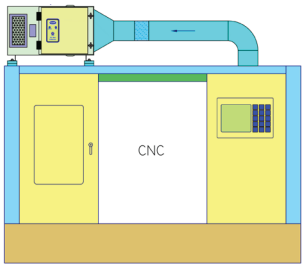
HOW ELECTROSTATIC AIR CLEANERS WORK:



Contaminated air is drawn by the blower (external) through a washable metal mesh pre-filter which traps large dust particles. The remaining particles, some as small as 0.01micron, pass through a strong electrical field (ionizing section) where the particulates receive an electrical charge. The charged particles then pass into the collector plates section made up of equally spaced parallel plates. Each alternate plate is charged with the same polarity as the particles, which repel, while the interleaving plates are grounded, which attract and collect the contaminants. The contaminants are held on these plates until they are washed off.

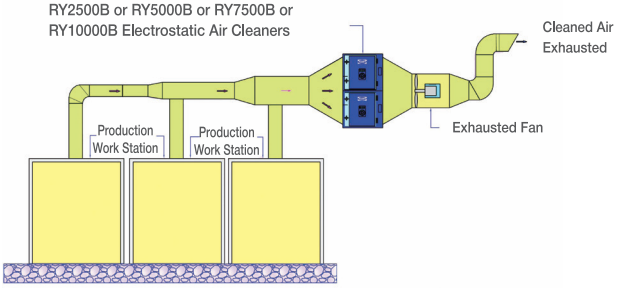
TYPICAL APPLICATIONS

INDUSTRIAL / CNC APPLICATIONS



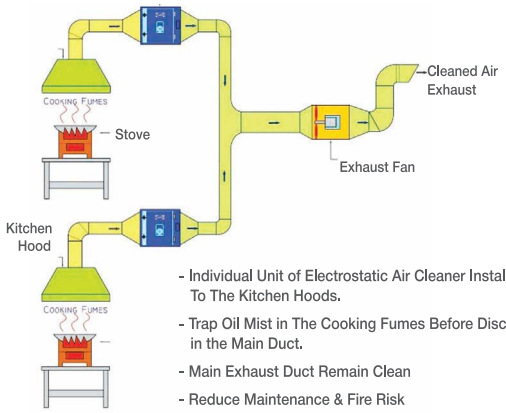
RydAiR RB700 oil mist collector

RY2500B or RY5000B or RY7500B or RY10000B Electrostatic Air Cleaners



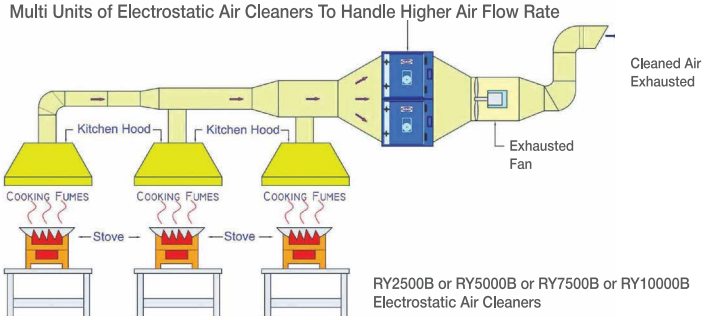
KITCHEN EXHAUST APPLICATIONS

RY2500B or RY5000B or RY7500B or RY10000B Electrostatic Air Cleaners



- Individual Unit of Electrostatic Air Cleaner Install Near To The Kitchen Hoods.
- Trap Oil Mist in The Cooking Fumes Before Discharge in the Main Duct.
- Main Exhaust Duct Remain Clean
- Reduce Maintenance & Fire Risk

Multi Units of Electrostatic Air Cleaners To Handle Higher Air Flow Rate



RY2500B or RY5000B or RY7500B or RY10000B Electrostatic Air Cleaners

E532141

RY2500BX / RY5000BX

Electrostatic Air Cleaners for dry and wet particulates

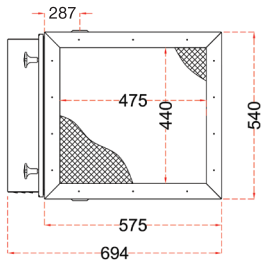




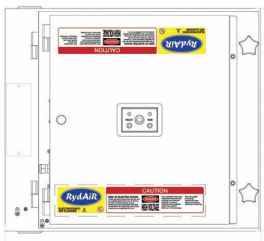
SPECIFICATIONS

	RY2500BX	RY5000BX
Dimensions. H x W x L (mm)	540 x 694 x 620	540 x 1243 x 620
Weight (Kg)	62 Kg	98 Kg
Cabinet	Electro Galvanized Steel, 1.4mm / 16 Guage	
Finishing	Powder Coated, Dark Blue	
Air Volume (Rated-Max)#	2500-4600CMH (Max)	5000-9200CMH(Max)
Pressure Drop	50 Pa-115 Pa (Max capacity)	
Voltage/ Power	220-240VAC 50/60Hz, 55 Watts	220-240VAC 50/60Hz, 95 Wattsw
Ionising Voltages	High Voltage: 12-13KVDC; Low Voltage 6-7 KVDC	
Air Flow Direction	Default : Right to Left; Reversible Left to Right	
Power Supply	Digital Power Supply, pulse wave modulation (PWM) High Frequency solid state and self regulating design	
Features	*LED display on power supply showing operations and error messages on the unit *Short circuit, arc protection and auto restore power supply *BMS (Building Management System) terminals provided *Auto power cut-off when door is opened *Indicator LEDs for normal or wash indicator	
Particle Size	From 0.01 microns to 10 microns	
Efficiency	DOP Test, up to 95% single pass, up to 99% double pass, calculated. ASHRAE 52.2-2012, up to 96% single pass, up to 99% double pass, calculated. NIOSH 5026 OIL MIST FIELD TEST : UP TO 96%	
MERV rating	Meets MERV 14 at velocity of 3.81m/s, 750fpm	
Pre-Filter	Stainless Steel Mesh Washable x1	Stainless Steel Mesh Washable x2
Electrostatic Cell Size (mm)	H 472 x W 550 x L 340	
No. of cells / Weight	1/16.5kg	2/16.5Kg

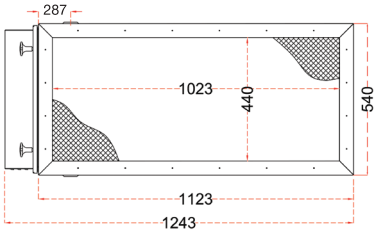
RY2500BX and RY5000BX can be retrofitted with UV Ozone Lamps for odour control if necessary



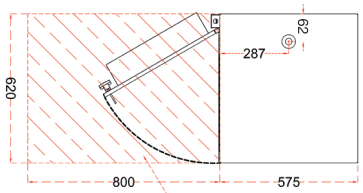
End View Air Inlet



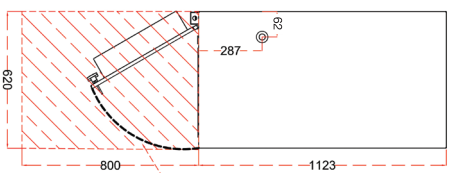
Front View



Air Intake View



Top View



Top View

#Running at Max capacity will reduce efficiency to 85%.

E532141

RY7500BX / RY10000BX

Electrostatic Air Cleaners for dry and wet particulates.

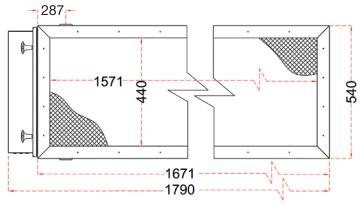




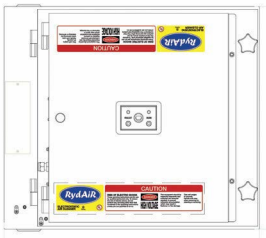
SPECIFICATIONS

	RY7500BX	RY10000BX
Dimensions. H x W x L (mm)	540 x 1790 x 620	540 x 2338 x 620
Weight (Kg)	132 Kg	165 Kg
Cabinet	Electro Galvanized Steel, 1.4mm / 16 Guage	
Finishing	Powder Coated, Dark Blue	
Air Volume (Rated-Max)#	7500-13800CMH (Max)	10000-18400CMH(Max)
Pressure Drop	50 Pa-115 Pa (Max capacity)	
Voltage/ Power	220-240VAC 50/60Hz. 135 Watts	220-240VAC 50/60Hz. 135 Watts
Ionising Voltages	High Voltage: 12-13KVDC; Low Voltage 6-7 KVDC	
Air Flow Direction	Default : Right to Left; Reversible Left to Right	
Power Supply	Digital Power Supply, pulse wave modulation (PWM) High Frequency solid state and self regulating design	
Features	*LED display on power supply showing operations and error messages on the unit *Short circuit, arc protection and auto restore power supply *BMS (Building Management System) terminals provided *Auto power cut-off when door is opened *Indicator LEDs for normal or wash indicator *Set of Terminals for remote LED normal or wash indicator	
Particle Size	From 0.01 microns to 10 microns	
Efficiency	DOP Test, up to 95% single pass, up to 99% double pass, calculated. ASHRAE 52.2-2012, up to 96% single pass, up to 99% double pass, calculated. NIOSH 5026 OIL MIST FIELD TEST : UP TO 96%	
MERV rating	Meets MERV 14 at velocity of 3.81m/s, 750fpm	
Pre-Filter	Stainless Steel Mesh Washable x3	Stainless Steel Mesh Washable x4
Electrostatic Cell Size (mm)	H 472 x W 550 x L 340	
No. of cells / Weight	3/16.5kg	4/16.5Kg

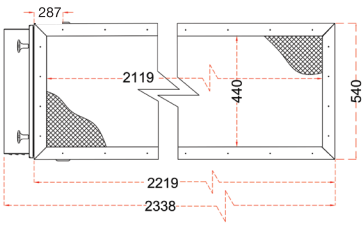
RY7500BX and RY10000BX can be retrofitted with UV Ozone Lamps for odour control if necessary



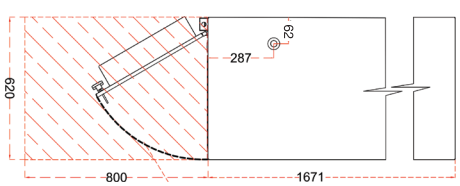
Air Intake View



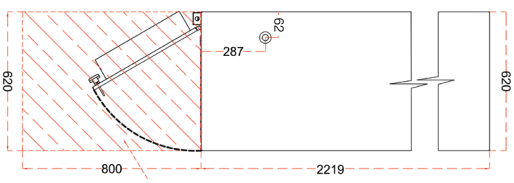
Front View



Air Intake View



Top View



Top View

#Running at Max capacity will reduce efficiency to 85%.

