



# ELECTROSTATIC AIR CLEANERS

For Commercial & Industrial Applications



## THE B SERIES

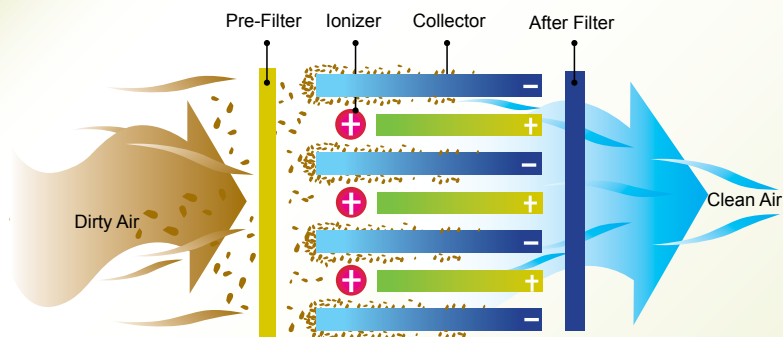
RydAiR "B Series" Electrostatic Air Cleaners help businesses keep pollutants they generate in check. This is one way to help reduce environmental pollution as well as to avoid "Dirty Air" issues with neighbours. This is especially true in densely populated cities where buildings are in close proximity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

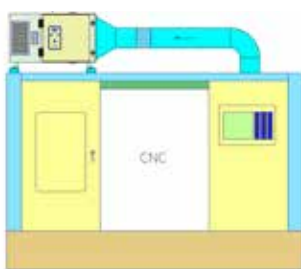
## HOW IT WORKS



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



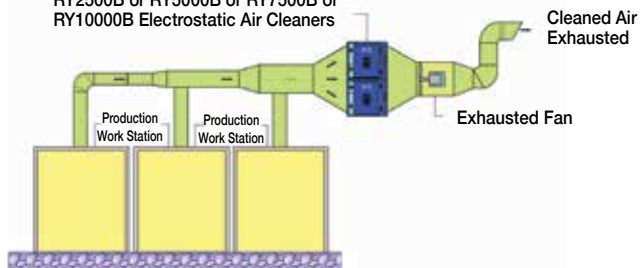
RydAiR RB700 oil mist collector

### KITCHEN EXHAUST APPLICATIONS

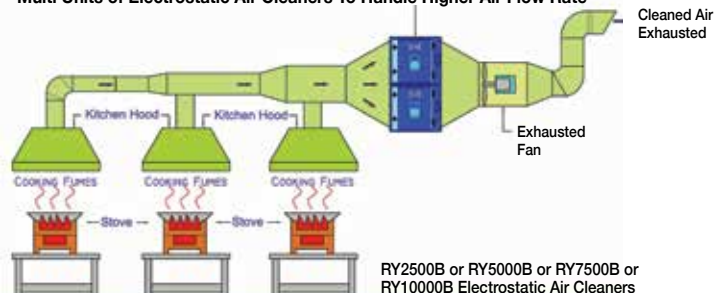
RY2500B or RY5000B or RY7500B or RY10000B Electrostatic Air Cleaners



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.

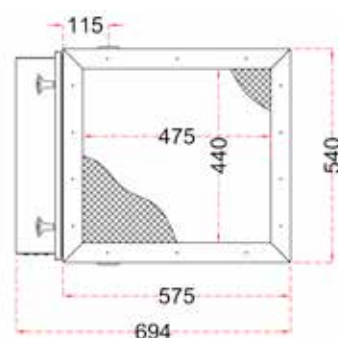


### SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"> <li>*Short circuit, arc protection and auto restore power supply</li> <li>*BMS (Building Management System) terminals provided</li> <li>*Auto power cut-off when door is opened</li> <li>*Indicator LEDs for normal or wash indicator</li> <li>*Set of Terminals for remote LED normal or wash indicator</li> </ul> |
| 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                                                                                                                                                                                                                                                                                         |



