



ELECTROSTATIC AIR CLEANERS

For Commercial & Industrial Applications



THE B SERIES

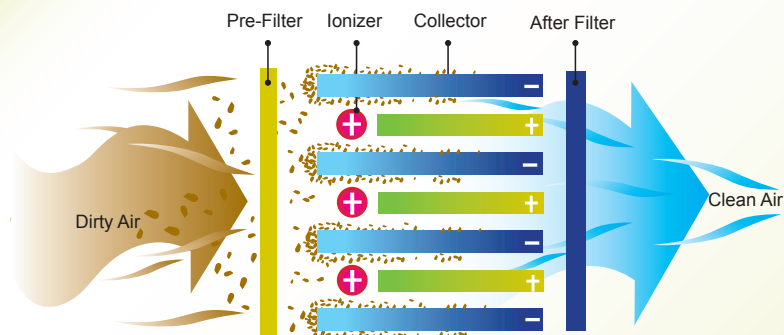
RydAiR "B Series" Electrostatic Air Cleaners help businesses keep pollutants they generate in check. This is one way to help reduce environmental pollution as well as to avoid "Dirty Air" issues with neighbours. This is especially true in densely populated cities where buildings are in close proximity of each other.

RydAiR Electrostatic Air Cleaners are also suitable for use in factories as they capture both dry and wet particulates, including dust, oil mist, cooking fumes, welding smoke and many other pollutants. RydAiR electrostatic air cleaners provide an effective, low maintenance air cleaning solution for many situations. They can be easily configured and incorporated into various types of exhaust systems of factories, restaurants workshops etc.

GREEN BUILDINGS

RydAiR units uses washable filters and has low static pressure loss. When used in Air Handling Units (AHU), its low static pressure and efficiency results in significant energy savings to qualify for **GREEN BUILDING** status. RydAiR's B series has high efficiency and meets MERV 15 requirements.

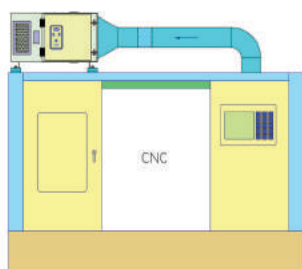
HOW IT WORKS



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

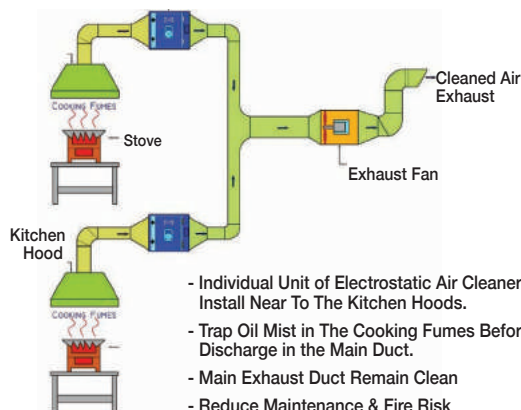
INDUSTRIAL / CNC APPLICATIONS



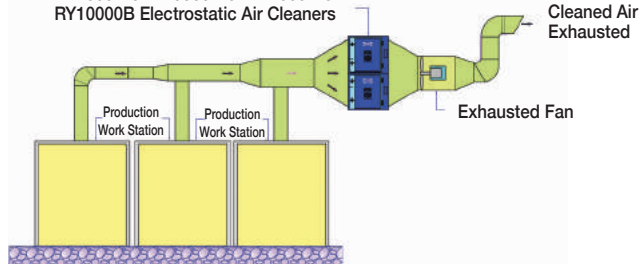
RydAiR RB700 oil mist collector

KITCHEN EXHAUST APPLICATIONS

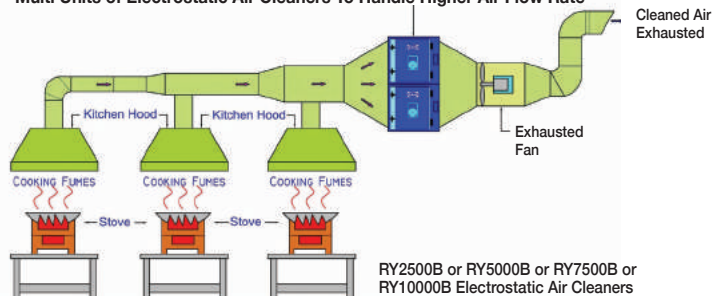
RY2500B or RY5000B or RY7500B or RY10000B Electrostatic Air Cleaners



RY2500B or RY5000B or RY7500B or RY10000B Electrostatic Air Cleaners



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





RY 2500B

Electrostatic Air Cleaner (Without Blower)

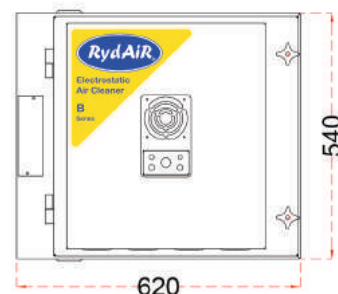


Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, Air Handling Units (AHUs), factories, workshops, CNC machine shops and many other premises.