RY2500B-V

Electrostatic Air Cleaners (without Blower)
Vertical Mounted Unit

RY1200

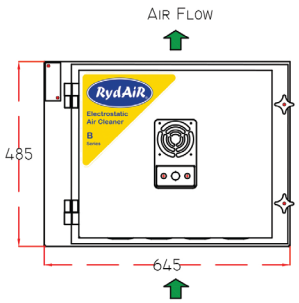
Electrostatic Air Cleaners
(without Blower)
Low Profile, Low Capacity



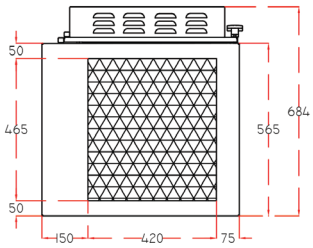


SPECIFICATIONS

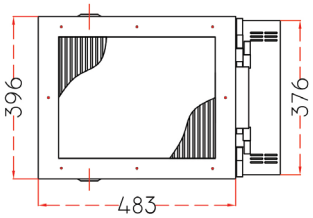
	RY2500BV	RY1200
Dimensions.H x W x L (mm)	485 x 684 x 645	396 x 592 x 582
Weight (Kg)	50 Kg	42 Kg
Cabinet	Galvanized Steel, 1.4mm	
Finishing	Powder Coated, Dark Blue	
Air Volume (Rated-Max)#	2500-3500 CMH (Max)	1000 CMH
Pressure Drop	50 Pa	
Voltage/ Power	220-240VAC, 50/60Hz, 50 Watts	220-240VAC, 50/60Hz 40 Watts
Ionising Voltages	High Voltage: 12KVDC; Low Voltage 6KVDC	
Air Flow Direction	Vertical only	Horizontal, Right to Left, Left to Right
Power Supply	High Frequency Solid state self regulating design	
Features	Short circuit, arc protection and auto restore. Auto cut off when door is opened. LED indicator for wash indication	
Particle Size	From 0.01 microns to 10 microns	
Efficiency	Up to 95%	
No. of cells / Weight	1/16.5kg	1/11Kg
Installation	Ceiling suspended or frame mounted	



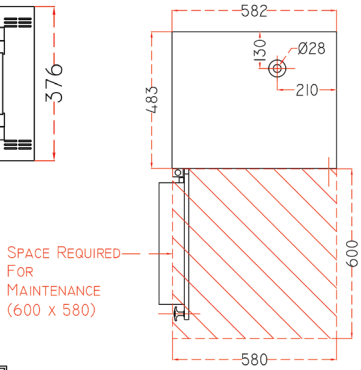
Front View



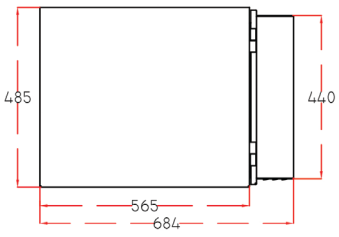
Air Intake View



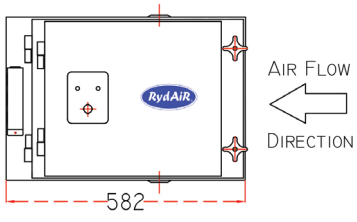
End View



Top View



Side View



Front View

#Running at Max capacity will reduce efficiency to 85%.

RB2400B / RB2400B-F
RB4800B / RB4800B-F

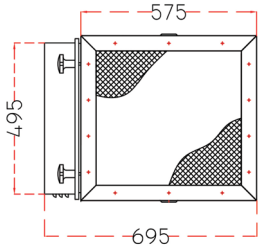
Industrial grade Electrostatic Air Cleaners for collection of wet and dry particulates, with built in motor and blower. Typical applications include commercial kitchen exhaust, CNC factories, machine workshops, etc.



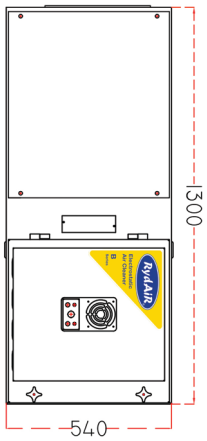


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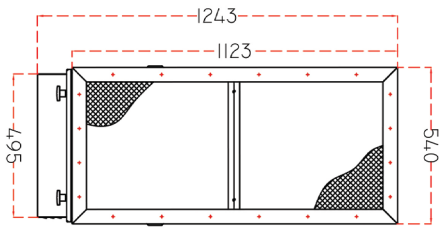
	RB2400B, RB2400B-F	RB4800B,RB4800B-F
Dimensions. H x W x L (mm)	540 x 695 x 1300	540 x 1243 x 1300
Weight (Kg)	125 Kg	180 Kg
Cabinet	Galvanized Steel, 1.4mm / 16 Guage	
Finishing	Powder Coated, Dark Blue	
Air Volume	CFM: 1400; CMH: 2400; L/S: 667	CFM:2800; CMH:4800; L/S:1335
Static Pressure (ext)	RB2400B: 150 Pa; RB2400B-F : 0 Pa	RB4800B: 150 Pa; RB4800B-F: 0 Pa
Voltage	220-240VAC, 50/60Hz	
Power Consumption	1150 Watts	1175 Watts
Ionising Voltages	High Voltage: 12-13KVDC; Low Voltage 6-7 KVDC	
Air Flow Direction	Default : Right to Left; Reversible Left to Right on request	
Power Supply	High prefqeuncy Power Supply, pulse wave modulating PWM High Frequency Solid State & Self Regulating Design	
Features	Short circuit, Arc protection and auto restore power supply Auto cut off when door is opened. Set of indicator for normal operations or wash required	
Particle Size	From 0.01 mi-crons to 100 microns	
Efficiency	DOP Test, up to 95% on Single Pass and 99% on Double Pass. ASHRAE Std 52.2-2012, up to 96% on Single Pass and up to 99% on Double Pass.	
Aluminium Mesh Pre filter	1pc	2pcs
Electrostatic Cell Size (mm)	H 472 x W 350 x L 340	
No. of cells / Weight	1/16.5kg	2/16.5Kg
Installation	Ceiling suspended or frame mounted	



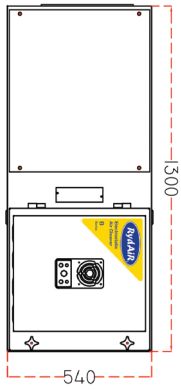
Air Intake View



Front View



Air Intake View



Front View

RB700 / RB1000

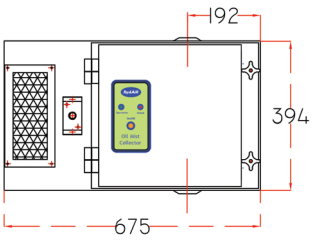
Small capacity industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cook-ing fumes and various pollutants Typical application include commercial kitchen exhausts, factories, workshops, CNC ma-chine shops and many other premises.



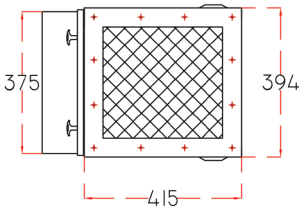


SPECIFICATIONS

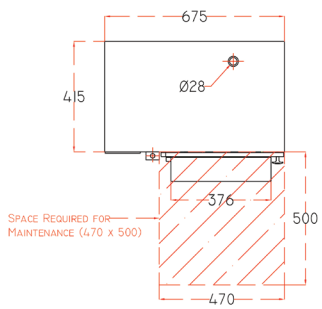
	RB700	RB1000
Dimensions. H x W x L (mm)	394 x 415 x 675	396 x 582 x 797
Weight (Kg)	30 Kg	50 Kg
Cabinet	Galvanized Steel, 1.4mm	
Finishing	Powder Coated, Beige	Powder Coated, Blue
Air Volume (Rated-Max)	H:700 CMH, M: 500 CMH, L:280 CMH	Single Speed 1000 CMH
Static Pressure (ext)	120 Pa	100 Pa
Voltage/ Power	220-240VAC, 50/60 Hz 350 Watts	
Ionising Voltages	High Voltage: 12KVDC; Low Voltage 6KVDC	
Air Flow Direction	Right to Front, Left to Front	
Power Supply	High Frequency Solid state self regulating design	
Features	Short circuit, arc protection and auto restore. Auto cut off when door is opened. LED indicator for wash indication	
Particle Size	From 0.01 microns to 10 microns	
Efficiency	Up to 95%	
Blower	Double Inlet Centrifugal Type	
No. of cells / Weight	1/ 8 Kg	1/11 Kg
Installation	Ceiling suspended or frame mounted	



