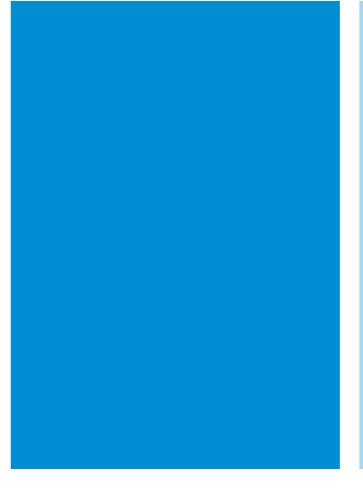
DE Electrostatic Precipitators

Industrial & Commercial Kitchens













GENERAL DESCRIPTION

Electronic 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.

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

How clean is the air in your industrial plant?

If you need to remove harmful air pollutants like smoke, fumes, oil/coolant smoke, and mist, our electronic air cleaners will have you breathing easier in no time. The DE-Series cleans contaminated indoor air and recirculates it back to the work area, reducing energy costs by not having to exhaust conditioned air to the outside.

These units work well for air with a high concentration of particles, like that of a kitchen hood exhaust system. Kitchen air quality can easily be reduced from the smoke, grease, and odors of cooking. But electrostatic precipitators keep airflow constant, meaning they are continually cleaning and refreshing the air. An electrostatic precipitator in your 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.



Cleaner,
Greener
and
More
Sustainable



STUDY PURPOSE

• Filtering oil particulates

AS A RESULT

Customer happinessClean environmentClean kitchens

• Profitable business

List of Kitchens

Generally Needed

Commercial cafeterias

Food factory kitchens

Restaurants

Dining areas in shopping centers

kitchens

• Smoke and soot filtration

LONG MACHINE LIFE

Suitable for industrial construction and heavy duty

- 10 years parts warranty
- Max. Onsite service within 48 hours
- Continuous warranty with maintenance contract
- Filtering efficiency up to 99%*
- Unit diversity according to cooking types
- Special construction for heavy oiled and intensive kitchens
- Easy to maintain plate electrostatic filters
- Wide range with 4 kinds of standard flow rate



Our ESP units fit in-line with the kitchen ducting and can be configured modularly to cope with all extract volume requirements.

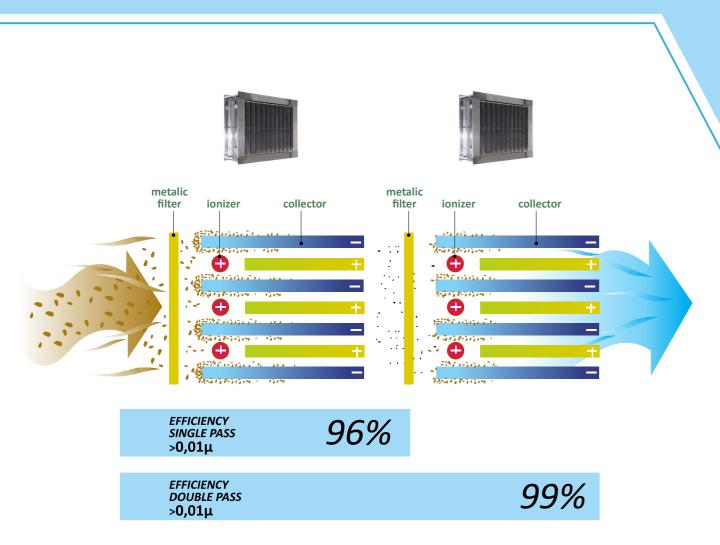
* on Double Pass





Electrostatic Filters

Electrostatic filters (ESP) pass the oil particles contained in the exhaust air through the high-voltage ionizer into negative charged ions, through which they pass through the collector cell consisting of positive and negative row plates and these oil particles are retained by positively charged plates. Thus, exhaust hood exhaust air is discharged to the environment at a rate of approximately 99% (in double pass) to the nature free of cooking oil, smoke and soot.

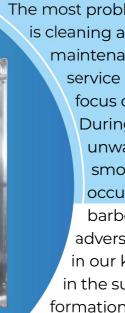


- Leading Electrostic Technology for highly effective grease and smoke filtration from kitchen ventilation extract systems
- Inline filtration system for the removal of grease and smoke as part of the DEFRA Guidance pollution control requirements
- Single Pass Option Up to 96% Efficient Grease and Smoke Removal
- Double Pass Option Up to 99% Efficient Grease and Smoke Removal
- Low Resistance / pressure drop
- Includes a grease drain point in the base of the unit
- Requires periodic maintenance to keep system effective and efficient
- Excellent for high volume / high grease catering establishments

QUALITY

doesn't have to be complicated!

Don't need complexity. You need answers. At Despel, we do the hard work for you. Everything we do from engineering to aftermarket service is designed to make it easy for you to succeed.