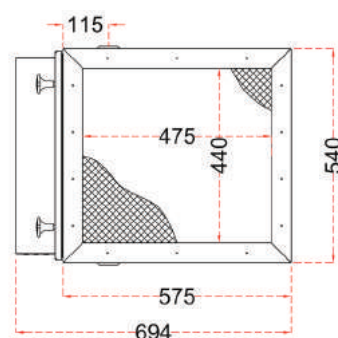


SPECIFICATIONS

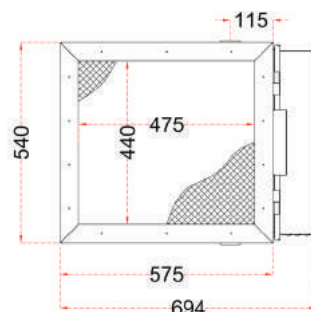
Dimensions/Weight	H: 540 x W: 694 x L: 620 mm / 55Kg
Cabinet	Galvanized Steel, 1.4mm / 16 Gauge
Finishing	Powder Coated, Dark Blue
Air Volume (Rated-Max)#	CFM: 1500-2000 max; CMH: 2500-3500 max; L/s: 700-970max
Static Pressure	50 pa / 0.2"
Voltage & Power	230 VAC +/-10% , 50/60Hz , 50Watts
Ionising Voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc
Air Flow Direction	Default : Right to Left; Reversible : Left to Right
Power Supply	High Frequency solid state and self regulating design
Features	<ul style="list-style-type: none"> *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 - 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 Ratings	Meets MERV 15 at velocity of 2.5m/s to 3.8m/s
Pre-Filter	Aluminum wire mesh, Washable x 1
Electrostatic Cell	H: 472mm, W: 550mm, L: 340mm
No of Cells / Weight	16.5Kg
No Of Plates per Cell	59
Total Collecting Area	6.07 Sq meters
Post Filter (Optional)	Aluminum Wire Mesh, Washable x 1
Installation	Ceiling Suspended; Wall or Frame Mounted, Multiple Units Stack



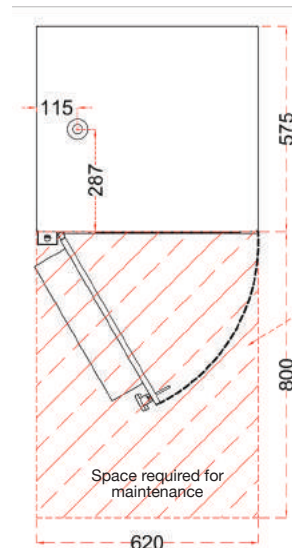
Front View



End View Air Inlet



End View



Top View

RY2500B with UV Ozone Lamp

UV Lamp



RY2500B-UV03

ODOUR CONTROL OPTION:

- UV ozone Lamp fitted after electrostatic cell
- Lamp Wattage : 65 Watts
- Ozone output : 6 Grams/Hour
- Lamp Life : 13,000 Hours
- Lamp Operation Blue LEDs on Unit's Panel
- All accessories are contained in RY Unit



RY 2500B-V

Electrostatic Air Cleaner (Without Blower)

Vertically Mounted Unit

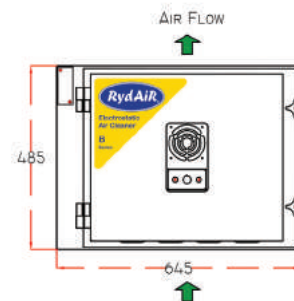


Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, factories, workshops, CNC machine shops and many other premises.

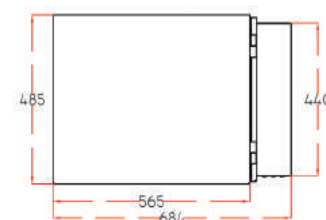


SPECIFICATIONS

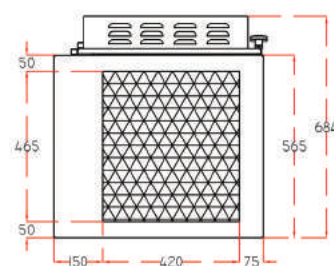
Dimensions/Weight	H:485 x D:684 x W:645mm / 50Kg
Cabinet	Galvanized Steel, 1.4mm / 16 Gauge
Finishing	Powder Coated, Dark Blue
Air Volume (Rated-Max)#	CFM: 1500-2000 max; CMH: 2500-3500 max; L/s: 700-970max
Static Pressure	50 pa / 0.2"
Voltage & Power	230 VAC +/-10%, 50/60Hz , 50Watts
Ionising Voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc
Air Flow Direction	Vertical Only
Power Supply	High Frequency solid state and self regulating design
Features	<ul style="list-style-type: none"> *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 - 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 Ratings	Meets MERV 15 at velocity of 2.5m/s to 3.8m/s
Pre-Filter	Aluminum wire mesh, Washable x 1
Electrostatic Cell	H: 472mm, W: 550mm, L: 340mm
No of Cells / Weight	1/16.5Kg
No Of Plates per Cell	59
Total Collecting Area	6.07 Sq meters
Post Filter (Optional)	Aluminum Wire Mesh, Washable x 1
Installation	Above canopy/hood, or incorporation with vertical application.