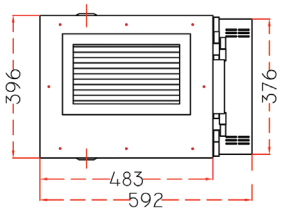
Front View



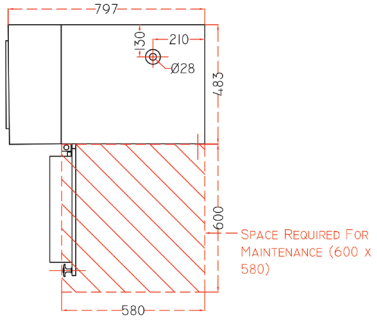
Air Intake View



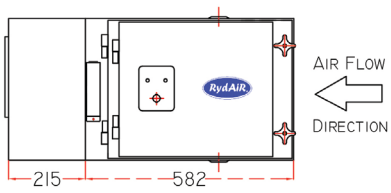
Top View



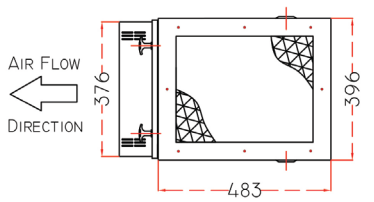
Air Discharge View



Top View



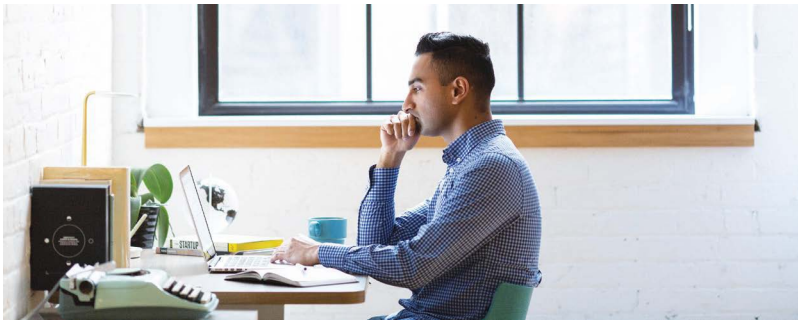
Front View



Air Intake View RY1200/RB1000

DM1000B
DM2000B

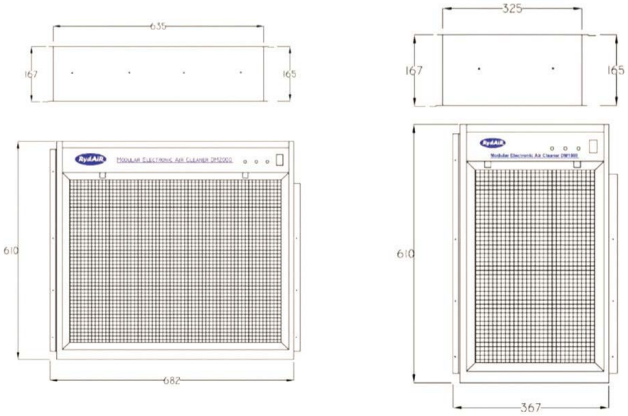




The RydAiR Modular Electronic Air Cleaner (EAC), DM 2000B/ DM 1000B is a commercial unit designed for use in Custom Air Handling System / Air Handling Units. It is a fact that “Sick Building Syndrome” exists in many commercial buildings and having a good and reliable air filtration system is a major step towards improving the quality of indoor air. This in turn creates a healthy work environment for employees, reduces the spread of infectious ailments resulting in less sick leave and increased productivity.

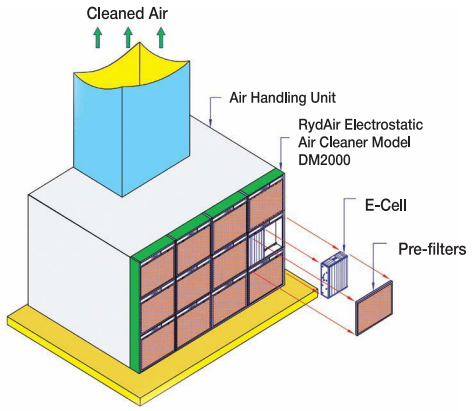
The DM 2000B/DM 1000B reduces the amount of airborne particulates from soiling the AHU’s cooling coils and when in place of mechanical pre and post fillters, huge savings in energy consumption is derived as a result of lower pressure drop of the EAC compared to these conventional mechanical fillters.

DIMENSION:



DM2000B DM1000B

TYPICAL INSTALLATION:



SPECIFICATIONS:

Air Handling Capacity	3400 CMH (DM2000B)
	1700 CMH (DM1000B)
Power Consumption	36 Watts (DM2000B)
	30 Watts (DM1000B)
Voltage & Frequency	220/240 VAC 50/60Hz
Ionizing Voltage	8.1 KVDC
Collectior Voltage	4.1 KVDC
No. of collection cells	2 (DM2000B) 1 (DM1000B)
Cell dimensions	500mm x 315mm x 110mm
No. of plates per cell	71
No. of Ionizing wires per cell	9
Cell weight (each)	4.6kg
Cell material	Aluminum
Efficiency	MERV 14 – ASHRAE 52.2-2017
Pressure drop	0.11” WG-0.25” WG (28Pa to 66Pa)
Operating temperature	4°C to 55°C
Building Management System	Yes
Status & Performance	On, Wash, Check signal Indicator
Power supply protection	Shuts down high tension
(Anti arc suppression)	output when short circuit occurs
Safety features	Safety cut of switch
Accessories	Pre-filters & cells
Option	Charcoal after filter for odor reduction
Cell Loading	Front Loaded
Housing material	1.2mm Hot dip
	Galvanized steel
Mounting / Installation	Air return of AHU/Fresh air inlet
Unit Dimension	DM2000B: 682mmx610mmx165mm
	DM1000B: 367mmx610mmx165mm
Unit Weight	DM2000B – 18.5 Kg
	DM1000B – 9.8 Kg



RydAiR

MERV 15 Fcu-ESP

DM 380F
ELECTRONIC AIR CLEANER
FOR FAN COIL UNIT (FCU)

The RydAIR **DM380F** is a high-performance, commercial grade Electrostatic Precipitators (ESP), or Electronic Air Cleaner (EAC) specifically engineered for integration into FAN COIL UNITS (FCUs).

Designed to combat "Sick Building Syndrome," these units provide a heavy-duty solution for modern commercial facilities looking to prioritize both occupant health and operational efficiency. Power consumption is very low at 8 watts, contributing to energy savings and green building initiatives.

This unit meets **MERV 16** efficiency at low airflow and **MERV 14** at the maximum airflow

FEATURES:

- Modular design. Multiple units can be connected to meet FCU airflow requirement.
- State of the art power supply ensure peak efficiency at all times.
- Meets **MERV 15** Requirements.
- Power supply incorporates arc suppression features for safety and durability
- Dual Ionizing voltage from higher efficiency
- On/Wash/Indicators for performance status
- BMS dry contacts for connection to Building Management System
- Long lasting washable aluminium Ionizing & Collection Cells
- Front loaded cell access for ease of maintenance.

BENEFITS:

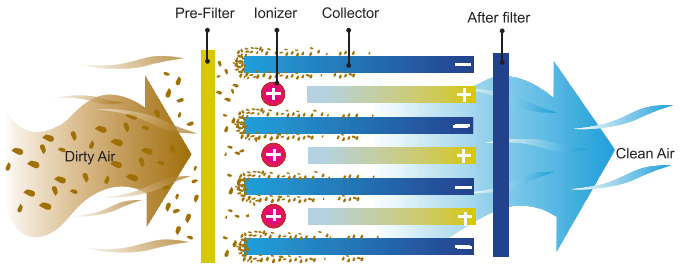
- Superior performance compared to media filters
- Low pressure drop
- Energy savings and contributes to green building initiatives.
- Long lasting washable aluminum lionizing & Collection Cells



DM380F
AIRFLOW : 200 CMH - 1200 CMH

HOW IT WORKS:

The RydAiR system utilizes a highly efficient, multi-stage process to eliminate airborne contaminants down to submicron sizes



Pre-Filtration: Contaminated air is drawn into the unit via an external blower. A washable metal mesh pre-filter captures large dust particles and debris.

Stage 1: Ionization: The remaining microscopic particulates (as small as 0.3 microns) pass through a powerful electrical field, receiving a strong electrical charge.

Stage 2: Collection: The charged particles enter the collector section, which features precisely spaced parallel plates. Alternating charged plates repel the particles, driving them into grounded interleaving plates where they are trapped and held securely.

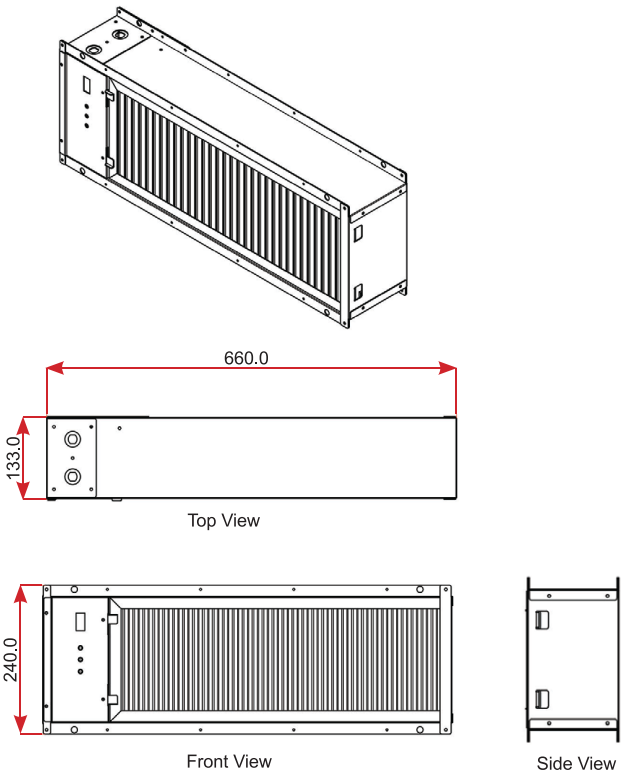
Maintenance: Contaminants remain safely bonded to the collector plates until they are easily washed away during routine maintenance.

Targeted Pollutants: Effectively traps a wide range of dry particulates, including dust, dirt, lint, pollen, haze, and smoke

SPECIFICATIONS:

Model	DM 380F		
Dimension (WxHxD)	660 x 240 x 133 mm		
Weight	7.5Kg		
Air Handling Capacity (CMH)	200-600	600-800	800-1200
Pressure Drop	5 - 29 Pa	29 - 47 Pa	72 - 96 Pa
Efficiency	MERV 16	MERV 15	MERV 14
Voltage	230VAC 50 / 60hz		
Power	8.4W, 0.06A		
Ionizing Voltages	8.1kV / 4.1kV		
Housing Material	1.2 mm Galvanised Steel		
No of Collecting Cells	1		
Cell Weight	3 Kg		
Cell Material	Aluminum		
Operating Temperature	4 deg C to 55 deg C		
Building management System	Yes		
Status Performance	On / Check / Wash Indicators		
Safety Features	Safety Power Cut Off Switch		

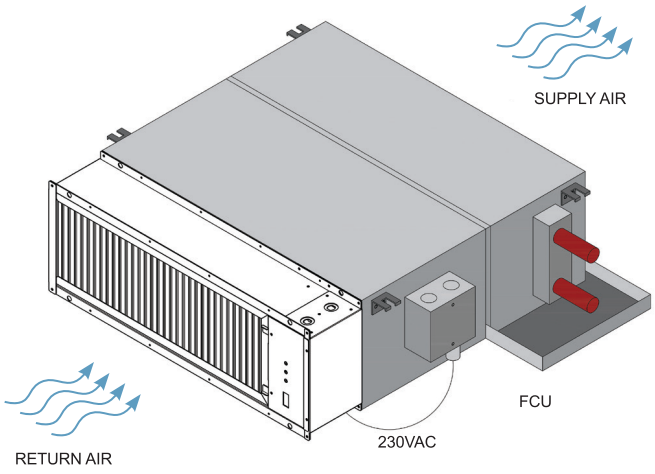
DIMENSIONS:

