

DE

ELECTROSTATIC PRECIPITATORS



despel

despel

POLLUTION CONTROL UNITS



Air pollution in an industrial city

Cleaner, Greener and More Sustainable



Electrostatic air cleaners for industrial air purification ; Our filtration units for commercial cooking applications are designed to treat oil, grease, smoke and odor emissions from exhaust ducts in compliance with national and local codes. Kitchen exhaust system will give you the best kitchen environment possible.

Our range of electrostatic air cleaners are designed to combat indoor pollutants with efficient energy consumption.

Ready to say “good riddance” to air pollutants in your plant? Invest in your workers’ health and safety with the Despel DE Series.

- Constant and consistent airflow
- High collection efficiency on sub-micron particles
- Reusable filter components
- Cheaper life-cycle cost
- Hinged side access door
- Power supply mounted out of airstream

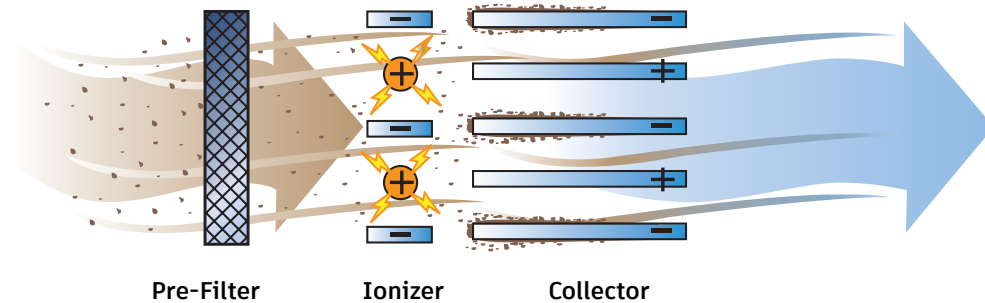


Despel Electrostatic Air Cleaners - Capability

For any air cleaning machine it is as important to know what it can't do as well as what it can do, because to have units in use on marginal applications is a problem in the making. With such a long history in the field Despel have a very detailed and clear knowledge of their electrostatic air cleaners and the hundreds of different air-borne challenges that they can be used for. Type of contaminants, airflow, temperature, humidity and both the physical and environmental constraints of an application all have a bearing on the type of equipment and model of electrostatic air cleaner that we recommend.

Despel's depth of technical backup added to our own technical capabilities and knowledge ensures that we get it right first time, where other potential solution providers may either propose an ineffective or inappropriate system or one engineered to short life and limited performance.

DESCRIPTION

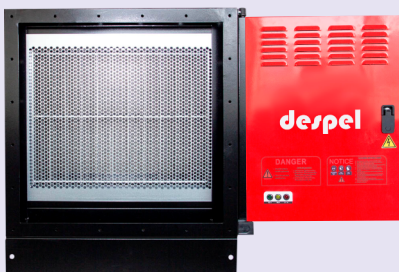


The above diagram shows, in a basic visual, how an electrostatic precipitator works. As air passes into the combined ioniser / collector cell, the particulates in the air stream are polarised. As they continue through the ioniser and between the collector cell plates, the polarised particulates are repelled away from the positively charged plates and attracted to the earthed plates where they stick and so are filtered out of the air flow.

This not only simplifies servicing but eradicates potentially dangerous spillage from the bottom of the units and greatly cuts down on build-ups of grease within the ducting. The ionisation voltage has been designed to run at a negative potential which enhances the ionisation of particles and also produces more ozone which is helpful in reducing cooking odours. Inside each Depel DE Series unit is the electrostatic collector cell, which has ioniser and collector plates built into an easy pull out unit which is robust and designed for prolonged service life.

DESPEL DE series have been specifically designed for kitchen extract systems; they have integral sumps to collect the oil, grease and smoke particles filtered out of the exhaust.

- Specifically designed for commercial kitchen application
- Single Pass Option – Up to 96% Efficient Grease and Smoke Removal
- Double Pass Option – Up to 99% Efficient Grease and Smoke Removal
- Filters particles down to submicron levels
- Produces Ozone to help reduce malodours
- Designed with an integral sump
- Modular in design
- Energy efficient



Access doors and replaceable components enable them to be serviced easily and quickly, reducing workshop downtime.

In addition, systems can be configured to remove odour to offer greater comfort within the workshop or industrial environment by lowering the contaminated air that is exhausted into the atmosphere.



