



ELECTROSTATIC PRECIPITATOR

Cavalier's Electrostatic Precipitator units are specifically designed for the control and removal of grease particles. Eliminating the grease from the exhaust air stops the build up of inflammable material within the duct system reducing the risk of a fire hazard.

Electrostatic Precipitators operate by ionizing the particles within the exhaust air and then capturing them through the use of charged metal plates. The captured grease is then drained and collected at the base of the unit. This process purifies the once contaminated air from commercial kitchen, leaving air pollution to a minimum at the discharge location.

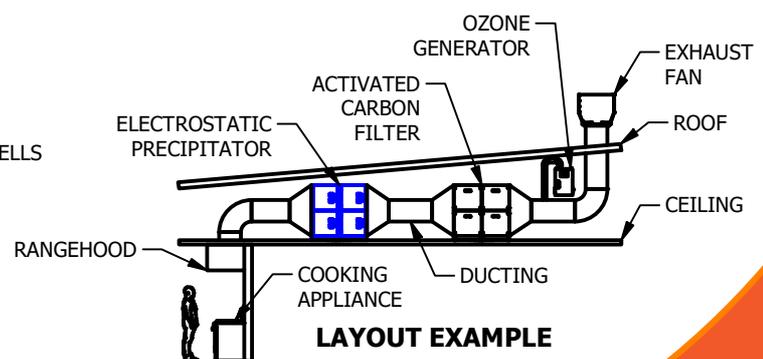
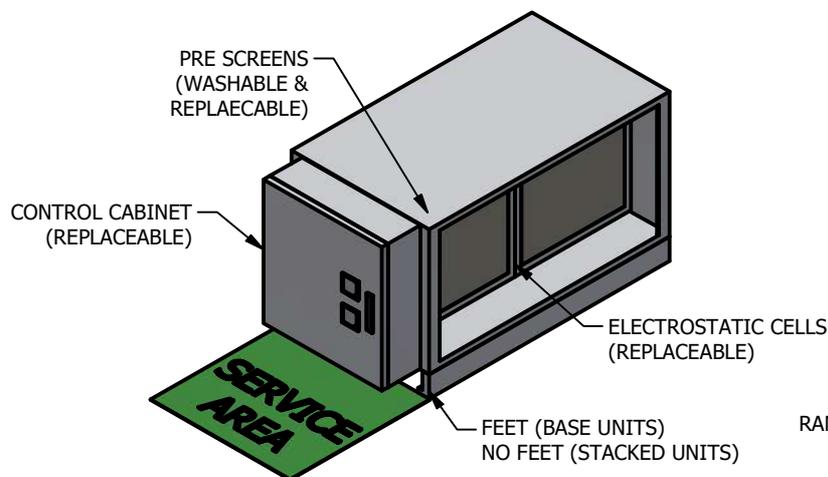
Electrostatic Precipitator units are manufactured from quality materials with ease of installation & maintenance being a key factor.



SINGLE PASS UNIT



DOUBLE PASS UNIT



29 Liverpool St
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www.cavaliervent.com.au

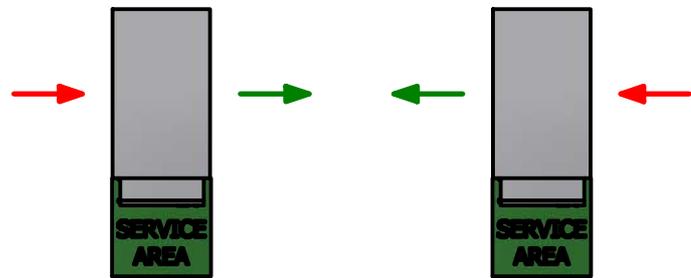
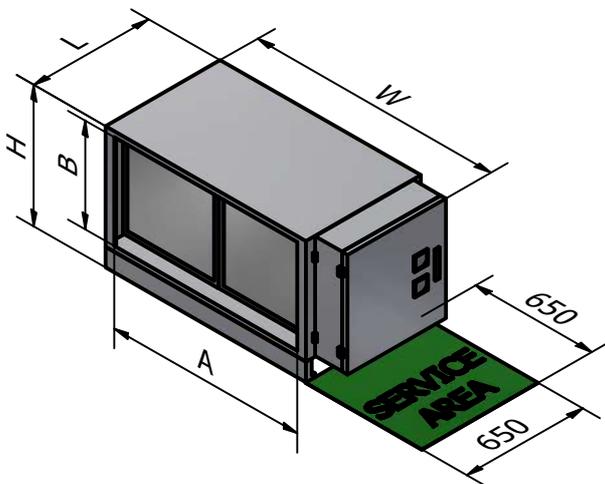