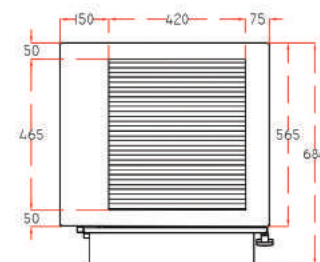
Front View



Side View



Air Intake View



Air Discharge View

RY2500BV with UV Ozone Lamp



RY2500BV-UV03

ODOUR CONTROL OPTION:

- UV ozone Lamp fitted after electrostatic cell
- Lamp Wattage : 65 Watts
- Ozone output : 6 Grams/Hour
- Lamp Life : 13,000 Hours
- Lamp Operation Blue LEDs on Unit's Panel
- All accessories are contained in RY Unit



RY 5000B

Electrostatic Air Cleaner (Without Blower)



Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical applications include commercial kitchen exhausts, Air Handling Units (AHUs), factories, workshops, CNC machine shops and many other premises.

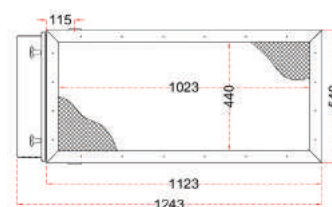


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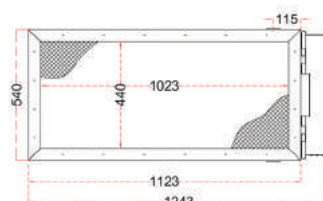
Dimensions/Weight	H:540 x W:1243 x L:620 mm / 90Kg
Cabinet	Galvanized Steel, 1.4mm / 16 Gauge
Finishing	Powder Coated, Dark Blue
Air Volume (Rated-Max)#	CFM: 3000 – 4100; CMH: 5000-7000; L/s: 1400-1900
Static Pressure	50 pa / 0.2"
Voltage & Power	230 VAC +/-10%, 50/60Hz, 75Watts
Ionising Voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc
Power Supply	High Frequency solid state and self regulating design
Air Flow Direction	Default : Right to Left; Reversible : Left to Right
Features	<ul style="list-style-type: none"> *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 - 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 Ratings	Meets MERV 15 at velocity of 2.5m/s to 3.8m/s
Pre-Filter	Aluminum wire mesh, Washable x 2
Electrostatic Cell	H: 472mm, W: 550mm, L: 340mm
No of Cells / Weight	2/16.5Kg
No Of Plates per Cell	59
Total Collecting Area	12.14 Sq meters
Post Filter (Optional)	Aluminum Wire Mesh, Washable x 2
Installation	Ceiling Suspended; Wall or Frame Mounted, Multiple Units Stack



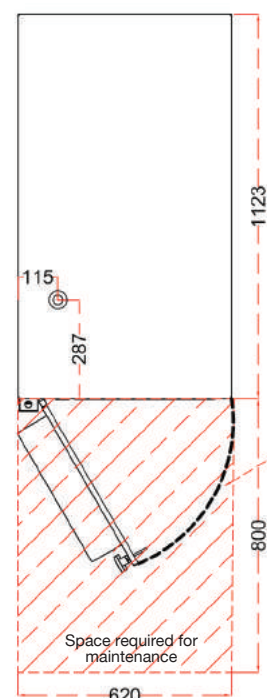
Front View



Air Intake View

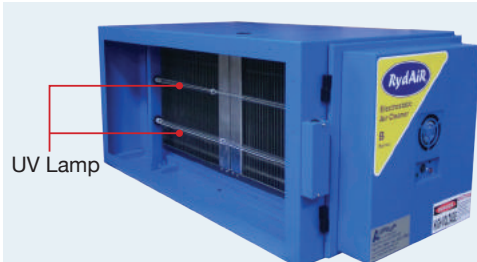


Air Discharge View



Top View

RY5000B with UV Ozone Lamp



RY5000B-UV03

ODOUR CONTROL OPTION:

- UV ozone Lamp fitted after electrostatic cell
- Lamp Wattage : 150 watts (75 W x 2 lamps)
- Ozone output : 14 Grams/Hour
- Lamp Life : 13,000 Hours
- Lamp Operation Blue LEDs on Unit's Panel
- All accessories are contained in RY Unit



RY 7500B

Electrostatic Air Cleaner (Without Blower)



Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, Air Handling Units (AHUs), factories, workshops, CNC machine shops and many other