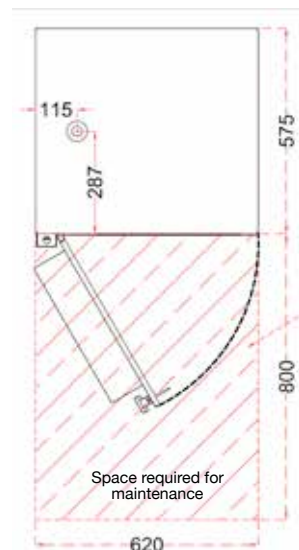
Front View



End View Air Inlet

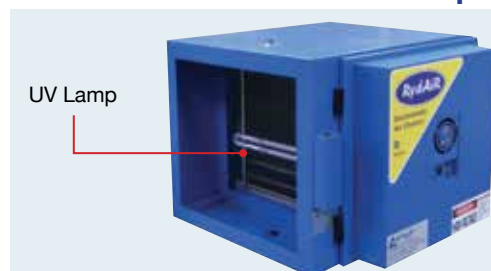


End View



Top View

### RY2500B with UV Ozone Lamp



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

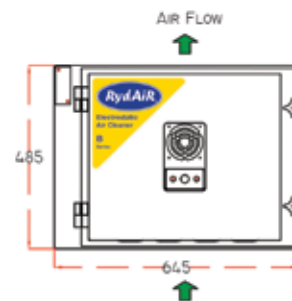


Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, factories, workshops, CNC machine shops and many other premises.

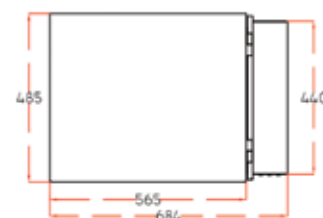


## SPECIFICATIONS

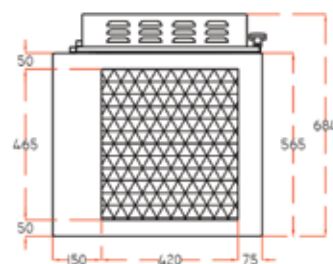
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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"> <li>*Short circuit, arc protection and auto restore power supply</li> <li>*BMS (Building Management System) terminals provided</li> <li>*Auto power cut-off when door is opened</li> <li>*Indicator LEDs for normal or wash indicator</li> <li>*Set of Terminals for remote LED normal or wash indicator</li> </ul> |
| 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.                                                                                                                                                                                                                                                                                         |



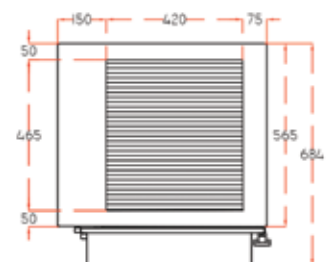
Front View



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.

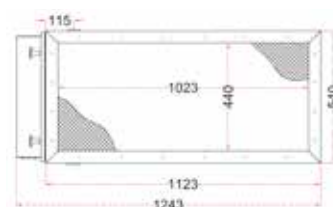


### SPECIFICATIONS

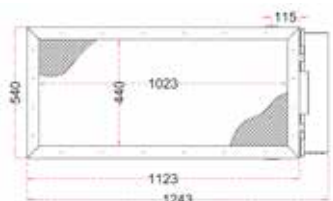
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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"> <li>*Short circuit, arc protection and auto restore power supply</li> <li>*BMS (Building Management System) terminals provided</li> <li>*Auto power cut-off when door is opened</li> <li>*Indicator LEDs for normal or wash indicator</li> <li>*Set of Terminals for remote LED normal or wash indicator</li> </ul> |
| 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                                                                                                                                                                                                                                                                                         |