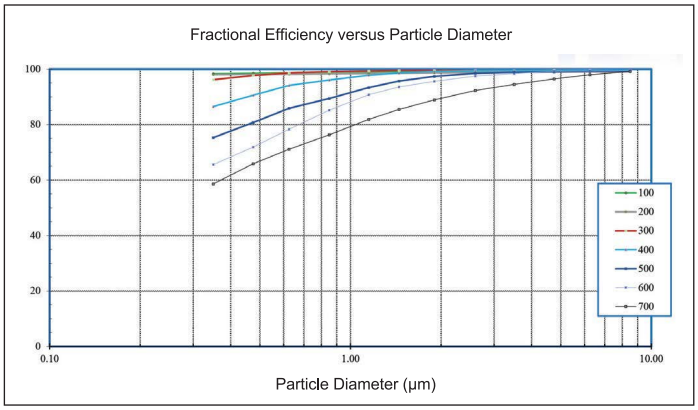


EFFICIENCY - MERV 14-16
INDEPENDENT 3RD PARTY TEST REPORT
By U.S. Based Laboratory Per ASHRAE 52.2 Standard

INITIAL 52.2 TEST REPORT (NEW CLASSIFICATION)							
Flow (FPM)	100	200	300	400	500	600	700
Flow (CFM)	114	228	343	457	571	687	801
Δ P (in H^2O)	0.018	0.057	0.116	0.189	0.291	0.384	0.509
Size Range (µm)	*Frantional Effiency (%)*						
0.3-0.4	98.3	98.0	96.2	86.5	75.3	65.6	58.6
0.4-0.55	98.5	98.1	97.7	90.6	80.7	71.9	65.9
0.55-0.7	98.7	98.2	98.6	94.1	85.9	78.3	71.1
0.7-1.0	98.9	98.3	99.1	96.1	89.4	85.2	76.3
1.0-1.3	99.0	98.4	99.4	97.8	93.3	90.8	81.9
1.3-1.6	99.1	98.5	99.5	98.7	95.7	93.6	85.5
1.6-2.2	99.2	98.7	99.5	99.1	97.4	95.6	88.9
2.2-3.0	99.3	98.7	99.5	99.4	98.5	97.5	92.3
3.0-4.0	99.3	98.9	99.5	99.5	98.9	98.4	94.5
4.0-5.5	99.4	99.0	99.6	99.5	99.0	99.2	96.5
5.5-7.0	99.5	99.0	99.6	99.6	99.2	99.3	98.0
7.0-10.0	99.5	99.0	99.5	99.6	99.3	99.5	99.2
E1	98.6	98.2	97.9	91.8	82.8	75.3	68.0
E2	99.2	98.6	99.5	98.8	96.2	94.4	87.2
E3	99.4	99.0	99.5	99.5	99.1	99.1	97.1
Initial MERV	16	16	16	15	14	14	13

TYPICAL INSTALLATION:







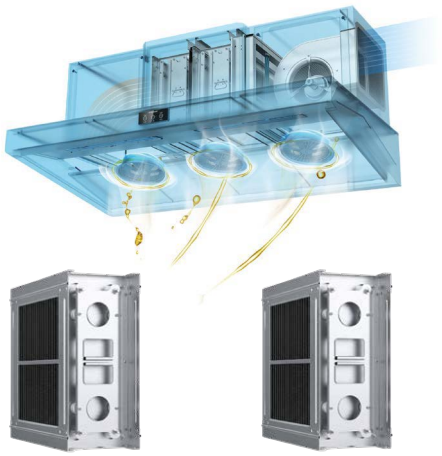
INTEGRATED COOKING HOOD
with ELECTROSTATIC AIR CLEANER
with ELECTROSTATIC AIR CLEANER & BLOWER

RydAiR's INTEGRATED COOKING HOODS provide a neat, quick and easy setup for commercial kitchens and restaurants. The stainless steel hood is integrated with an Electrostatic Air cleaners either ***with or without*** a suitably sized blower.

RC units with blower can be easily set up by simply connecting the blower outlet to an external duct. RC units without blowers can be linked together and connected to an external fan for extraction of the cleaned air.

RC units, whether with or without blowers make for easy installation and convenient maintenance as the cells are within reach, in the kitchen premises.





The RC hood and ESP collection cells are made of stainless steel, for performance and durability.

RC units are equipped with UV lamps for additional purification.



Top Discharge



Front Discharge



Rear Discharge

RC Series

INTEGRATED COOKING HOOD

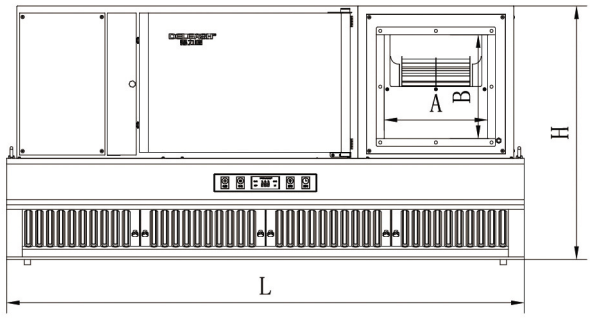
-WITH ELECTROSTATIC AIR CLEANER.

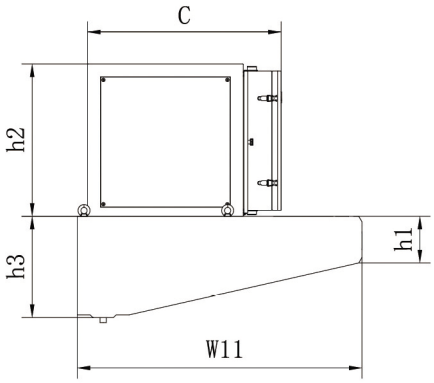
-WITH ELECTROSTATIC AIR CLEANER & BLOWER.

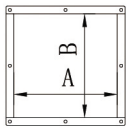
Multiple units (without blowers) installed side by side and served by an external exhaust fan for discharge outside the premises.











Model No	RC3200	RC3201	RC4800	RC4801
Motor & Blower	Nil	Yes	Nil	Yes
Airflow Capacity (m^3 Hr)	3,200	3,200	4,800	4,800
Voltage Input	230V 50Hz 1 Phase	380V 50Hz 3 Phase	230V 50Hz 1 Phase	380V 50Hz 3 Phase
Static Pressure Required	300 pa	NA	280 pa	NA
Ext. Static Pressure Available	NA	240 pa	NA	120 pa
Max Oil Mist Concentration (mg/m^3)	20	20	20	20
Discharge Oil Mist concentration at Outlet (mg/m^3)	≤ 1.0	≤ 1.0	≤ 1.0	≤ 1.0
Cleaning Efficiency (%)	≥ 95%	≥ 95%	≥ 95%	≥ 95%
Overall Dimension (L x W x H) mm	1600 x 1100 x 977	1600 x 1100 x 977	2400 x 1100 x 977	2400 x 1100 x 977
Outlet Flange Dimension (AXB) mm	400 x 400	400 x 400	400 x 400	400 x 400
Dimensions: H1,H2,H3,C	180 / 587 / 390 / 748	180 / 587 / 390 / 748	180 / 587 / 390 / 748	180 / 587 / 390 / 748
Power ESP (W)	280	280	280	280
Blower & Motor (kW)	NA	1.1	NA	1.5
UV Lamps	Yes	Yes	Yes	Yes
Material	Stainless steel SUS201	Stainless steel SUS201	Stainless steel SUS201	Stainless steel SUS201
Gross Weight (Kg)	183	210	248	275

DM450N/900N-DC

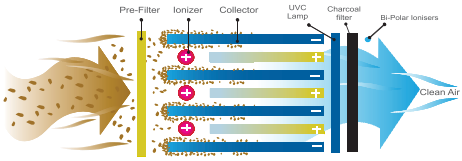
With UVC Lamps, Photo Catalytic oxidization (PCO) and Bi-Polar Ionisation (BPI)


DM450


DM900

The DM450N and DM900N-DC are commercial grades Electronic Air Cleaners featuring electrostatic air cleaning as the principal filter, augmented with multiple air and surface purification technologies. These include UVC Germicidal Irradiation, Photo Catalytic oxidization and Bi-Polar Ionisation. These units are designed to be flush mounted to false ceilings or simply suspended from the ceiling in the room.

HOW DM450/900N-DC WORKS:



DM450/ 900-HUB

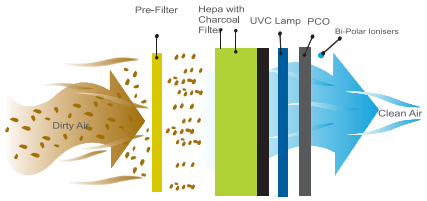
The DM450-HUB and DM900-HUB are exactly similar to the DM450N and DM900-DC, except that they are equipped with a HEPA filter, instead of an electrostatic filter. All other functions are identical for all 4 models.

The HEPA filter needs to be changed periodically between 3-6 months depending on usage and level of pollution.

FEATURES:

- Infra Red Remote Control Manual setting on power on is available via hard switch inside the unit. This eliminate the use of the remote control unit.
- 3 Speed motor control for desired rate of cleaning.
- Washable Main Filters and Pre-filters.
- Flush Mounted to false ceiling, fits into 60cm x 60cm and 60cm x 120cm ceiling board.
- Recirculates clean indoor air without any loss of airconditioning or heating in the room. Dirty air intake in one direction and clean air discharge in 3 directions.
- Collect dust particles from 0.01 microns and up.
- For heavy odor, like cigarette smoke, the UVC lamp can be changed to an UV ozone Lamp. The charcoal filter can be omitted. UV ozone lamp is available on special order only.