HEAVY
96%
EFFICIENCY

Model	Airflow m ³ /h
DE H030	3300
DE H060	6600
DE H080	8300
DE H100	10000

STANDART
93%
EFFICIENCY

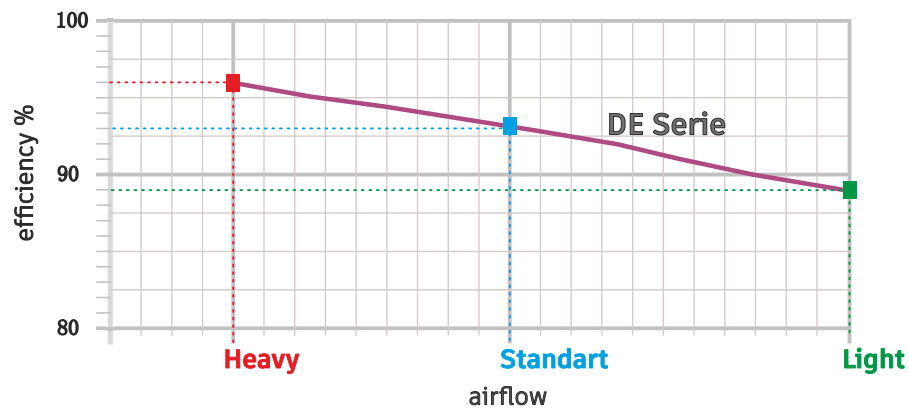
Model	Airflow m ³ /h
DE S030	4000
DE S060	8000
DE S080	10000
DE S100	12000

LIGHT
89%
EFFICIENCY

Model	Airflow m ³ /h
DE L030	5000
DE L060	10000
DE L080	12500
DE L100	15000



Efficiency Curve



moderate	high	very high
✓		
✓		
✓		
✓		
✓		
	✓	
	✓	
		✓
		✓
		✓
		✓
		✓
		✓

Pizza Restaurant

Pita / Lahmacun

French

Italian

Most Pubs

Chinese

Japanese

Kebab Houses

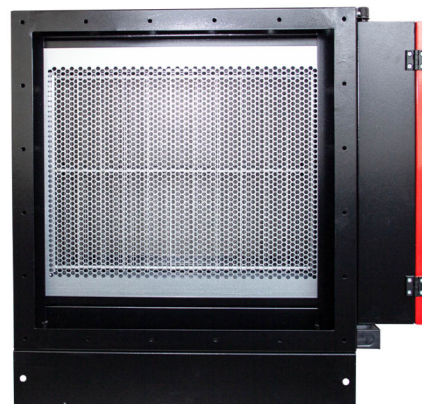
Steakhouses

Fried Chicken

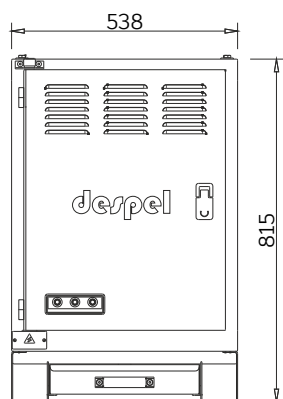
Fish

Fast Food Burger

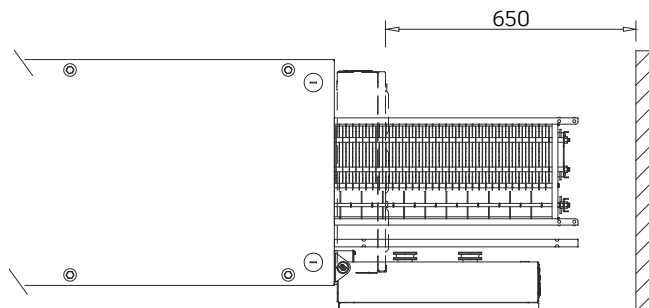
**Grease
characteristics
arising from a range of
commercial kitchens**