ELECTROSTATIC PRECIPITATOR

SINGLE PASS UNITS

Model	CV-ESP-1S	CV-ESP-2S	CV-ESP-3S	CV-ESP-4S
Air Flow (L/s)	300-1000	600-2000	900-3000	1200-4000
Cabinet Material	Carbon Steel (1.2mm) Powder-Coated (White)			
Cabinet Size L*W*H (mm)	640*765*690	640*1300*690	640*1835*690	640*2370*690
Flange Size A*B (mm)	485*530	1020*530	1560*530	2090*530
Removal Efficiency Rate	Up to 94% (Tested by ASHRAE 52.2-2017)			
Pressure Drop (Pa)	40 (Clean) - 90 (Dirty)			
Pre-Filter (Aluminum Mesh)	1	2	3	4
Power Pack Qty	1	1	1	1
Power Consumption (Watt)	110	220	330	440
Power Pack	High-frequency High-Voltage Solid-state Transformer			
Power Supply	220V / 1 PH / 50~60 HZ / 1.5A			
Air Flow Direction	Left-Right / Right-Left (Reversible)			
Cell Qty (PCS)	1	2	3	4
Each Cell Size L*W*H (mm)	535*320*515			
Cell Net Weight (kg/cell)	18.5			
Ionizer Blade Voltage (kV)	Stainless Steel / 12-14			
Collection Plate Voltage (kV)	Anti-Corrosion Aluminum / 6-7			
Particle Size	Collects Particles As Small As 0.01 Microns			
Effective Collect Area (m²/unit)	4.655	9.31	13.96	18.62
Indicators	LED Lights For Power & Faults			
Insulator Material	Ceramic			
Net Weight (kg)	59	95	127	170
Service Area (mm)	650*650 (minimum)			

(Design factors for your layout may alter the values shown)



AIRFLOW (L-R)

AIRFLOW (R-L)



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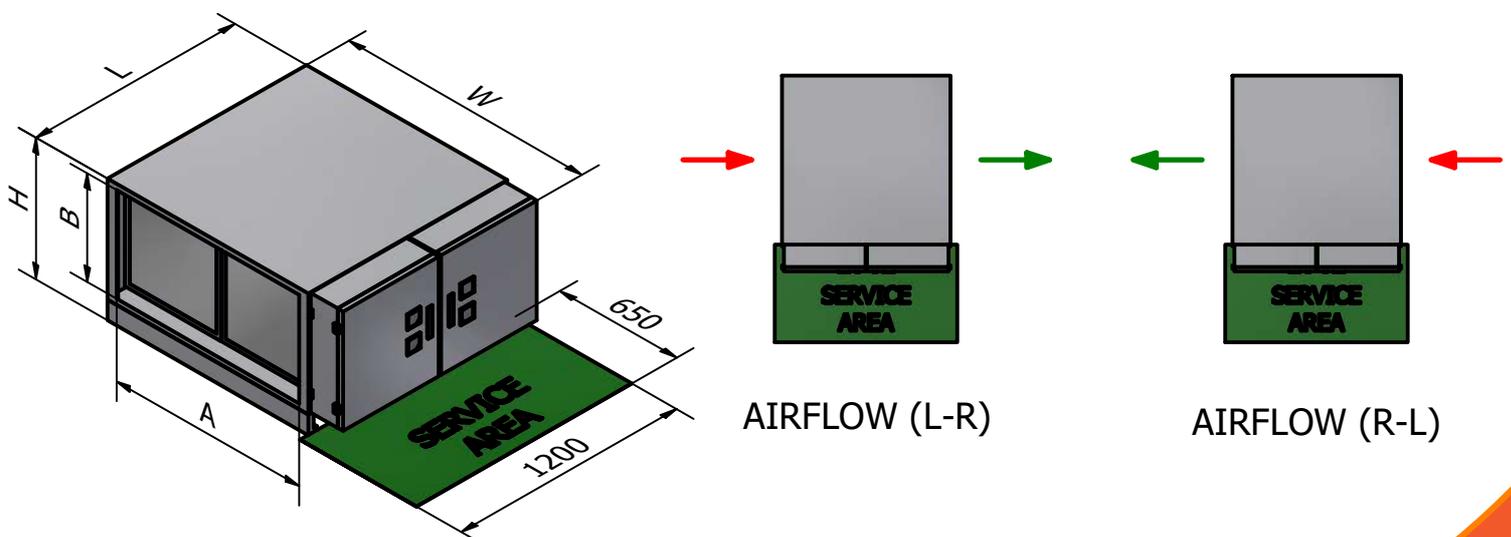


ELECTROSTATIC PRECIPITATOR

DOUBLE PASS UNITS

Model	CV-ESP-1D	CV-ESP-2D	CV-ESP-3D	CV-ESP-3D
Air Flow (L/s)	300-1000	600-2000	900-3000	1200-4000
Cabinet Material	Carbon Steel (1.2mm) Powder-Coated (White)			
Cabinet Size L*W*H (mm)	1110*765*690	1110*1300*690	1110*1835*690	1110*2370*690
Flange Size A*B (mm)	485*530	1020*530	1560*530	2090*530
Removal Efficiency Rate	Up to 99% (Tested by ASHRAE 52.2-2017)			
Pressure Drop (Pa)	80 (Clean) - 180 (Dirty)			
Pre-Filter (Aluminum Mesh)	1	2	3	4
Power Pack Qty	2	2	2	2
Power Consumption (Watt)	220	440	660	880
Power Pack	High-frequency High-Voltage Solid-state Transformer			
Power Supply	220V / 1 PH / 50~60 HZ / 3A			
Air Flow Direction	Left-Right / Right-Left (Reversible)			
Cell Qty (PCS)	2	4	6	8
Each Cell Size L*W*H (mm)	538*320*515			
Cell Net Weight (kg/cell)	18.5			
Ionizer Blade Voltage (kV)	Stainless Steel / 12-14			
Collection Plate Voltage (kV)	Anti-Corrosion Aluminum / 6-7			
Particle Size	Collects Particles As Small As 0.01 Microns			
Effective Collect Area (m²/unit)	9.31	18.62	27.93	37.24
Indicators	LED Lights For Power & Faults			
Insulator Material	Ceramic			
Net Weight (kg)	115	170	225	280
Service Area (mm)	650*1100 (minimum)			