HOW DM450/900-HUB WORKS:



APPLICATIONS:

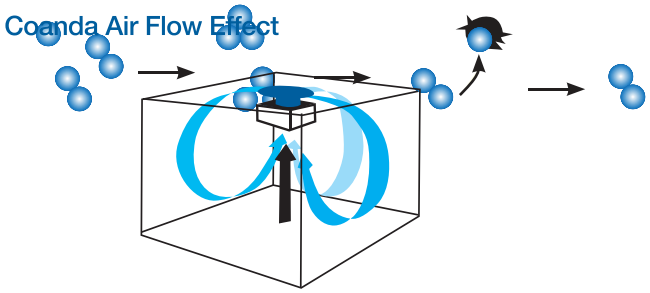
Offices	
Banking Halls	Conference Rooms
Clinics	Childcare Centres
Restaurants	Classrooms
Coffee Shops/Cafes	Homes
Cigar/Smoking Rooms	Showrooms
Gymnasiums	And many other areas

SPECIFICATIONS

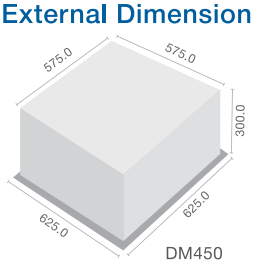
	DM450N	DM900N-DC	DM450-HUB	DM800-HUB
Dimensions. W x L x H (mm)	575 x 575 x 300	575 x 1160 x 350	575 x 575 x 300	575 x 1160 x 350
Material	1.0mm Electro Galvanised Steel, Powder Coated Grill			
Weight	26 Kg	42 Kg	23 Kg	35 Kg
Voltage	220-240VAC			
Power Consumption:	95 Watts	110 Watts	80 Watts	90 Watts
Efficiency 90.3 micron)	Up to 95%	Up to 95%	Up to 99%	Up to 99%
Max Air Volume #	800 CMH	1550 CMH	800 CMH	1550 CMH
Speed / Noise Level	L: 45, M:56, H:65dB	L: 45, M:59, H:68dB	L: 45, M:56, H:68dB	L: 45, M:59, H:68dB
Coverage (Floor Area)	40 - 50 Sq M	80 - 100 Sq M	40-50 Sq M	80-100 Sq M
Electronic Cell	1	2	0	0
Ionizing Voltages	8KV/4KV	8KV/4KV	NA	NA
Hepa Filter+Charcoal Filter	0	0	1	2
Charcoal FIlter	1	1	0	0
UV Lamp	1	2	1	2
Photo-Catalytic Filter	1	2	1	2
Bi-Polar Generator	1	2	1	2

 # - airflow w/o charcoal filter.

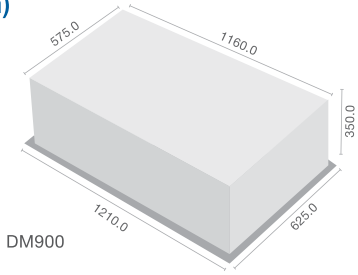
Coanda Air Flow Effect



External Dimensions (mm)



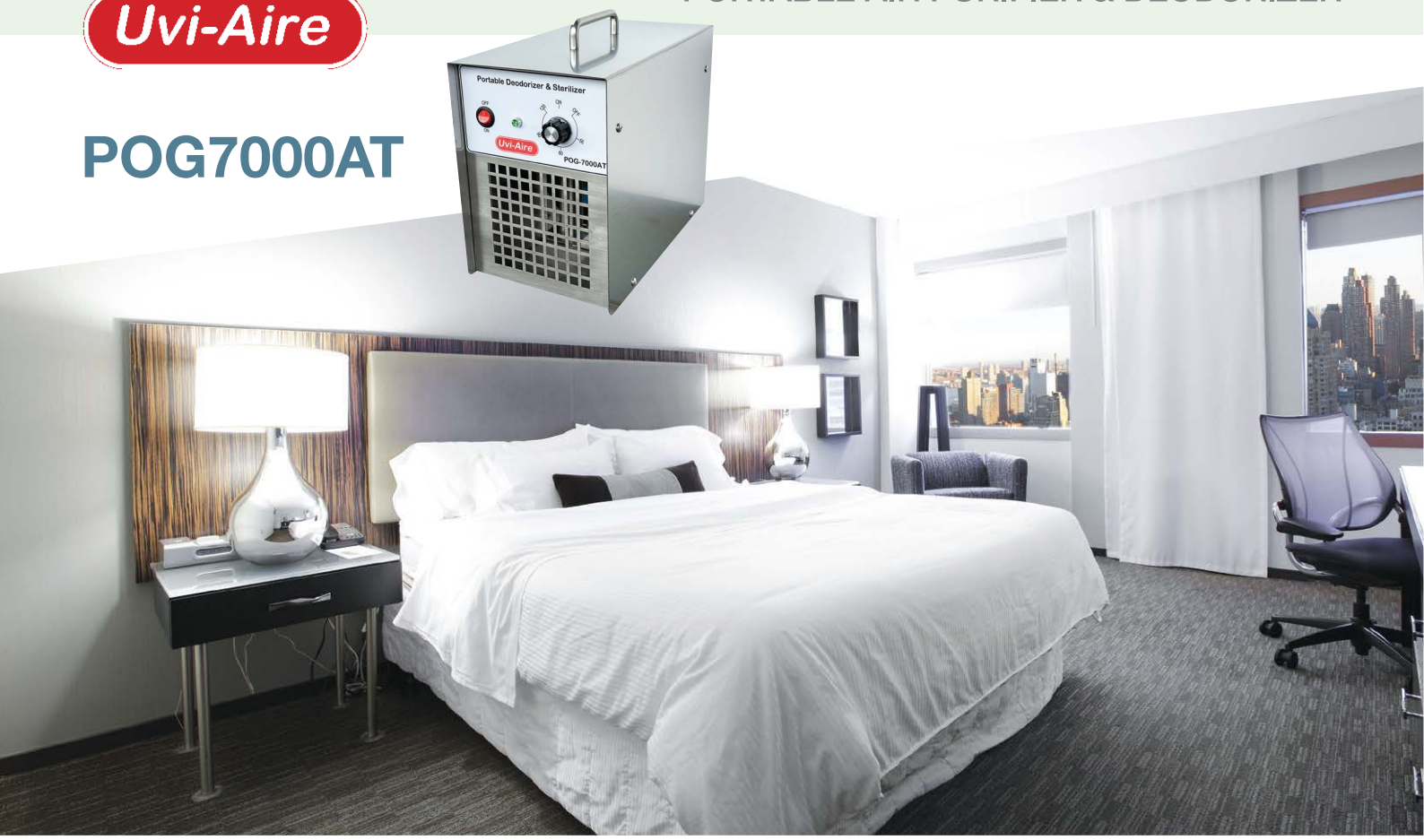
DM450



DM900

Uvi-Aire

POG7000AT



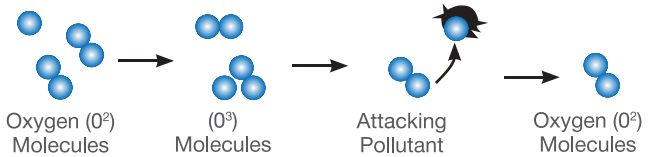
This Portable Air Purifier and Deodorizer, POG7000AT is the versatile and effective solution to all forms of indoor pollution; cleaning the environment of mould, fungi, mildew, bacteria, virus and various odours.

The POG7000AT produces ozone via the corona discharge method.

Ozone (O^3) is a powerful oxidant and bactericide and is sometimes called “activated oxygen”, or “triatomic oxygen”, contains three atoms of oxygen rather than the two atoms we normally breathe.

The POG7000AT takes in oxygen (O^2) from the air and convert it to ozone (O^3) which attacks bacteria, virus and various organic molecules and pathogens in the air and materials. It is a suicidal molecue looking for contaminations to attacks, oxidizing them and eventually destroying itself in the process.

Ozone has a very short lifespan and will last 15-20 minutes in ambient temperature before returning to “normal oxygen.



Ozone is suicidal molecule; it looks for a contaminant to attack, oxidizing it and destroying itself in the process.

SPECIFICATIONS

Weight	5.8 Kg
Dimension (mm)	H: 260 x L: 310 x D:185
Housing	Stainless Steel
Voltage	220-240VAC
Power	40 Watts
Ozone Output	7000mg / Hr
Controls	Manual (with Timer)
Area Coverage	200 sq metres

APPLICATIONS

- Hotel Rooms
- Supermarkets
- Hospitals
- Locker Rooms
- Wet Markets
- Gymnasiums
- Bars & Pubs
- Food Preparation Areas
- Kitchens
- Garbage Rooms

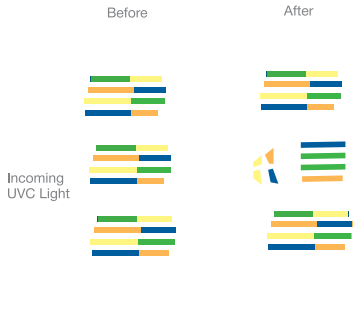
The POG7000AT is light and portable, can be moved from room to room and is simple to operate. There are no confusing digital switches and timers to set. The controls are simple: On Position /Off Position and Timer mode (in blocks of 15 mins to 2 Hours). This convenient operation is especially useful for hotels.

This unit has a fan that circulates the ozone into the area to be treated. There is no costly or harmful chemical to replace and maintenance is minimal. It replaces other often ineffective method of odour control such as constant fresh air replenishment with consequent heat or cold air loss, or “deodorizing” by masking odours with artificial fragrances.

UVGI ULTRA VIOLET GERMICIDAL IRRADIATION

UVC Lamps For Coils And Surface Air Irradiation

UVC is a low cost solution to disinfect cooling coils, drain pans and duct surfaces that have accumulated mold and bacteria growth. The technology disrupts a micro-organism's DNA., Triggering a chain reaction that leads to cellular death. Because the lamps operate continuously, biofilms are unable to regenerate, provided the UV-C source is properly maintained.

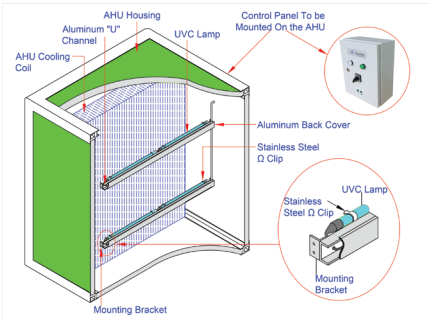


The DNA of the micro-organism is destroyed rendering the organism harmless and preventing future reproduction.