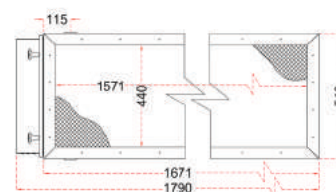


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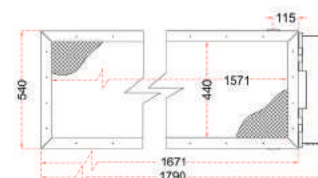
Dimensions/Weight	H:540 x W:1790 x L:620 mm /122Kg
Cabinet	Galvanized Steel, 1.4mm / 16 Gauge
Finishing	Powder Coated, Dark Blue
Air Volume (Rated-Max)#	CFM: 4500-6100; CMH: 7500-10,500; L/s: 2100-2900
Static Pressure	50 pa / 0.2"
Voltage & Power	230 VAC +/-10%, 50/60Hz, 105Watts
Ionising Voltages	High Voltage: 12KVdc , Low Voltage: 6KVdc
Air Flow Direction	Default : Right to Left; Reversible : Left to Right
Power Supply	High Frequency solid state and self regulating design
Features	<ul style="list-style-type: none"> *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 - 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 Ratings	Meets MERV 15 at velocity of 2.5m/s to 3.8m/s
Pre-Filter	Aluminum wire mesh, Washable x 3
Electrostatic Cell	H: 472mm, W: 550mm, L: 340mm
No of Cells / Weight	3/16.5Kg
No Of Plates per Cell	59
Total Collecting Area	18,21 Sq meters
Post Filter (Optional)	Aluminum Wire Mesh, Washable x 3
Installation	Ceiling Suspended; Wall or Frame Mounted, Multiple Units Stacked



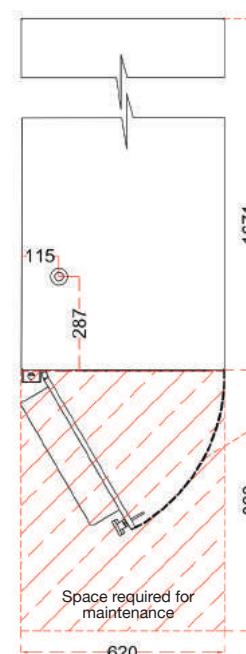
Front View



Air Intake View

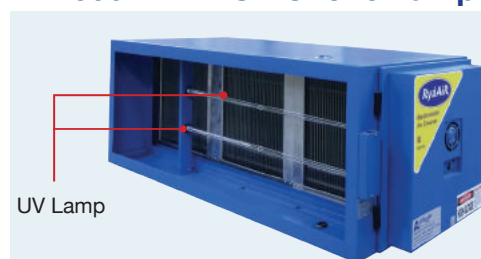


Air Discharge View



Top View

RY7500B with UV Ozone Lamp



RY7500B-UV03

ODOUR CONTROL OPTION:

- UV ozone Lamp fitted after electrostatic cell
- Lamp Wattage : 180 Watts (90W x 2 Lamps)
- Ozone output : 16 Grams/Hour
- Lamp Life : 13,000 Hours
- Lamp Operation Blue LEDs on Unit's Panel
- All accessories are contained in RY Unit



RY 10000B

Electrostatic Air Cleaner (Without Blower)



Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, Air Handling Units (AHUs), factories, workshops, CNC machine shops and many other premises

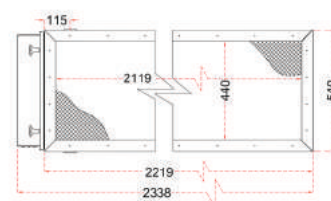


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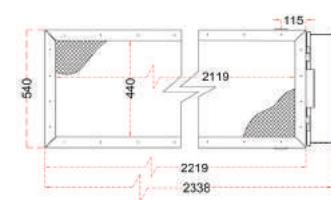
Dimensions/Weight	H:540 x W:2338 x L:620 mm / 154Kg
Cabinet	Galvanized Steel, 1.4mm / 16 Gauge
Finishing	Powder Coated, Dark Blue
Air Volume (Rated-Max)#	CFM: 6000-8200; CMH: 10000-14000 L/s: 2800-3800
Static Pressure	50 pa / 0.2"
Voltage & Power	230 VAC +/-10%, 50/60Hz, 125Watts
Ionising Voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc
Air Flow Direction	Default : Right to Left; Reversible : Left to Right
Power Supply	High Frequency solid state and self regulating design
Features	<ul style="list-style-type: none"> *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 - 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 Ratings	Meets MERV 15 at velocity of 2.5m/s to 3.8m/s
Pre-Filter	Aluminum wire mesh, Washable x 4
Electrostatic Cell	H: 472mm, W: 550mm, L: 340mm
No of Cells / Weight	4/16.5Kg
No Of Plates per Cell	59
Total Collecting Area	24.28 Sq meters
Post Filter (Optional)	Aluminum Wire Mesh, Washable x 4
Installation	Ceiling Suspended; Wall or Frame Mounted, Multiple Units Stack