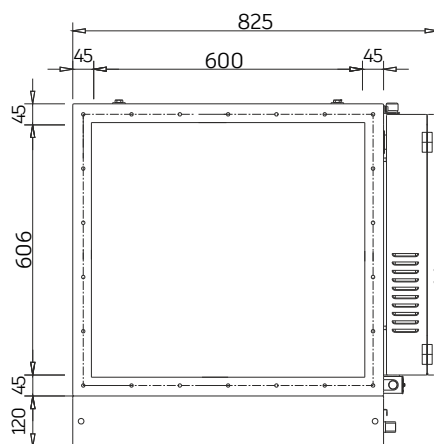
FRONT VIEW



TOP VIEW

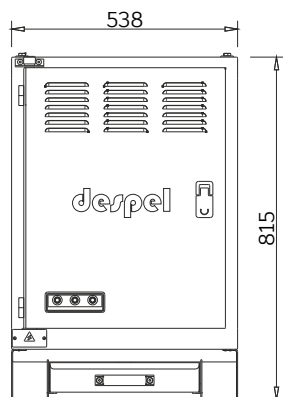


LEFT VIEW

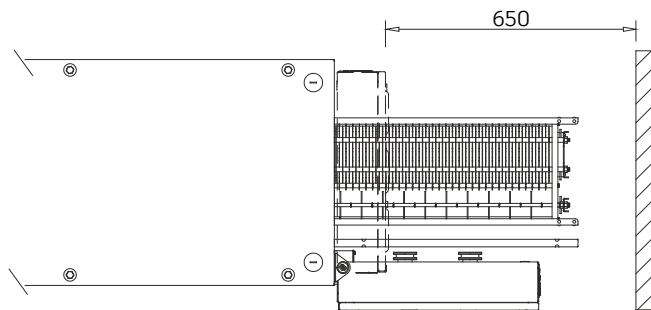


Air Volume	3300 m ³ /h
Efficiency	up to %96 (From 0.01 microns - 10 microns)
Static Pressure	18 Pa
Power & Voltage	77 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/1
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×825×815 mm (LxWxH)
Unit Weight	73 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

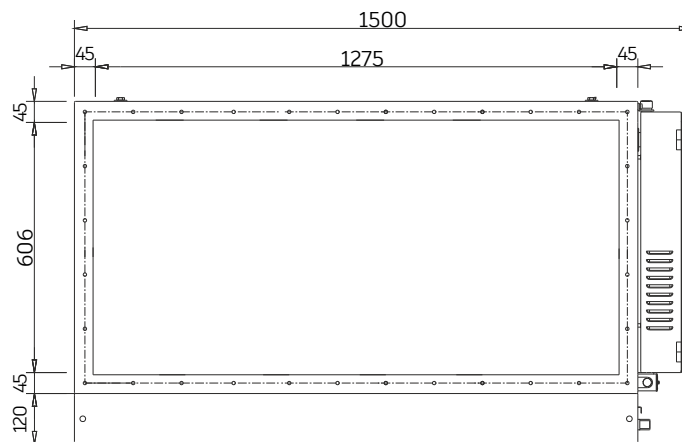
FRONT VIEW



TOP VIEW



LEFT VIEW

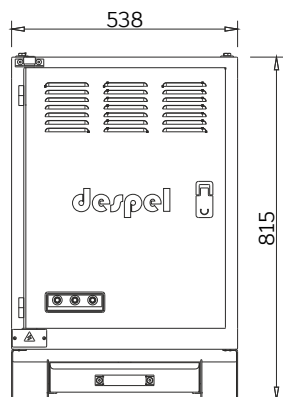


Air Volume	6600 m ³ /h
Efficiency	up to %96 (From 0.01 microns - 10 microns)
Static Pressure	18 Pa
Power & Voltage	154 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/2
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×1500×815 mm (LxWxH)
Unit Weight	119 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased

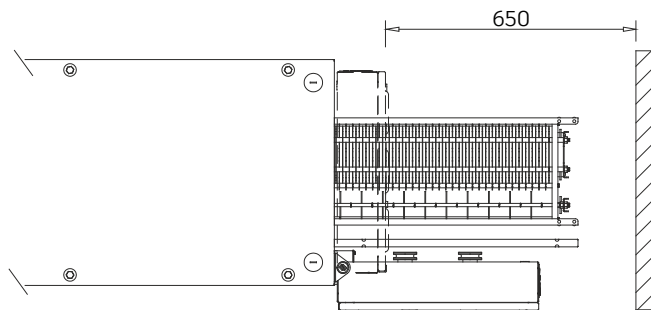
Standart Specifications for Each Unit

Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

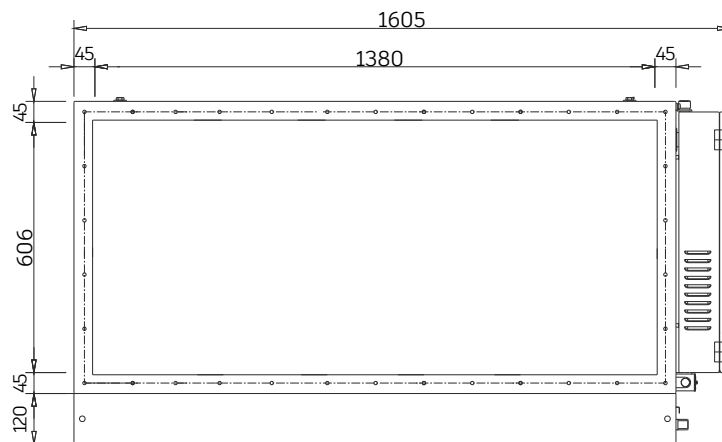
FRONT VIEW



TOP VIEW



LEFT VIEW

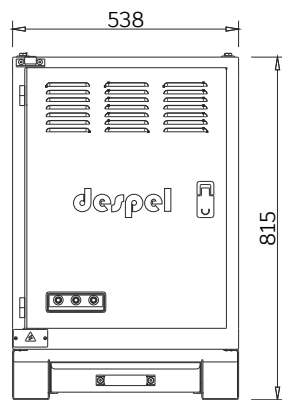


Air Volume	8300 m ³ /h
Efficiency	up to %96 (From 0.01 microns - 10 microns)
Static Pressure	18 Pa
Power & Voltage	182 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/2
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×1605×815 mm (LxWxH)
Unit Weight	129 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased