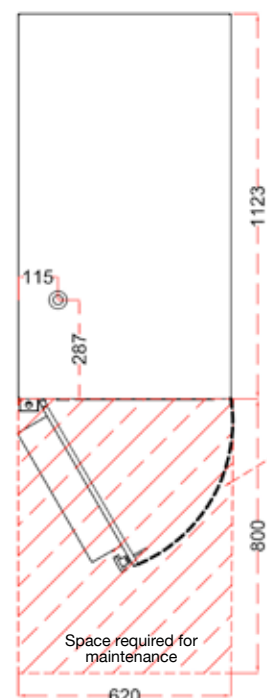
Front View



Air Intake View

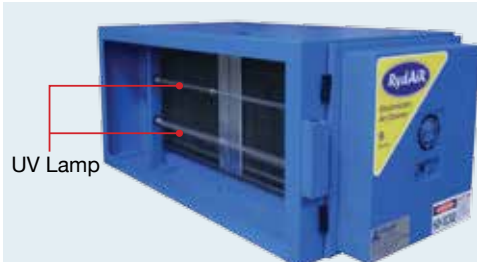


Air Discharge View



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

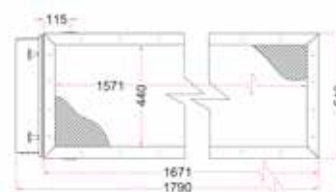


### SPECIFICATIONS

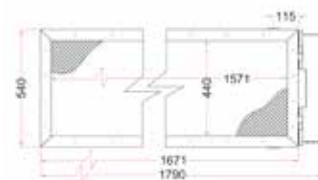
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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"> <li>*Short circuit, arc protection and auto restore power supply</li> <li>*BMS (Building Management System) terminals provided</li> <li>*Auto power cut-off when door is opened</li> <li>*Indicator LEDs for normal or wash indicator</li> <li>*Set of Terminals for remote LED normal or wash indicator</li> </ul> |
| 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                                                                                                                                                                                                                                                                                       |



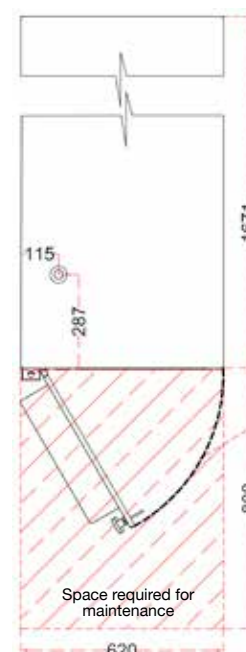
Front View



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



### SPECIFICATIONS

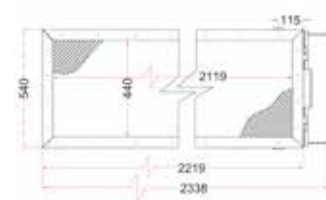
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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"> <li>*Short circuit, arc protection and auto restore power supply</li> <li>*BMS (Building Management System) terminals provided</li> <li>*Auto power cut-off when door is opened</li> <li>*Indicator LEDs for normal or wash indicator</li> <li>*Set of Terminals for remote LED normal or wash indicator</li> </ul> |
| 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.

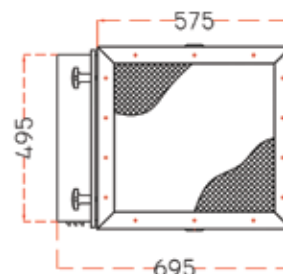


## SPECIFICATIONS

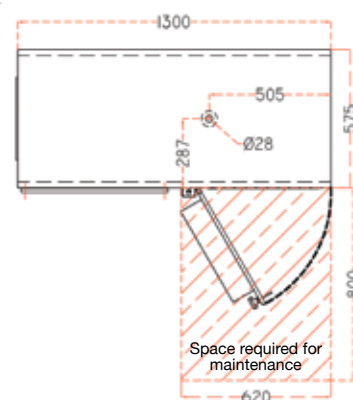
|                         |                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"> <li>*Short circuit, arc protection and auto restore power supply</li> <li>*BMS (Building Management System) terminals provided</li> <li>*Auto power cut-off when door is opened</li> <li>*Indicator LEDs for normal or wash indicator</li> <li>*Set of Terminals for remote LED normal or wash indicator</li> </ul> |
| 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.

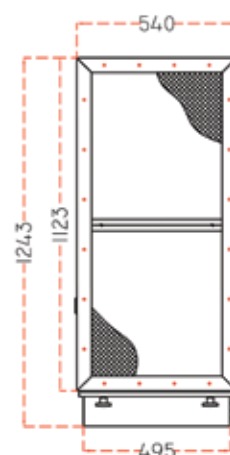


## SPECIFICATIONS

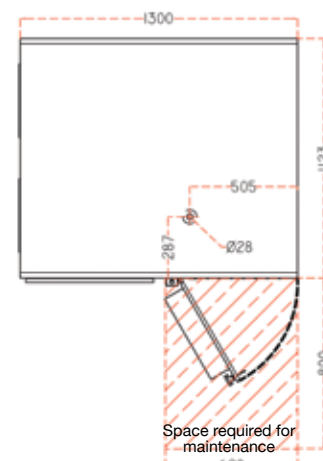
|                         |                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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"> <li>*Short circuit, arc protection and auto restore power supply</li> <li>*BMS (Building Management System) terminals provided</li> <li>*Auto power cut-off when door is opened</li> <li>*Indicator LEDs for normal or wash indicator</li> <li>*Set of Terminals for remote LED normal or wash indicator</li> </ul> |
| 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