The most problematic part of ecology units is cleaning and maintenance. Leave all

maintenance work with our technical service maintenance contract, you focus on your business.

During cooking in industrial kitchens, unwanted factors such as steam, smoke, soot and bad odor that occur in cookers such as grills, ovens,

barbecues and cookers may adversely affect the personnel working in our kitchens and cause disturbances in the surrounding areas and thus the formation of complaints. It serves. As a result of these complaints to the competent authorities, most businesses have to stop their

activities. For this reason, esp filters are used in order to protect the environment, people and your business, and

not to cause loss of prestige and money.

ESP is used in the collection of wet and dry particulates like dust, oil mist, cooking fumes and various pollutants. Dirty air is drawn by the motor blower through a washable pre-filter which traps large dust particles. The remaining particles, some as small as 0,01 microns, pass into a strong electrical field (ionizing section) where the particulate receives an electrical charge. The charged particles then pass into a collector plate section made up of a series of equally spaced parallel plates. The particles are held in these plates.

Smoke











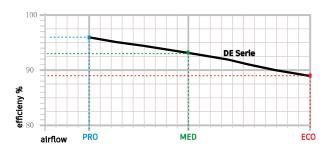
DE Series CHEF's Choice

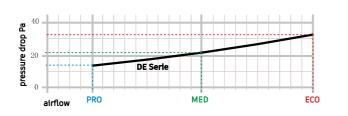
Engineered to Work Built to Last

Model	Efficiency @%89 Airflow m ³ /h
ECO-DE 30	5000
ECO-DE 60	10000
ECO-DE 80	12500
FCO-DF 100	15000

Model	Efficiency @%93 Airflow m ³ /h
MED-DE 30	4000
MED-DE 60	8000
MED-DE 80	10000
MED-DE 100	12000

Model	Efficiency @%96 Airflow m ³ /h
PRO-DE 30	3300
PRO-DE 60	6600
PRO-DE 80	8300
PRO-DE 100	10000





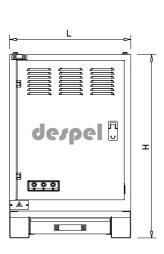
despel

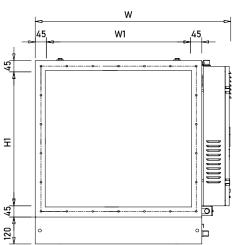
Technical Specifications



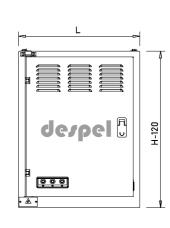
WITH DRAIN PAN

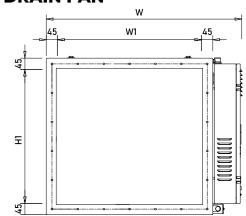






WITHOUT DRAIN PAN





MODELS	Cell Quantity	Input Power (V)	Power Rating (W)	Weight (kg)	Measurement (mm) L x W x H	Flange (mm) W1 x H1
DE 30	1	220V-50Hz	77	73	538x815x815	600x606
DE 60	2	220V-50Hz	154	119	538x1490x815	1276x606
DE 80	2	220V-50Hz	182	129	538x1595x815	1380x606
DE 100	3	220V-50Hz	231	165	538x2170x815	1955x606

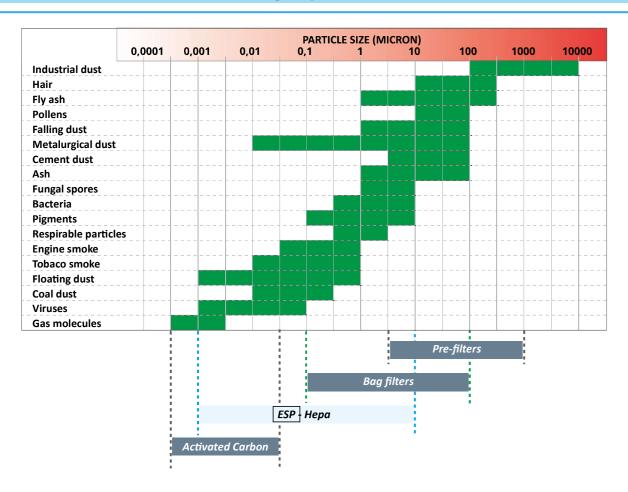






SELECTIONcriterias of ESP units

Filter selection table according to particle size



Grease characteristics arising from a range of commercial kitchens

modarate	high	very high	
✓			Pizza Restaurant
✓			Pita / Lahmacun
✓			- French
✓			- Italian
✓			Most Pubs
	✓		_ Chinese
	✓		_ Japanese
		✓	Kebab Houses
		✓	– Steakhouses
		✓	Fried Chicken
		✓	– Fish
		✓	– Fast Food Burger

GREASE CONTENT

Some References









































































