RL Series For AHU coil irradiation

RL series is customized flexible system for all sizes of AHUs. Ballasts and electronic controls are installed in a control panel outside of the AHU away from moist environment in the AHU. The number of lamps and wattage is determined by the size of the cooling coil. This makes it easy for maintenance. Various configuration can be designed for the control panel to receive signals from the exhaust fan and BMS feature allows for remote monitoring of the lamps. Items supplied are: Required number of UV lamps, wire looms and clips for installation and an assembled control panel for the required system. Typical lamp lengths are: 546mm, 843mm and 1554mm. All lamps are single ended, High Output Types. **Please contact us or your dealer for proper sizing and application.*



RL Series Installed in AHU

RL 121 Series For AHU/FCU Applications

The RL-121 is similar to RL Series except that it is supplied as a one bal-last to 1 lamp system. Each ballast housing can be interconnected to form a system of multiple lamp unit. This is for small AHU or FCU where the number of lamps required is low. RL-121 units are supplied with a BMS feature (Building Management System)

Items Supplied in the RL 121 set

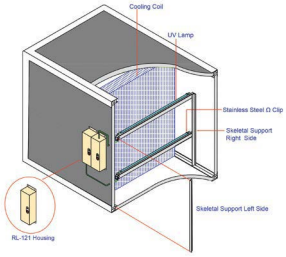
1) Ballast Housing (Single Ballast)
2) The lamp ordered (22", 33", 61")
3) A 3 meter long UV resistant wire loom complete with 4 pin socket and silicon socket plug. (Silicon socket plug is TUV tested to IP 65 standard to prevent electrical shorts from moisture/water.)
4) Set of 2 Stainless Steel Clips.



SPECIFICATIONS

Model	Voltage	Lamp Power	Lamp Length	Lamp Type	Lamp Life
RL 121-22	220-240VAC 0.27A	55 Watts	546mm/22"	T5 High Output	12,000 Hrs
RL 121-33	220-240VAC 0.62A	75 Watts	846mm/33"	T5 High Output	12,000 Hrs
RL 121-61	220-240VAC 0.80A	155 Watts	1554mm/61"	T5 High Output	12,000 Hrs

Not for outdoor use, unless under suitable cover from rain

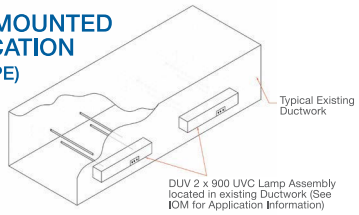


Skeletal support system are not included. Installer has the discretion to devise his own support structure.

DUV Series Duct Mounted Applications

The DUV units are designed for quick and simple installation into supply air ducts for UVGI irradiation. The ballasts and electronic accessories are mounted in the main housing while the lamps are simply inserted into the supply air ducts, via 2 holes and held in place by tapping screws. This system allows for 360 degree irradiation of the air in the ducts.

DUCT MOUNTED APPLICATION (DUV TYPE)



SPECIFICATIONS

Model	Voltage	Lamp Power consumption	Lamp Length	Lamp Type	*Estimated Air Capacity (CMH) for dosage of 15J/m² @2.5m/s	*Estimated Air Capacity (CMH) for dosage of 15J/m² @5.0m/sw	Lamp Life (Hrs)
DUV 1x300	220-240VAC 0.26A	60 watts	300mm	U Type	3240	1620	12000
DUV 1x400	220-240VAC 0.27A	75 watts	415mm	U Type	4320	2160	12000
DUV 2x300	220-240VAC 0.6A	120 watts (60x2)	300mm	U Type x 2	6480	3240	12000
DUV 2x400	220-240VAC 0.62A	150 watts (75x2)	415mm	U Type x 2	8640	4320	12000
DUV 1x700	220-240VAC 0.48A	120 watts	625mm	U Type	6300	3150	12000
DUV 2x700	220-240VAC 1.0A	240 watts (120x2)	625mm	U Type x 2	12600	6300	12000

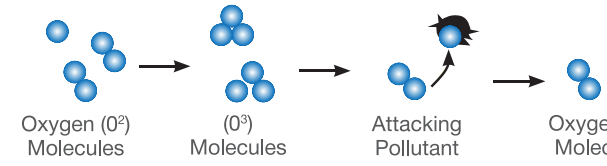
**Not for outdoor use, unless under suitable cover from rain*

Uvi-Aire

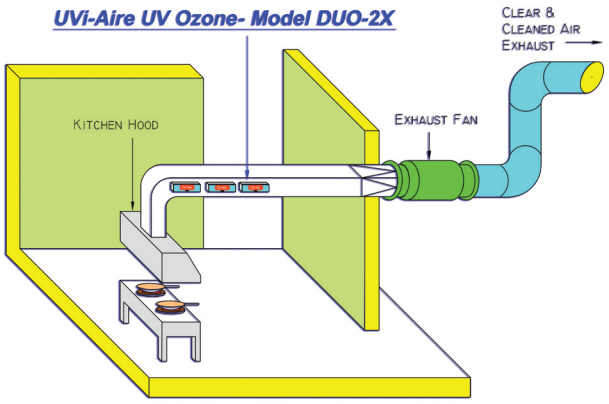


DUO TYPE: DUCT-MOUNTED UNIT

Ozone is produced by UVC lamps without the Titanium Dioxide coating that attenuates frequencies lower than 200 nanometers. At the 187 nm line, it breaks oxygen apart to form two unstable 0 which in turn fuse with another O2 to form O3. Ozone is a powerful oxidant and extremely effective germicidal agent which destroys organic molecules in the air as well as grease and oil from kitchen exhaust. It has a very short lifespan and in ambient temperatures, it will only last 20 to 30 minutes before it returns to normal oxygen O2.



Ozone is suicidal molecule; it looks for a contaminant to attack, oxidizing it and destroying itself in the process.



UVC Ozone is also a scientific breakthrough in odour and grease control, the most effective method known today for eliminating unpleasant odours, grease and oil mist in processing areas. However, in cases where a lot so smoke is generated during the cooking process such as char-grilling, the use of an industrial electronic air cleaner or electrostatic precipitator (EP) is recommended.

UVI-AIRE DUO DUCT-MOUNTED UVC OZONE

Units are designed for easy mounting to existing or new exhaust ducts. The ballast housing and other components are kept out of the air stream. Lamps can be easily replaced via the ballast housing. Multiple units can be connected and linked to a separate control unit for interlocking operations with the exhaust fan. The control unit is an optional item.

DUO units should be installed as near to the cooking hoods as possible, or as far as possible from the discharge outlet, so as to give the longest possible contact time with the cooking exhaust. For optimum performance, the contact time for air treatment in the duct should be approximately 0.1 to 0.2 seconds or longer if possible. Charcoal filters may be installed at the last stage to mop up residue ozone

FEATURES & BENEFITS

- Compact Design
- Quick and Easy Installation
- Easy Maintenance
- Reduces Duct Cleaning
- Operations Indicator LEDs
- Interlock Control Panel
- No Pressure Drop
- Fits All Exhaust Ducts
- No Noise

Model No:	Input Voltage	Watts	Lamp Length	No. of Lamps	Lamp Life	Capacity (CMH)
DUO-1X300	230 Volts AC	45 Watts	300mm	1	9000 Hrs	1000CMH
DUO-1X400	230 Volts AC	60 Watts	400mm	1	9000 Hrs	1500CMH
DUO-2X300	230 Volts AC	90 watts(45Wx2)	300mm	2	9000 Hrs	2000CMH
DUO-2X400	230 Volts AC	120Watts(60wx2)	400mm	2	9000 Hrs	3000CMH

Ballast Housing : Mild steel, Epoxy Coated

- Dimensions: DUO-1 250mm x 155mm x 90mm, DUO-2 490mm x 155mm x 90mm
- The required number of units depends on the exhaust airflow rate.

Warning: Avoid direct exposure to UVC/Ozone radiation. The power supply for the UVC/Ozone lamps shall be interlocked with the kitchen exhaust fan and automatically switched off during routine maintenance.

DUCT MOUNTED • OZONE FREE

BI-POLAR IONIZATION


UBM 20

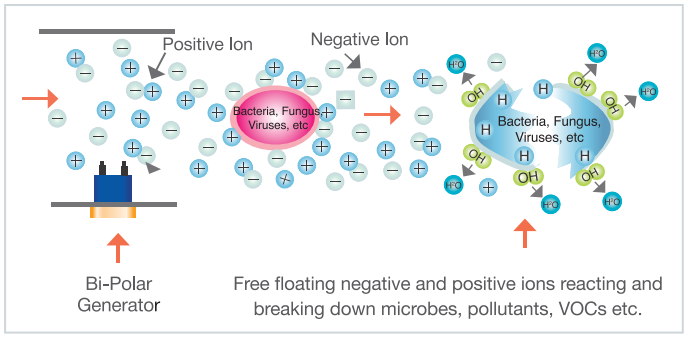

UBM 20
(Induct Mounting)


UBP 2500A/5000A


UBP 7500A/10000A

The Needlepoint Bipolar Ionization process releases large amounts of negative and positive ions. These ions are forced out through the building HVAC system and travel into spaces throughout the building. These ions attach to, and deactivate harmful substances like bacteria, mould, allergens, viruses and volatile organic compounds, odours, VOCs including formaldehyde.

Airborne Particle Removal - The ions also attach to expelled droplets and dust particles that can transport viruses, enlarging them in a process called agglomeration, making them drop out of breathing area and also which them easier to be caught in the filters.



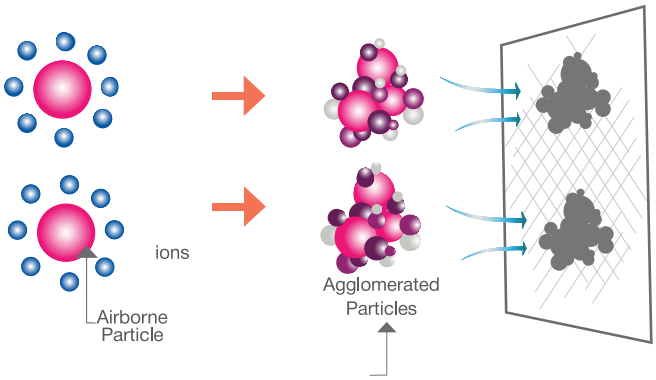
GENERAL SPECIFICATIONS

Installation Type	Duct Mounted
Electrical Connection :	
UBP2500A/5000A/7500A/10000A	3 Pin Plug (UK)
UBM20/UBM20 (Induct Mounting)	2 Wire AC
Ionization Type	Needlepoint Brushes
Max Operating Temperature	50°C
Life	3-5 Years*
Pressure Drop	<10Pa
Automatic/Manual Airflow Switch	YES Except UBM20/UBM20 (Induct Mounting)
UL2998 Ozone Limit	Comply#

** subject to daily hours of operation and maintenance of brushes*

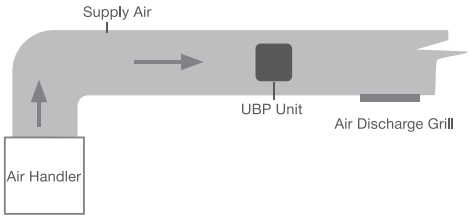
 # UL2998 specifies Ozone Emission at not more than 0.005 ppm to qualify as Ozone Free. RydAiR units are in compliance with this specification.