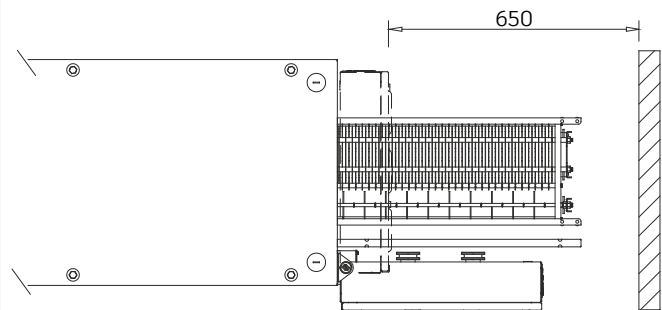
Standart Specifications for Each Unit

Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

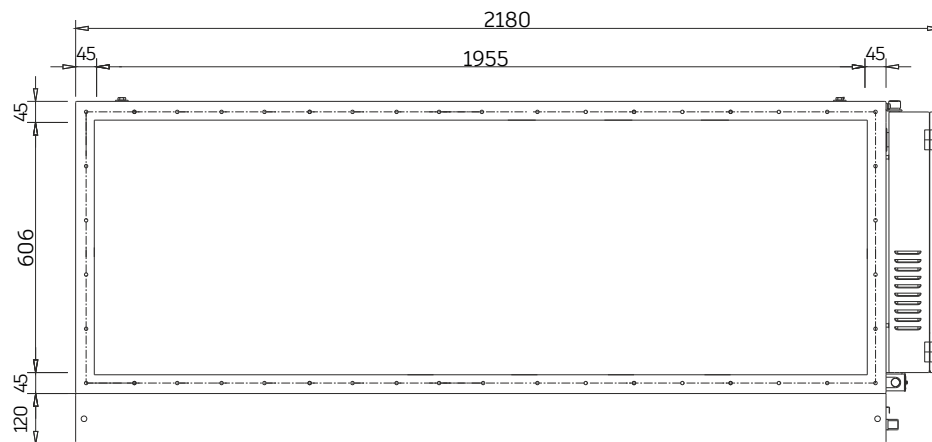
FRONT VIEW



TOP VIEW

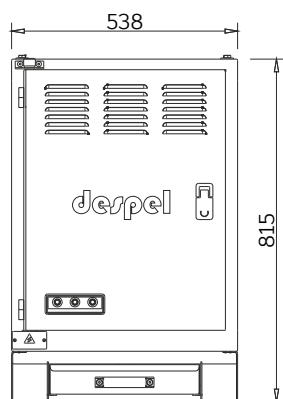


LEFT VIEW

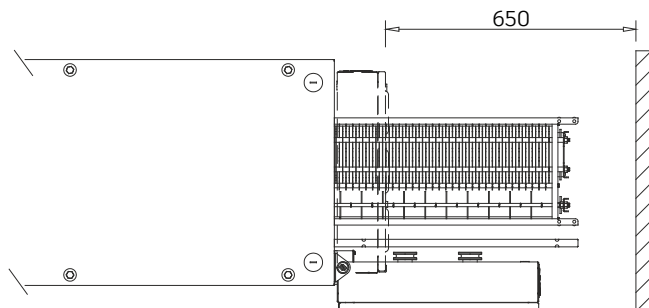


Air Volume	10000 m ³ /h
Efficiency	up to %96 (From 0.01 microns - 10 microns)
Static Pressure	18 Pa
Power & Voltage	231 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/3
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×2180×815 mm (LxWxH)
Unit Weight	165 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