(Design factors for your layout may alter the values shown)

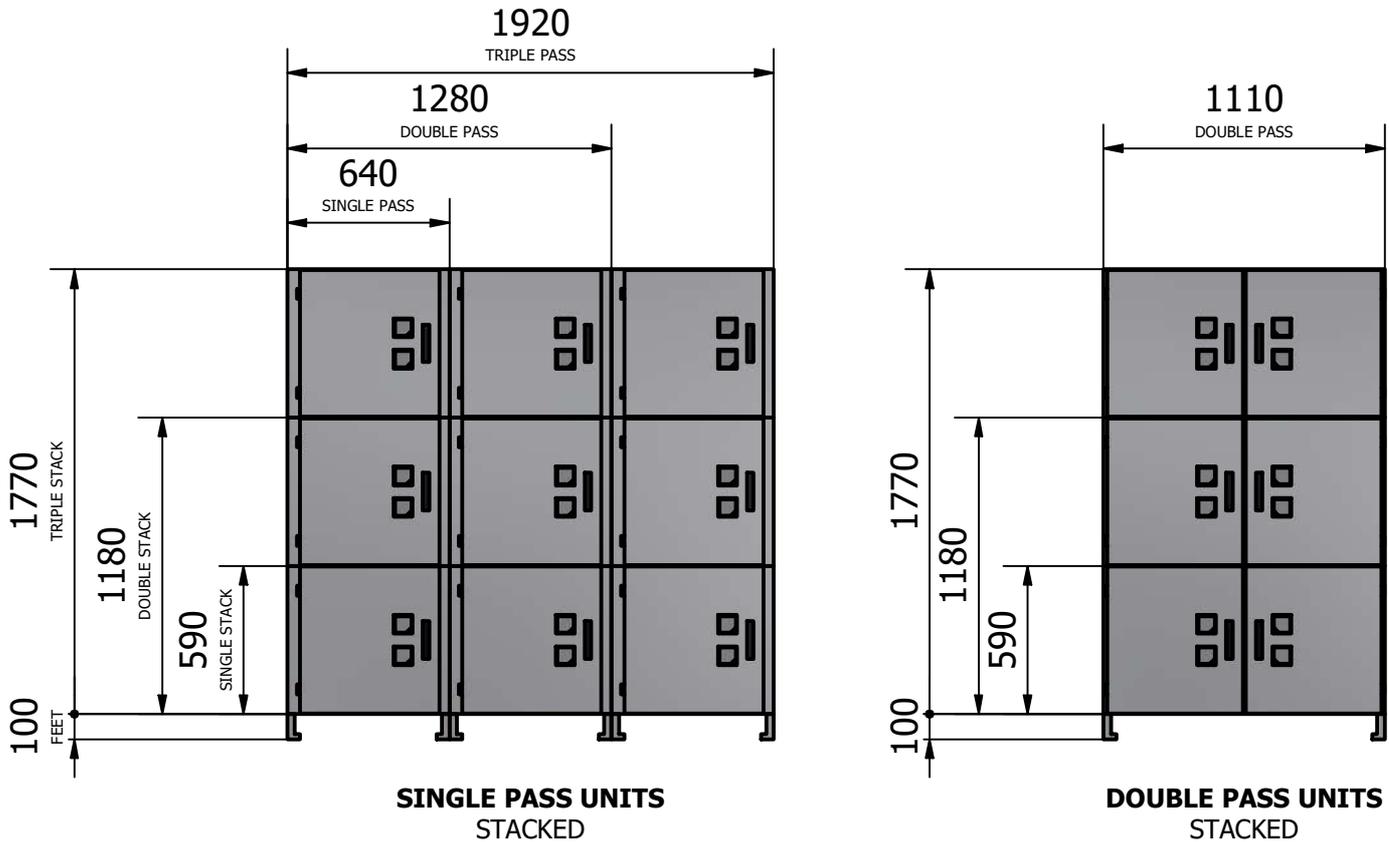


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Cavalier's Electrostatic Precipitator units are modular in design and can be attached to our Carbon Filters.

REPLACEMENT PARTS AVAILABLE



CONTROL BOX
CAVAIR-ESP-CTB



CELL
CAVAIR-ESP-CEL



PRE FILTER
CAVAIR-ESP-FLT



GREASE TRAY
CAVAIR-ESP-GTY



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