AIRBORNE PARTICLE AGGLOMERATION EFFECT



The ions attach to the particle, the particle grows larger by attracting nearby particles of the opposite polarity, thereby increasing the filtration effectiveness, or falls to the ground and out of breathing zone.

TYPICAL INSTALLATION



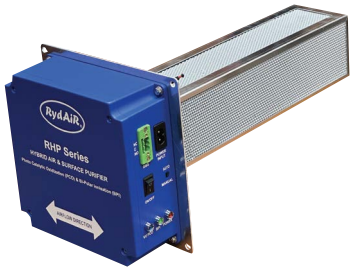
SPECIFICATIONS

Model	Airflow (Max)	Power Consumption	Dimension	Housing Type	Weight
UBM-20*	2500CFM / 4250CMH	220-240VAC 1 Watt, 50/60Hz	60x30x30mm	Epoxy Potted	100gm
UBM20 (Induct Mounting)	2500CFM / 4250CMH	220-240VAC 1 Watt, 50/60Hz	105x75x50mm	ABS Plastic	250gm
UBP-2500A	2500CFM / 4250CMH	220-240VAC 3 Watts, 50/60Hz	205x120x75mm	Powder Coated Steel	1.4kg
UBP-5000A	5000CFM / 8500CMH	220-240VAC 5 Watts, 50/60Hz	205x120x75mm	Powder Coated Steel	1.5kg
UBP-7500A	7500CFM / 12,750CMH	220-240VAC 8 Watts, 50/60Hz	285x180x75mm	Powder Coated Steel	2.4kg
UBP-10000A	10000CFM / 17,000CMH	220-240VAC 10 Watts, 50/60Hz	285x180x75mm	Powder Coated Steel	2.3kg

• Separate product brochure is available for UBM-20

HYBRID AIR & SURFACE PURIFIER (Duct Mounted)

RHP Series

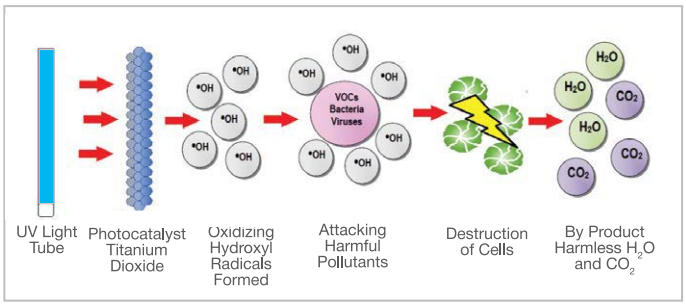


RydAiR's RHP units employ dual technologies: Photo Catalytic Oxidization (PCO) and Bi-Polar Ionization (BPI) for effective surface and air purification.

Photo Catalytic Oxidization (PCO) uses the concept of photocatalysis where the core principle involves using a UV light source and a catalyst of rare metals to break down pollutants.

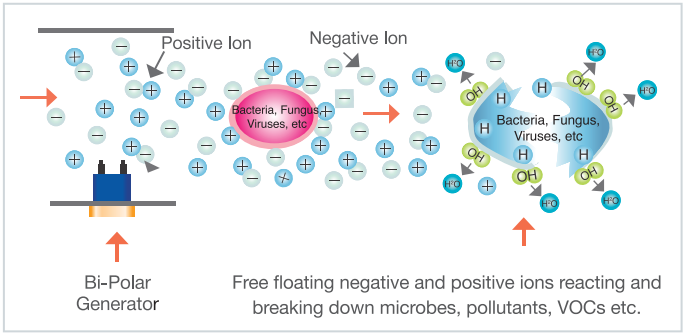
The special UV lamp reacts with photocatalyst impregnated with rare materials in the RHP units and converts moisture/ water vapour (H^2O) and oxygen O^2 in the untreated air and breaks them up into hydroperoxides (H^2O^2) and Hydroxyls which are highly reactive

These hydroxyl radicals are small and agile and gets pushed into the environment where they attack bigger organic pollutant molecules like fungi, mould, odour causing bacteria, molds, VOCs and viruses, even the ones in hard to reach places, breaking apart their chemical bonds and turning them into harmless substances such as carbon dioxide and water.

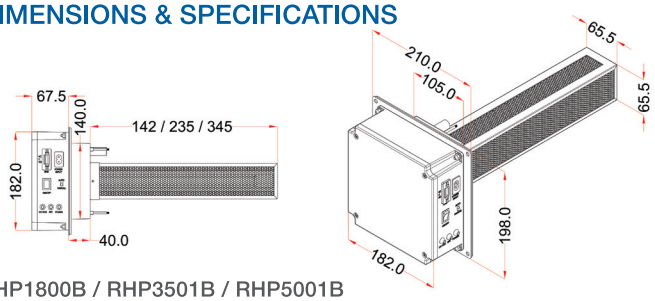


BPI Technology

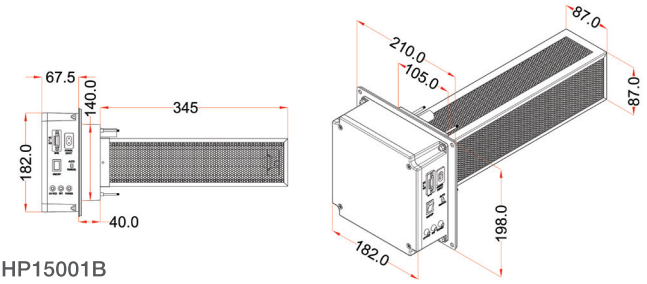
The Needlepoint Bipolar Ionization (BPI) process releases large amounts of negative and positive ions. These ions are forced out through the building HVAC system and travel into spaces throughout the building. These ions attach to, and deactivate harmful substances like bacteria, mould, allergens, viruses and volatile organic compounds, odours, VOCs including formaldehyde.



DIMENSIONS & SPECIFICATIONS

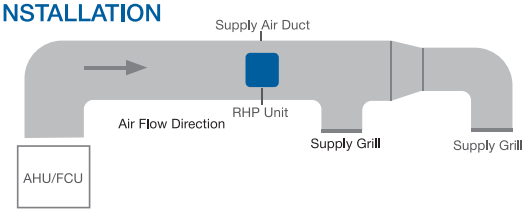


RHP1800B / RHP3501B / RHP5001B



RHP15001B

TYPICAL INSTALLATION



APPLICATIONS

- Homes
- Classrooms
- Clinics
- Hospitals
- Nursing Homes
- Child Care Centres
- Banking Halls
- Public Lobbies
- Gymnasiums
- Food and Beverages outlets
- Food Storage Areas
- Showrooms and many other areas

FEATURES

- Quick & Easy Installation
- Auto/Manual Airflow switch
- BMS (Building Management System) Terminals

SPECIFICATIONS

Model	Type	Power	Weight	Inserted Length	High Pollution	Low Pollution
RHP 1800B	Ozone Free	220-240VAC 0.1A 12W	1.2kg	190mm	1500CFM/2500CMH	3000CFM/5000CMH
RHP 3501B	Ozone Free	220-240VAC 0.12A 16W	1.3kg	280mm	2500CFM/4000CMH	6000CFM/1000CMH
RHP 5001B	Ozone Free	220-240VAC 0.14A 20W	1.4kg	390mm	3500CFM/6000CMH	8500CFM/15000CMH
RHP 15001B	Ozone Free	220-240VAC 0.15A 23W	1.5kg	390mm	8500CFM/15000CMH	20000CFM/36000CMH

FGD-KT Series



FGD20KTSS



FGD40KTSS

Ozone is a powerful oxidant and bactericide and is sometimes called “activated oxygen”, or “triatomic oxygen”, contains three atoms of oxygen rather than the two atoms we normally breathe.

Ozone is an effective method for eliminating unpleasant odours in garbage/sewage treatment rooms, grease and oil mist in cooking processing areas and other areas where odour is a problem.

FGD-KT Series

UVIAIRE’s FGD-KT unit is an Ozone Generator producing high volume of ozone via the corona discharge method.

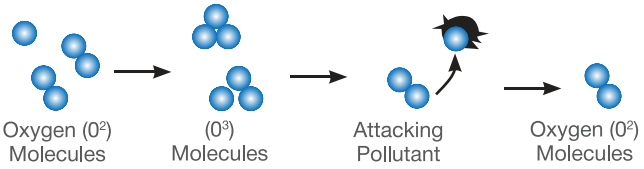
Air is drawn through a blower fan across the corona tubes powered by high tension transformers.

The oxygen in the air is converted into ozone which is discharged through the 100mm diameter nozzle into the desired area where the ozone reacts with contaminants.

Housing is in stainless steel to prevent corrosion from ozone, and for long lasting operation.

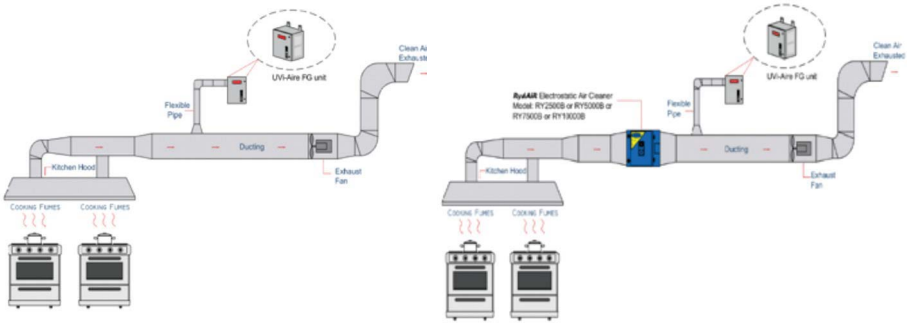
FGD-KT units have Adjustable Ozone Levels:

FGD-20KTSS, Low, High - Up to 20gm/hr
FGD-40KTSS, Low, High - Up to 40gm/hr



Ozone is suicidal molecule; it looks for a contaminant to attack, oxidizing it and destroying itself in the process.

TYPICAL INSTALLATION



The FGD-KT unit is a self contained unit with a 100mm diameter nozzle on one end to direct ozone to the required area by means of flexible or rigid ducts. Its small size makes it flexible for installation in various locations. As the FGD-KT unit produces high levels of ozone, it operations should be interlocked with the exhaust fans if it is set to Manual Mode for safety reasons.