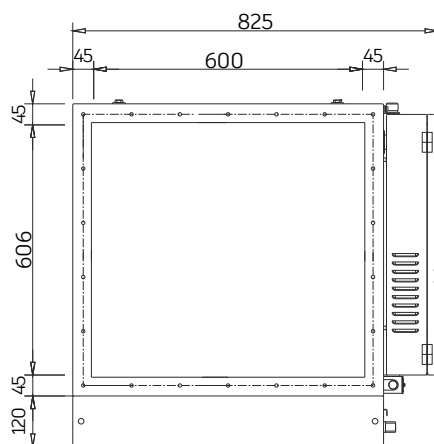
FRONT VIEW



TOP VIEW

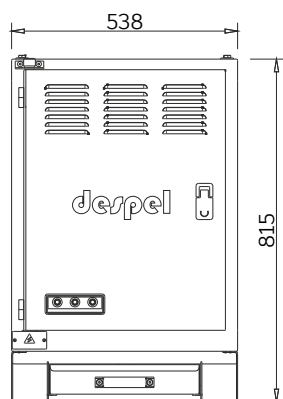


LEFT VIEW

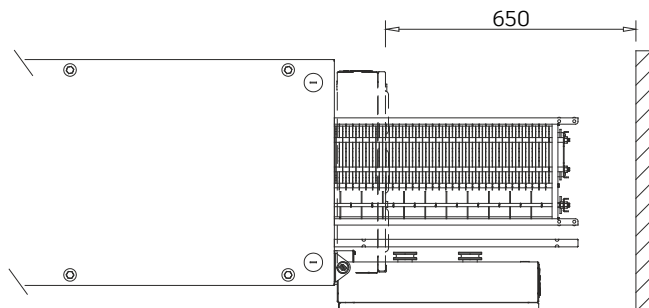


Air Volume	4000 m ³ /h
Efficiency	up to %93 (From 0.01 microns - 10 microns)
Static Pressure	23 Pa
Power & Voltage	77 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/1
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×825×815 mm (LxWxH)
Unit Weight	73 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

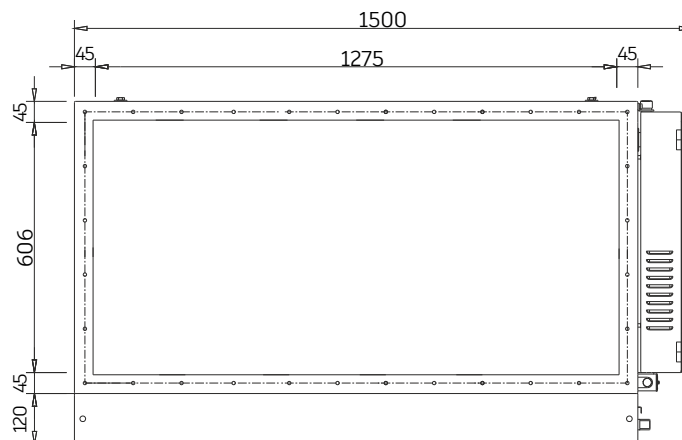
FRONT VIEW



TOP VIEW



LEFT VIEW

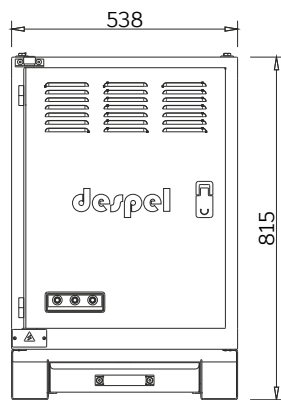


Air Volume	8000 m ³ /h
Efficiency	up to %93 (From 0.01 microns - 10 microns)
Static Pressure	23 Pa
Power & Voltage	154 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/2
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×1500×815 mm (LxWxH)
Unit Weight	119 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased