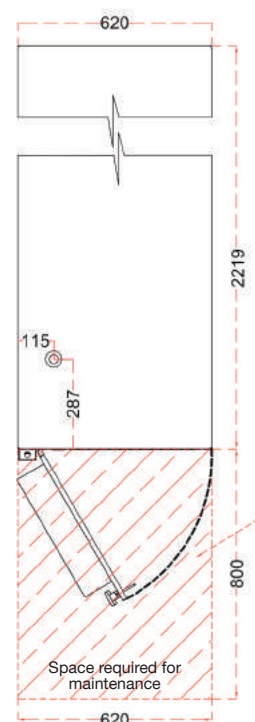
Front View



Air Intake View



Air Discharge View



Top View

RY10000B with UV Ozone Lamp



RY10000B-UV03

ODOUR CONTROL OPTION:

- UV ozone Lamp fitted after electrostatic cell
- Lamp Wattage : 180 watts (75 W x 2 lamps)
- Ozone output : 16 Grams/Hour
- Lamp Life : 13,000 Hours
- Lamp Operation Blue LEDs on Unit's Panel
- All accessories are contained in RY Unit



RB 2400B RB 2400B-F

Electrostatic Air Cleaner (With Blower)
Ducted or Free Flow Application

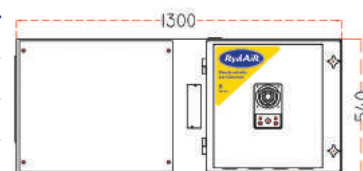


Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, factories, workshops, CNC machine shops and many other premises. **Model RB2400B is for ducted operations** and has an external static pressure of 150pa. **RB2400B-F is for free flow operations** and is not provided any external static pressure.

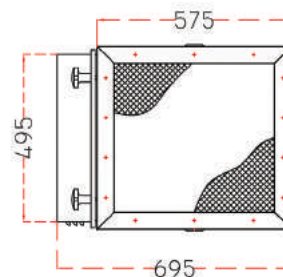


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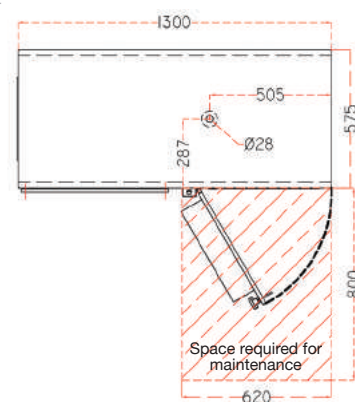
Dimensions/Weight	H:540 x W:695 x L:1300 mm / 125Kg
Cabinet	Galvanized Steel, 1.5mm / 16 Gauge
Finishing	Powder Coated, Dark Blue
Air Volume	CFM: 1400; CMH: 2400 L/s: 667
Static Pressure (Ext) #	RB 2400B : 150pa, RB2400-F : 0 pa
Voltage & Power	230 VAC +/-10%, 50/60Hz, 1150Watts
Ionising Voltages	High Voltage: 12KVdc , Low Voltage: 6KVdc
Air Flow Direction	Default : Right to Left; Reversible : Left to Right
Power Supply	High Frequency solid state and self regulating design
Features	<ul style="list-style-type: none"> *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 - 10 microns
Motor	1.5HP, 1420RPM, 6Amp Max. Single Phase, CSA approved.
Blower Fan	Centrifugal Forward Curve Impeller
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 Ratings	Meets MERV 15 at velocity of 2.5m/s to 3.8m/s
Pre-Filter	Aluminum wire mesh, Washable x 1
Electrostatic Cell	H: 472mm, W: 550mm, L: 340mm
No of Cells / Weight	1/16.5Kg / Cell
No Of Plates per Cell	59
Total Collecting Area	6.07 Sq meters
Post Filter (Optional)	Aluminum Wire Mesh, Washable x 1
Installation	Ceiling Suspended; Wall or Frame Mounted.



Front View



Air Intake View



Top View



RB 4800B RB 4800B-F

Electrostatic Air Cleaner (With Blower)
Ducted or Free Flow Application

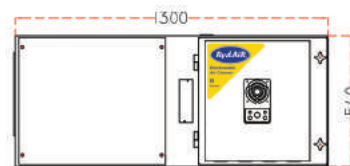


Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, factories, workshops, CNC machine shops and many other premises. **Model RB 4800B is for ducted operations** and has an external static pressure of 150pa. **RB 4800B-F is for free flow** operations and is not provided any external static pressure.