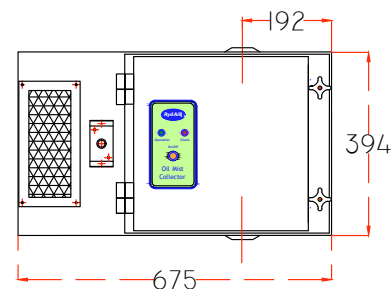
# RB 700

## Electrostatic Air Cleaner (with Blower)

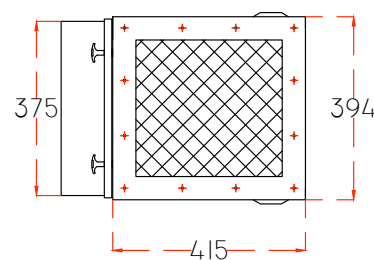
Ducted or Free Flow Operation



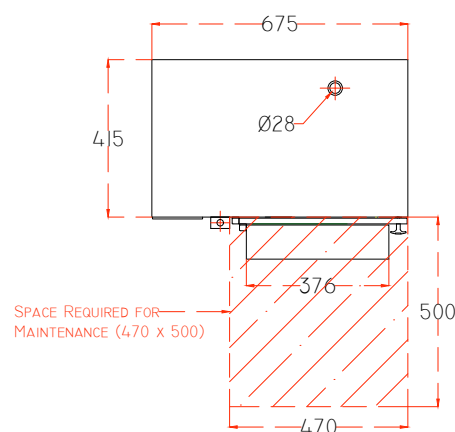
Industrial grade Electrostatic Air Cleaners for collection of dry and wet particulates like dust, oil mist, cooking fumes and various pollutants. Typical application include commercial kitchen exhausts, factories, workshops, CNC machine shops and many other premises. RB700 is also compact enough to be 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<br>*Auto power cut-off when door is opened<br>*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.



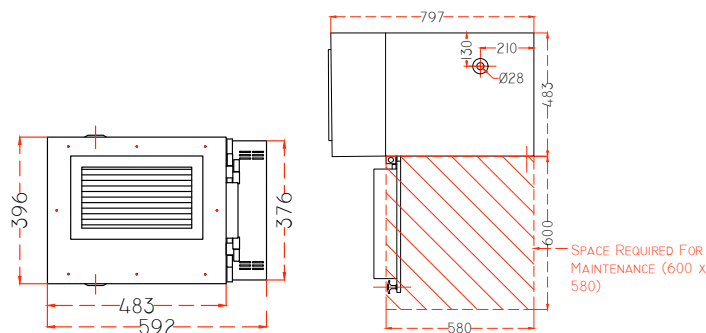
## SPECIFICATIONS - RB1000

|                       |                                |
|-----------------------|--------------------------------|
| 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

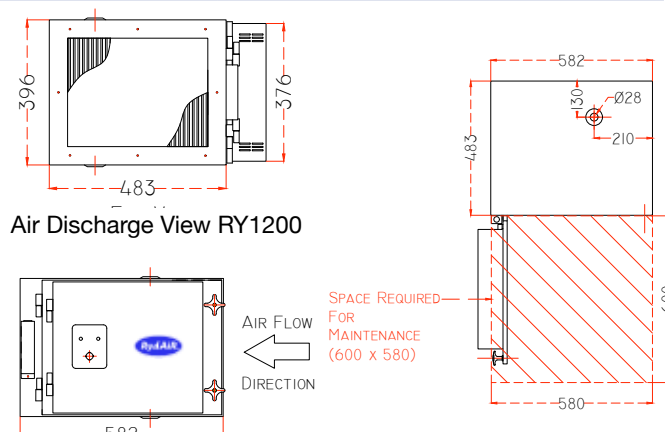
## SPECIFICATIONS - RY1200

|                      |                                                                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>*Auto power cut-off when door is opened<br>*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