FEATURES

- Compact Design
- Simple Installation
- Fits All Exhaust Ducts
- Easy Retrofits To Existing Ducts
- No Pressure Drop
- Easy Maintenance
- Reduces Duct Cleaning
- Auto or Manual Mode
- Standby and Operational LEDs
- 24 Hours Continuous Operation

APPLICATIONS

- Kitchen Exhausts
- Garbage Rooms
- Sewage Treatment Rooms
- Seafood Storage Areas
- Fresh Food Stores
- Other Areas with Odour Problems

SPECIFICATIONS

Model	Dimension WxHxD(mm)	Weight	Voltage	Power Consumption	Ozone Output	Maximum Airflow
FGD-20KTSS	510 x 440 x 221	17.3Kg	220-240VAC	175W / 0.9A	Up to 20gm/hr	Up to 20,000CMH
FGD-40KTSS	570 x 470 x 246	23Kg	220-240VAC	335W / 1.8A	Up to 40gm/hr	Up to 40,000CMH

Remarks: Air Flow handling capacity depends on odour level. For heavier odour, a ratio of the maximum airflow is considered. Hence the air handling capacity shall be reduced to 0.25 for heavy odour and 0.5 for medium odour problem. **For light odour, the Maximum airflow capacity applies.**



RHP 1600 / RHP 3301

HYBRID AIR & SURFACE PURIFICATION

With PCO & Bi-POLAR TECHNOLOGIES

RydAiR's **RHP** units employ dual technologies : Photo Catalytic Oxidization **(PCO)** and Bi-Polar Ionisation **(BPI)** for effective air and surface purification.

RHP 1600 and **RHP 3301** are designed for use in Fan Coil Units (FCU). They come with magnetic base for simple attachment to the internal surface of the FCU plenum. Pre-drilled holes are also provided for non metal surface installation. These may be installed in the supply or return air side of the FCU.

HOW IT WORKS:

Inside the **PCO** chamber, a special UV light interacts with a rare metal filter. This reaction breaks down normal moisture and oxygen in the air into powerful cleaning molecules called hydroxyl radicals.

These tiny, fast-moving molecules travel into your room to attack complex pollutants like mould, viruses, bacteria, VOCs, and odours. By destroying the chemical bonds of these germs even in hidden corners it safely turns them into harmless water and carbon dioxide.

This proven technology eliminates up to 99% of surface germs and drastically cuts down on air-borne allergies and illness-causing pathogens like E.coli, MRSA, and coronavirus strains.

Needlepoint Bipolar Ionization **(BPI)** is a continuous cleaning system that releases safe positive and negative ions into the air. These ions travel through the building to destroy 95% of germs, mould, odours, and harmful chemicals including VOCs like formaldehyde in just a few minutes. BPI is highly effective at killing common viruses like the flu, norovirus, and SARS on both surfaces and in the air.

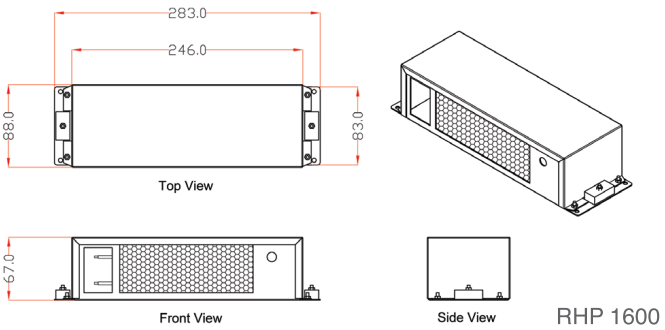
BENEFITS:

Maintain good Indoor Quality.
Eliminates Sick Building Syndrome.
Prolonged Freshness of Fresh Produce & Fruits.
Reduces Odors.

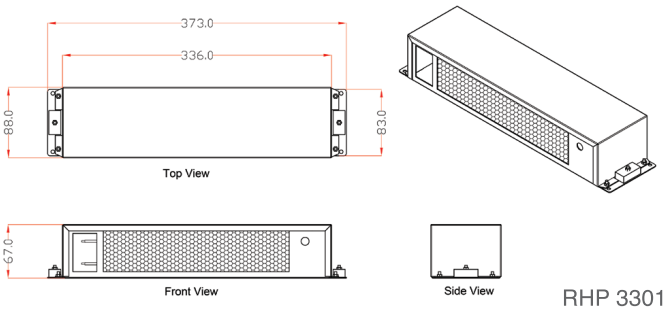
SPECIFICATIONS:

	RHP 1600	RHP 3301
Input Voltage	230VAC	230VAC
Power	0.12A, 12W	0.14A, 16W
Dimension	283 x 88 x 67mm	373 x 88 x 67mm
Housing Material	1mm Aluminium	1mm Aluminium
Weight	560 grams	640 grams
Airflow	500 -1600CMH	1700 -3300CMH
Pressure Drop	<5Pa	<5Pa
Lamp Life	10,000 hours	10,000 hours

Special Feature: Magnetic Base for quick and simple installation on metal surfaces.



RHP 1600



RHP 3301

APPLICATIONS:

Airconditioning System of Offices, Hotel Rooms etc.
Airconditioning System of Buses and Trains
Food and Fresh Produce Display Cabinets
Airconditioning System of Food, Fresh Produce areas
Any area where air purification and prolonged food freshness is desired.



BI-POLAR IONIZATION

PLASMA AIR PURIFIER / STERILIZER

Ozone Free

UBP 2500F with Airflow Sensor

The UBP2500F is a compact unit equipped with an automatic airflow sensor that turn on the unit when airflow is detected. Besides energy conservation, this will also extend the life of the unit.

The UBP2500F is specially designed to be installed in ceiling mounted FCUs. As it is installed in the return air side it helps to purify the cool-ing coil.

It can also be installed in any air intake/return or supply air positions of any ventilation or air conditioning units like elevators ventilation, hotel rooms FCUs etc.

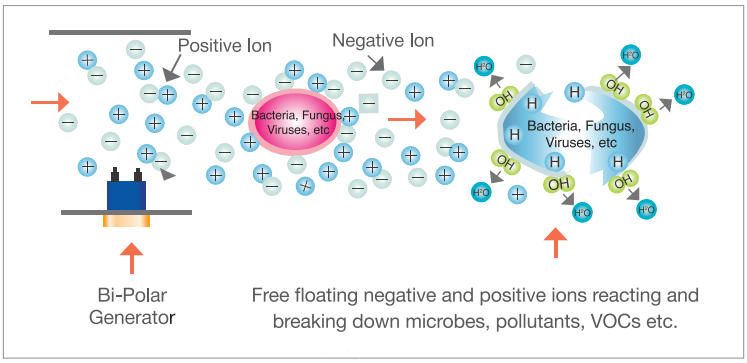
Installation is a simple , via 2 screws on any suitable position and a 2 wire connection is to any 220-240VAC supply.

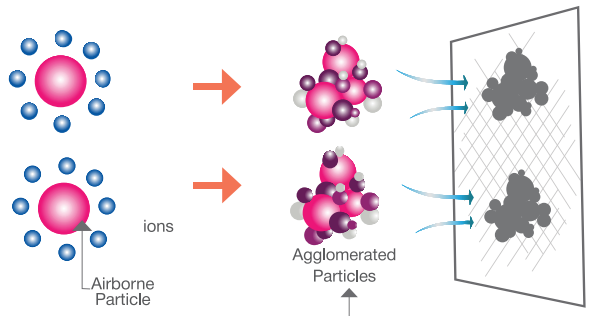
The Bipolar ionization process releases large amounts of charged ions that attach to, and deactivate harmful substances like bacteria, mould, allergens, and viruses.

The ions produces a chemical reaction on the cell membrane surface that inactivate the virus. It can reduce up to 95% of microbes in minutess. It is an Active Process that provides continuous disinfection.

The ions also attach to expelled droplets and dust particles that can transport viruses, enlarging them in a process called agglomeration, making them drop out of breathing area and also which them easier to be caught in the filters.

Bi-Polar ionisation has already been proven as effective against various influenza strains as well as norovirus, SARs and other corona virus like H1N1.





The ions attach to the particle, the particle grows larger by attracting nearby particles of the opposite polarity, thereby increasing the filtration effectiveness, or falls to the ground and out of breathing zone.

Typical Installation in Ceiling Mounted (FCU)



Specifications	
Airflow Capacity	Up to 2500cfm
Pressure Drop	<10Pa
Housing Material	ABS
Dimension H X W X D	60 x 85 x 45mm
Weight	150 gms
Max Operating Temperature	50 Deg C
Voltage/Frequency	220-240,50/60 Hz
Power Consumption	3 Watts
Ionisation Type	Needle Point Brushes
Ozone Free	Yes
Life	3-5 Years

WALL HUNG
RE-CIRCULATION MODEL

HYBRID AIR & SURFACE PURIFIER
RP 600



RP600

RydAiR's RP units employ dual technologies: Photo Catalytic Oxidization (PCO) and Bi-Polar Ionization (BPI) for effective surface and air purification, and includes a built-in fan for wall hung re-circulating air application.

Photo Catalytic Oxidization (PCO) uses the concept of photocatalysis where a special UV lamp reacts with photocatalyst impregnated with rare materials in the RP units and converts moisture/water va-pour (H^2O) and oxygen O^2 in the untreated air and breaks them up into hydroperoxides (H^2O^2) and Hydroxyls, which are highly reactive. These hydroxyl radicals are small and agile and gets pushed into the environment where they attack bigger organic pollutant molecules like fungi, mould, odour causing bacteria, molds, VOCs and viruses, even the ones in hard to reach places, breaking apart their chemical bonds and turning them into harmless substances such as carbon dioxide and water.

The Needlepoint Bipolar Ionization (BPI) process releases large amounts of negative and positive ions. These ions are forced out through the building HVAC system and travel into spaces throughout the building. These ions attach to, and deactivate harmful substances like bacteria, mould, allergens, viruses and volatile organic compounds, odours, VOCs including formaldehyde.

SPECIFICATIONS

	RP600
Dimensions. H x W x L (mm)	400mm x 140mm x 120mm
Material	Stainless Steel
Weight	2.8 Kg
Power Input	220-240VAC
Power Consumption:	35 Watts/0.15A
Installation Method	Wall Mounted
Coverage	up to 20 sq m

APPLICATIONS

- Supermarkets
- Toilets
- Gymnasiums
- Cafe
- Food/Meat/Fruits
- Vegetables Areas
- Changing Rooms
- Pantries
- Kitchen



GLOBAL DISTRIBUTION NETWORK



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80X60mm