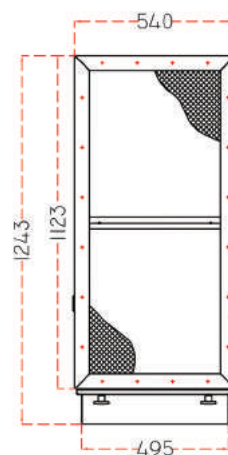


SPECIFICATIONS

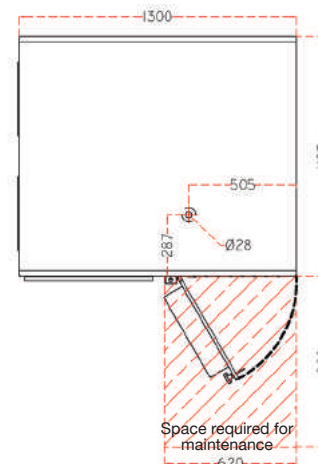
Dimensions/Weight	H:540 x W:1243 x L:1300 mm / 180Kg
Cabinet	Galvanized Steel, 1.5mm / 16 Gauge
Finishing	Powder Coated, Dark Blue
Air Volume	CFM: 2800; CMH: 4800 L/s: 1335
Static Pressure (Ext) #	RB 4800B : 150pa, RB4800-F : 0 pa
Voltage & Power	230 VAC +/-10%, 50/60Hz, 1175Watts
Ionising Voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc
Air Flow Direction	Default : Right to Left; Reversible : Left to Right
Power Supply	High Frequency solid state and self regulating design
Features	<ul style="list-style-type: none"> *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 - 10 microns
Motor	1.5HP, 1420RPM, 6.2Amp Max. Single Phase, CSA approved.
Blower Fan	Centrifugal Forward Curve Impeller
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 Ratings	Meets MERV 15 at velocity of 2.5m/s to 3.8m/s
Pre-Filter	Aluminum wire mesh, Washable x 2
Electrostatic Cell	H: 472mm, W: 550mm, L: 340mm
No of Cells / Weight	2/16.5Kg/Cell
No Of Plates per Cell	59
Total Collecting Area	12.14 Sq meters
Post Filter (Optional)	Aluminum Wire Mesh, Washable x 2
Installation	Ceiling Suspended; Wall or Frame Mounted.



Front View



Air Intake View



Top View



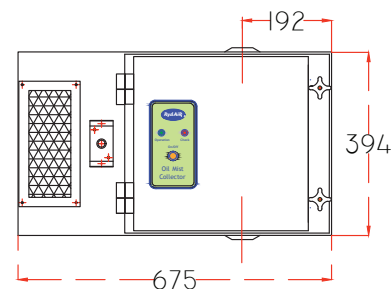
RB 700

Electrostatic Air Cleaner (with Blower)

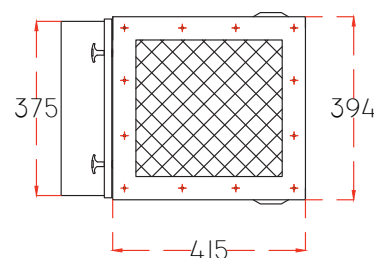
Ducted or Free Flow Operation



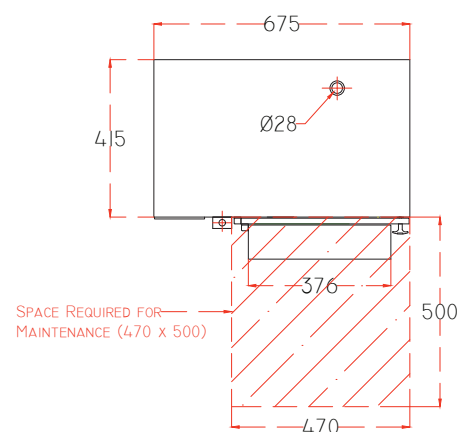
Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, factories, workshops, CNC machine shops and many other premises. RB700 is also compact enough to be installed in small mobile cooking stations or in residential kitchens



Front View



Air Intake View



Top View

SPECIFICATIONS

Dimensions/Weight	H:394 x W:415 x L:675 mm / 30 Kg
Cabinet	Galvanized Steel, 1.5mm / 16 Gauge
Finishing	Powder Coated, Beige Colour
Air Volume	H: 700Cmh M: 500Cmh L:280Cmh
Static Pressure (Ext)	120 pa
Voltage & Power	230 VAC +/-10% , 50/60Hz , 350 Watts
Ionising Voltages	High Voltage: 12KVdc , Low Voltage: 6KVdc
Air Flow Direction	Rigth to Front. Left to Front.
Power Supply	High Frequency solid state and self regulating design
Features	*Short circuit, arc protection and auto restore power supply *Auto power cut-off when door is opened *Indicator LEDs for normal or wash indicator
Particle size	From 0.01 microns - 10 microns
Blower Fan	Double Inlet Centrifugal Fan
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%
Pre-Filter	Aluminum wire mesh, Washable x 1
Electrostatic Cell	H: 335mm, W:405mm, L:253mm
No of Cells / Weight	1/8Kg
Installation	Ceiling Suspended; Wall or Frame Mounted.



RY 1200 (Without Blower)

RB 1000 (With Blower)



Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants Typical application include commercial kitchen exhausts, factories, workshops, CNC machine shops and many other premises.