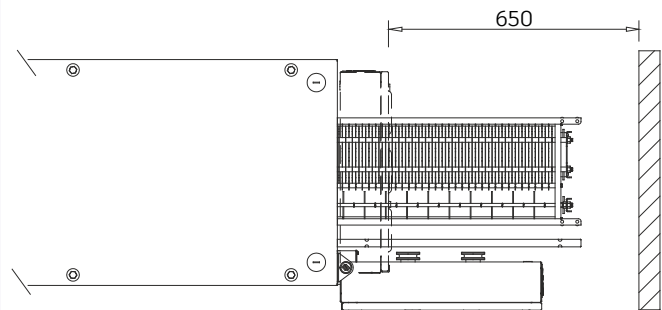
Standart Specifications for Each Unit

Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

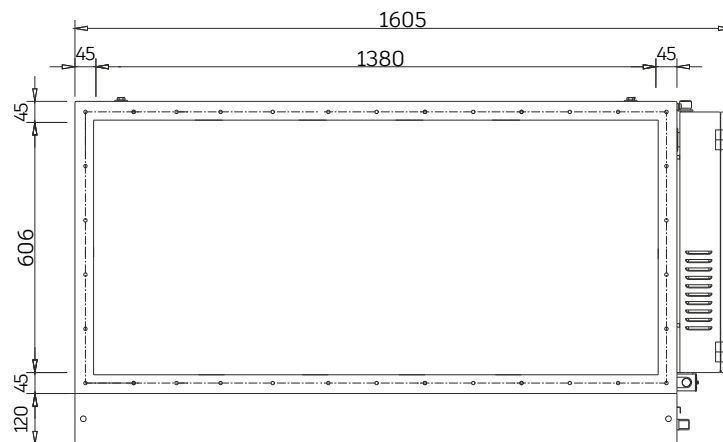
FRONT VIEW



TOP VIEW

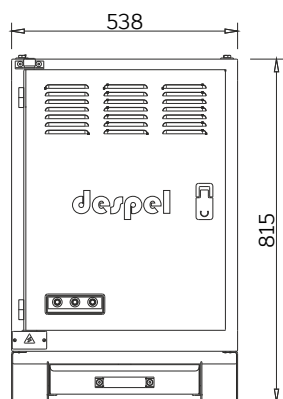


LEFT VIEW

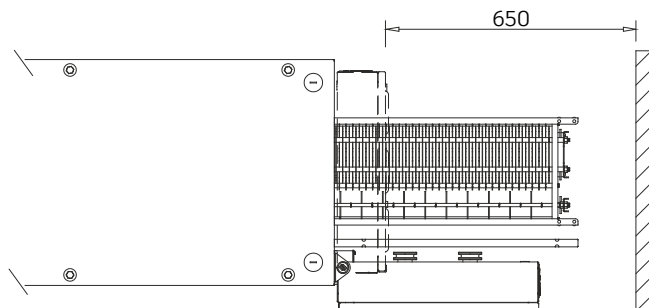


Air Volume	10000 m ³ /h
Efficiency	up to %93 (From 0.01 microns - 10 microns)
Static Pressure	23 Pa
Power & Voltage	182 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/2
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×1605×815 mm (LxWxH)
Unit Weight	129 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

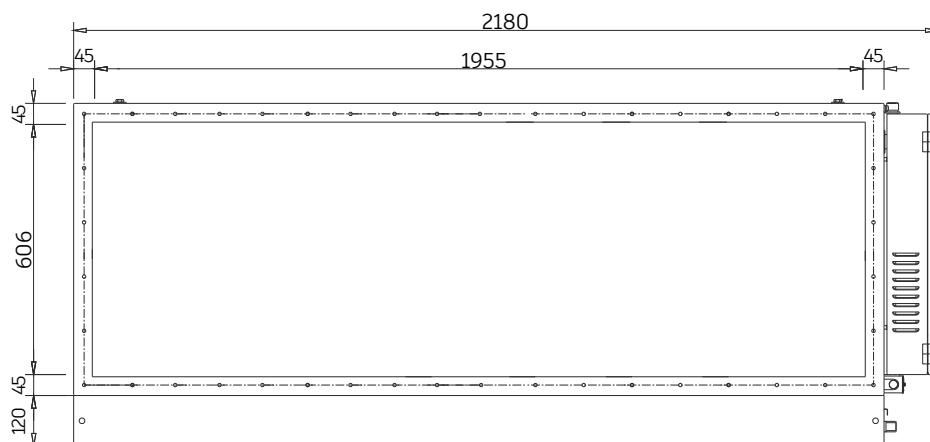
FRONT VIEW



TOP VIEW

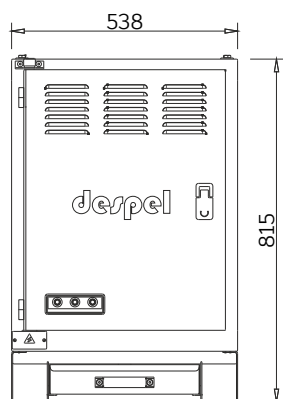


LEFT VIEW

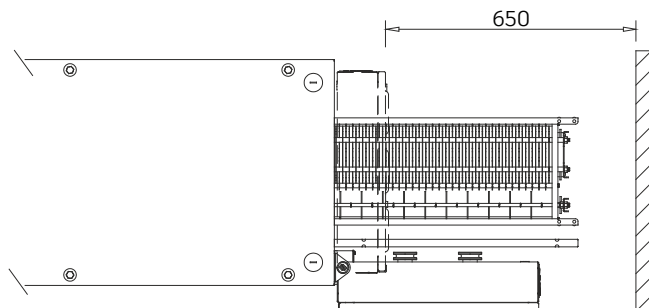


Air Volume	12000 m ³ /h
Efficiency	up to %93 (From 0.01 microns - 10 microns)
Static Pressure	23 Pa
Power & Voltage	231 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/3
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×2180×815 mm (LxWxH)
Unit Weight	165 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