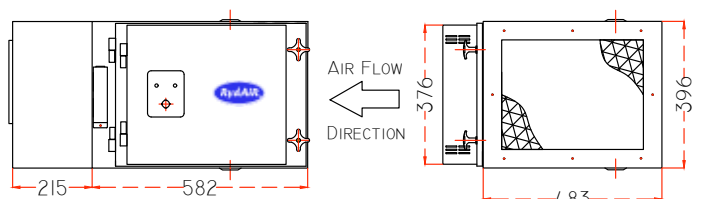
Top View RB1000



Air Discharge View RY1200

Front View RY1200

Top View RY1200



Front View RB1000

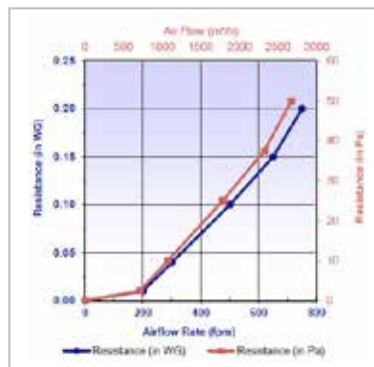
Air Intake View RY1200/RB1000

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

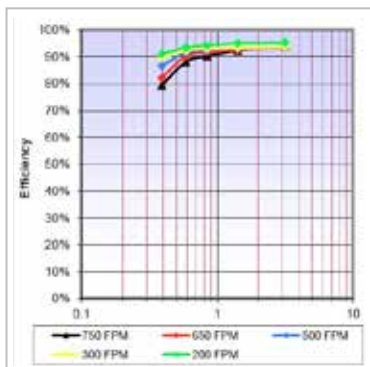
## INDEPENDENT THIRD PARTY TEST REPORTS

By U.S. Based Laboratory

### ASHRAE 52.2-2012 TEST Report



Air Flow vs Resistant Clean Device



Efficiency vs Particle Size

#### Particle Removal Efficiency %

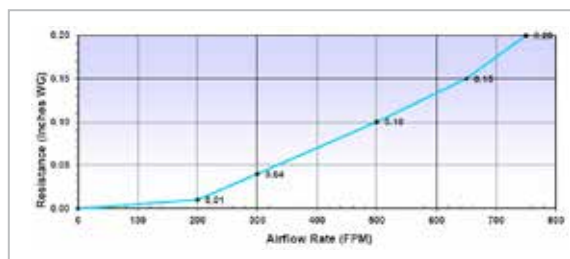
| AVERAGE PARTICLE SIZE | 200 FPM | 300 FPM | 500 FPM | 650 FPM | 750 FPM |
|-----------------------|---------|---------|---------|---------|---------|
| 0.30 - 1.0 µm         | 94      | 92      | 92      | 91      | 91      |
| 1.0 - 3.0 µm          | 95      | 93      | 93      | 94      | 93      |
| 3.0 - 10.0 µm         | 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.**

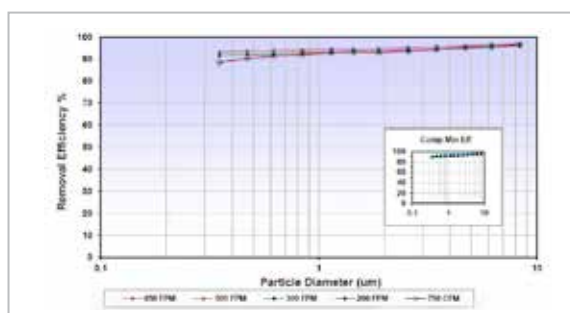
| Standard 52.2 Minimum Efficiency Reporting Value (MERV) | Composite Average Particle Size Efficiency, % in Size Range, µm |                   |                    |                       |
|---------------------------------------------------------|-----------------------------------------------------------------|-------------------|--------------------|-----------------------|
|                                                         | 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 - 0.50 µm        | 91.1    | 89.5    | 86.6    | 82.2    | 79.5    |
| 0.50 - 0.70 µm        | 93.4    | 92.4    | 91.7    | 90.3    | 88.1    |
| 0.70 - 1.0 µm         | 94.3    | 93      | 92.6    | 91.8    | 90.3    |
| 1.00 - 2.00 µm        | 95.1    | 93.4    | 93.2    | 92.6    | 92.4    |
| 2.00 - 5.00 µm        | 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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