Model RY1200 is without the blower. It is designed for applications where external source of air flow is available, or for incorporation into other air filtration systems.

Model RB1000 is RY1200 with a blower section attached for stand- alone operation.



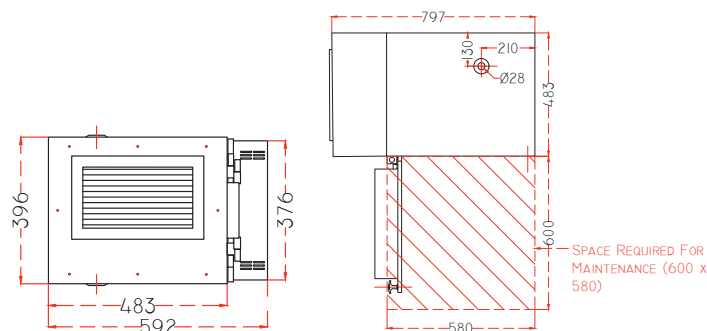
SPECIFICATIONS - RB1000

Dimensions/Weight	H:396 x W:592 x L:797mm / 50Kg
Blower	Double Inlet Centrifugal Fan
Power Consumption	230Vac 50/60hz 350 Watts
Air Volume Max	1000 Cmh
Static Pressure (Ext)	100 pa
Air Flow Direction	Right To Left, Left to Right

All other specifications are according to RY1200

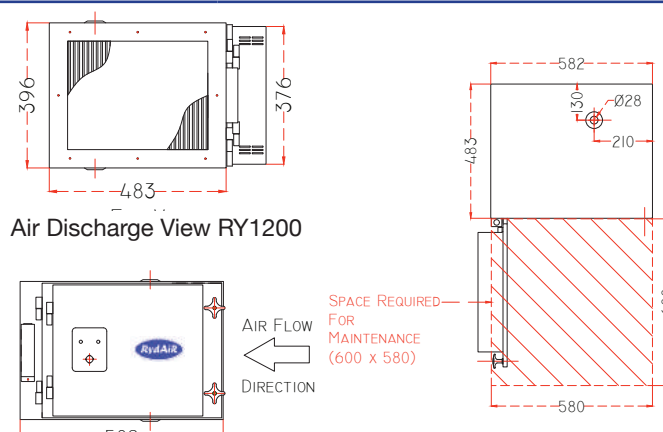
SPECIFICATIONS - RY1200

Dimensions/Weight	H:396 x W:592 x L:582mm / 42Kg
Cabinet	Galvanized Steel, 1.5mm / 16 Gauge
Finishing	Powder Coated, Beige Colour
Air Volume Max	1200 Cmh
Static Pressure Drop	50 pa
Voltage & Power	230 VAC +/-10% , 50/60Hz, 40 watts
Ionising Voltages	High Voltage: 12KVdc, Low Voltage: 6KVdc
Air Flow Direction	Default : Right to Left; Reversible : Left to Right
Power Supply	High Frequency solid state and self regulating design
Features	*Short circuit, arc protection and auto restore power supply *Auto power cut-off when door is opened *Indicator LEDs for normal or wash indicator
Particle size	From 0.01 microns - 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%
Pre-Filter	Aluminum wire mesh, Washable x 1
Electrostatic Cell	H: 330mm, W:320mm, L:470mm
No of Cells/Weight	1/11Kg
Installation	Ceiling Suspended; Wall or Frame Mounted.



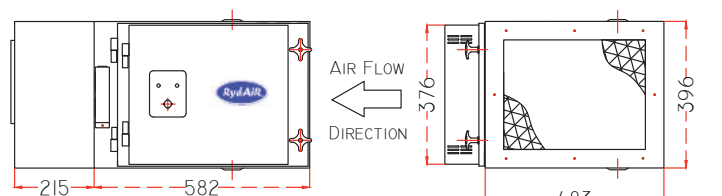
Air Discharge View RB1000

Top View RB1000



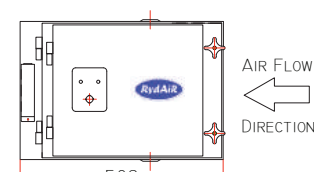
Air Discharge View RY1200

Top View RY1200



Front View RB1000

Air Intake View RY1200/RB1000



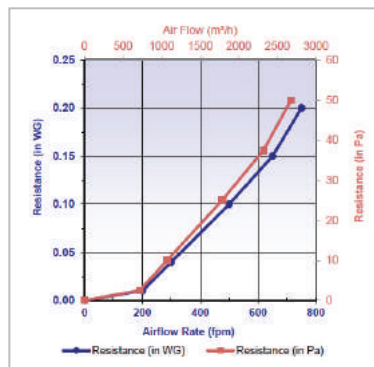
Front View RY1200

RydAiR's B series are tested for efficiency and static pressure drops under ASHRAE 52-2 and EN779 DOP Test. Extracts are reproduced for reference