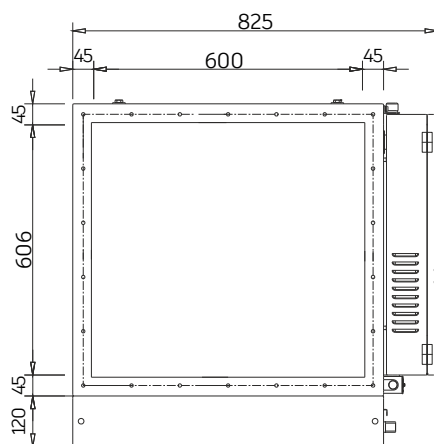
FRONT VIEW



TOP VIEW

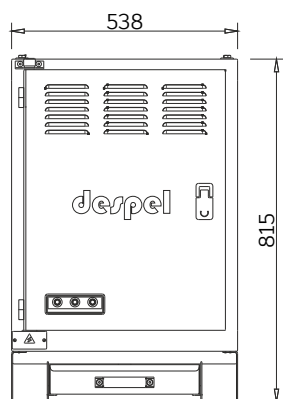


LEFT VIEW

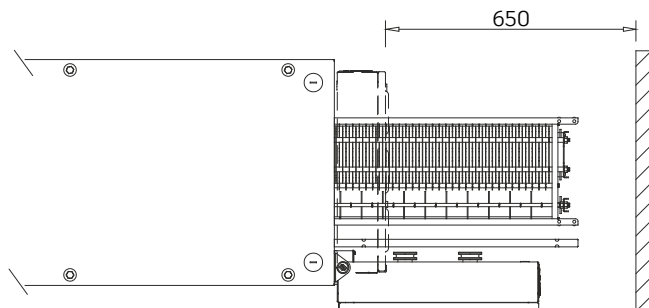


Air Volume	5000 m³/h
Efficiency	up to %89 (From 0.01 microns - 10 microns)
Static Pressure	54 Pa
Power & Voltage	77 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/1
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×825×815 mm (LxWxH)
Unit Weight	73 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

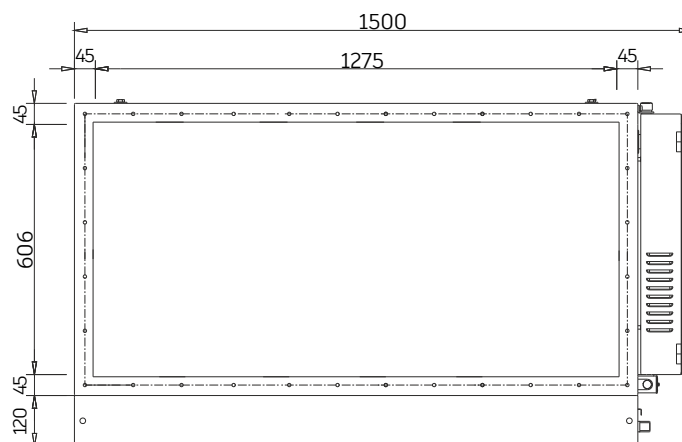
FRONT VIEW



TOP VIEW

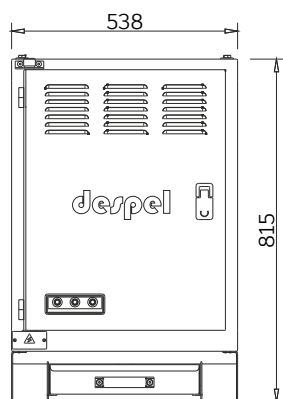


LEFT VIEW

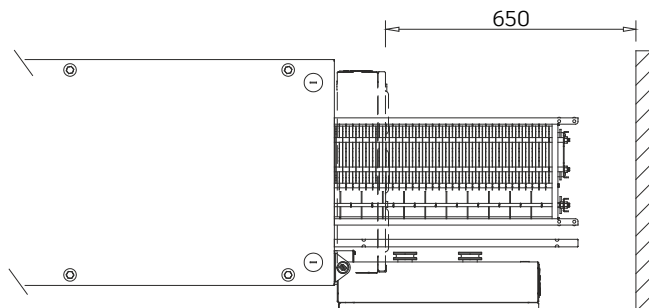


Air Volume	10000 m ³ /h
Efficiency	up to %89 (From 0.01 microns - 10 microns)
Static Pressure	54 Pa
Power & Voltage	154 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/2
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×1500×815 mm (LxWxH)
Unit Weight	119 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

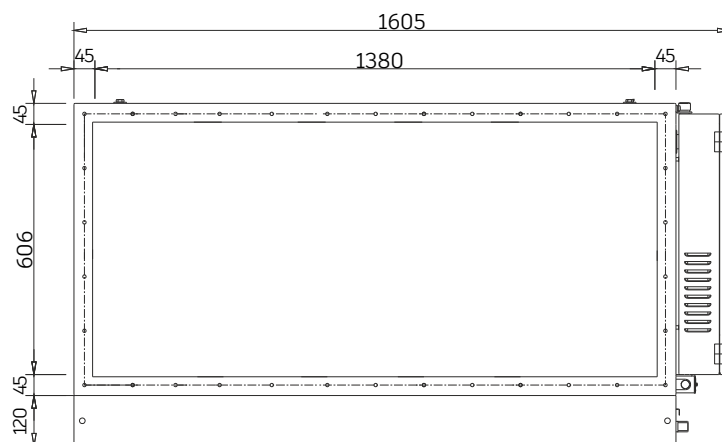
FRONT VIEW



TOP VIEW

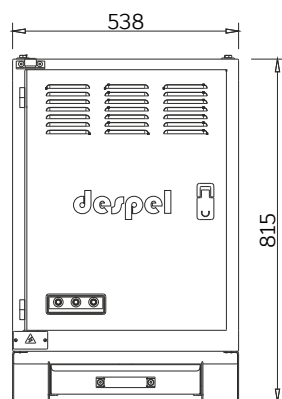


LEFT VIEW

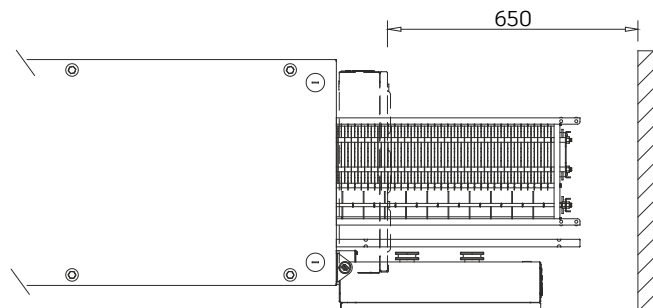


Air Volume	12500 m ³ /h
Efficiency	up to %89 (From 0.01 microns - 10 microns)
Static Pressure	54 Pa
Power & Voltage	182 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/2
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×1605×815 mm (LxWxH)
Unit Weight	129 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

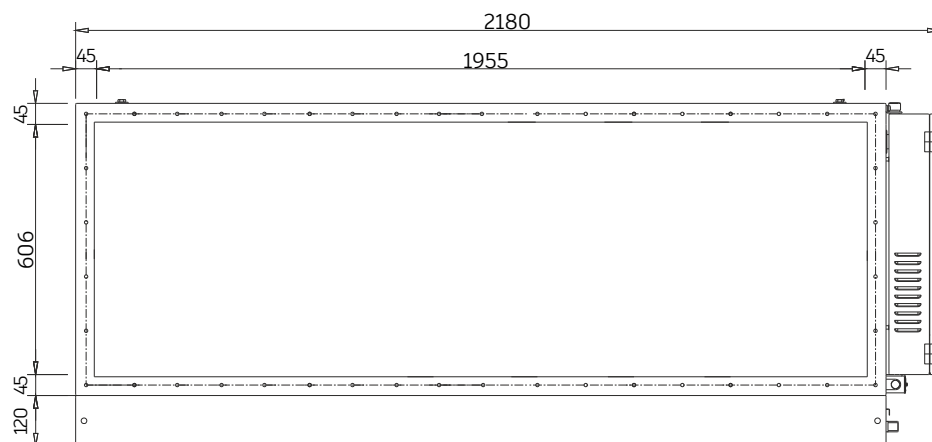
FRONT VIEW



TOP VIEW



LEFT VIEW



Air Volume	15000 m³/h
Efficiency	up to %89 (From 0.01 microns - 10 microns)
Static Pressure	54 Pa
Power & Voltage	231 Watts 230 VAC +/-10% , 50/60Hz
Power Pack/ Cell Qty.	1/3
Ionising Voltages	High Voltage: 14KVdc, Low Voltage: 7KVdc
Installation	Ceiling Suspended; Wall or Frame Mounted
Dimensions	538×2180×815 mm (LxWxH)
Unit Weight	165 kg
Power Supply	High Frequency solid state and self regulating design
Pre-Filter	Aluminum Mesh
Primary Filter	Standard Forever Filter - Electronic Ionizer / Collector Cell
After Filter	Optional Disposable Charcoal After Filter
Controls	On/Off Switch with Indicating Light
General	Multiple Units Can be Joined Together for Increased
Standart Specifications for Each Unit	
Cabinet	1,4mm (16 Gauged) Welded Galvanized Steel
Finish	Red or Blue Epoxy Powder Coat
Air Flow	Horizontal - Standart Right to Left (Optionally Left to Right)
Accessories	Optional Brass Drain Fitting, Optional Source Capture Plenum

List of Kitchens Generally Needed



*Commercial
cafeterias*



*Hotel
kitchens*



*Food factory
kitchens*



Restaurants



*Dining areas in
shopping centers*



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