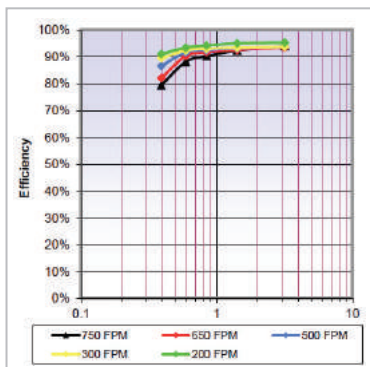
INDEPENDENT THIRD PARTY TEST REPORTS

By U.S. Based Laboratory

ASHRAE 52.2-2012 TEST Report



Air Flow vs Resistant Clean Device



Efficiency vs Particle Size

Particle Removal Efficiency %

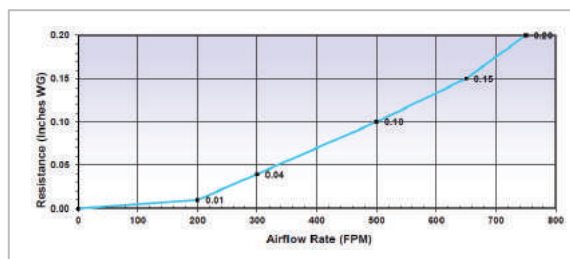
AVERAGE PARTICLE SIZE	200 FPM	300 FPM	500 FPM	650 FPM	750 FPM
0.30 - 1.0 um	94	92	92	91	91
1.0 - 3.0um	95	93	93	94	93
3.0 - 10.0 um	96	95	95	96	95
Resistance (in W.G.)	0.01	0.04	0.1	0.15	0.2

Test results indicate that RydAiR units meet MERV 15 requirements even at velocity of 3.81 m/s (750 FPM)
See table below.

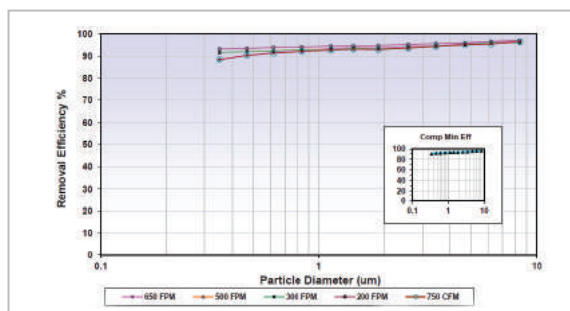
Standard 52.2 Minimum Efficiency Reporting Value (MERV)	Composite Average Particle Size Efficiency, % in Size Range, um			
	Range 1 (0.3-1.0)	Range 2 (1.0-3.0)	Range 3 (3.0-10.0)	Average Arrestance, %
1	n/a	n/a	E3 < 20	Aavg < 65
2	n/a	n/a	E3 < 20	65 ≤ Aavg < 70
3	n/a	n/a	E3 < 20	70 ≤ Aavg < 75
4	n/a	n/a	E3 < 20	75 ≤ Aavg
5	n/a	n/a	20 ≤ E3 < 35	n/a
6	n/a	n/a	35 ≤ E3 < 50	n/a
7	n/a	n/a	50 ≤ E3 < 70	n/a
8	n/a	20 ≤ E2	70 ≤ E3	n/a
9	n/a	35 ≤ E2	75 ≤ E3	n/a
10	n/a	50 ≤ E2 < 65	80 ≤ E3	n/a
11	20 ≤ E1	65 ≤ E2 < 80	85 ≤ E3	n/a
12	35 ≤ E1	80 ≤ E2	90 ≤ E3	n/a
13	50 ≤ E1	85 ≤ E2	90 ≤ E3	n/a
14	75 ≤ E1 < 85	90 ≤ E2	95 ≤ E3	n/a
15	85 ≤ E1 < 95	90 ≤ E2	95 ≤ E3	n/a
16	95 ≤ E1	95 ≤ E2	95 ≤ E3	n/a

**Above is the requirement of Merv 15-ASHRAE Standard 52.2-2012

EN779 DOP Test Report



Air Flow vs Resistant Clean Device



Particle Size Removal Efficiency

Particle Removal Efficiency %

AVERAGE PARTICLE SIZE	200 FPM	300 FPM	500 FPM	650 FPM	750 FPM
0.30 - 0.50um	91.1	89.5	86.6	82.2	79.5
0.50 - 0.70 um	93.4	92.4	91.7	90.3	88.1
0.70 - 1.0 um	94.3	93	92.6	91.8	90.3
1.00 - 2.00 um	95.1	93.4	93.2	92.6	92.4
2.00 - 5.00 um	95.4	93.8	93.8	93.5	94
Resistance (in W.G.)	0.01	0.04	0.1	0.15	0.2

RydAiR is a Singapore based brand of electrostatic air cleaners, with strong emphasis on practical design and suitability in application. We continue to strive for improvement in both quality and design and remain constantly open to clients' needs and industry trend.

RydAiR products are now distributed from Japan to Australia to India, Middle East and Europe.



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