

E-Fiber Accessories

Modular electrospinning/electrospraying platform



EFA150 - Fume hood system

Our certified fume-hoods with activated carbon filters are compatible with E-Fiber EF100 and EF300. In fact, E-Fiber can be completely integrated in the fume-hood, thus allowing you to immediately start electrospinning/spraying in any situation, without risks related to the solvent vapor used.

The activated carbon filters can be customized for specific solvents and chemical agents, according to customer's needs.

This accessory avoids connection to an extraction fume system, and the electrospinning can be used inside every lab or clean room without any arrangement or connection.

Entirely made of non-corrodible materials in order to guarantee resistance from the solvents used, and reliability. Available in single version for EF100 and both single or dual version for EF300.



ACTIVATED CARBON ADSORPTION CAPACITY TABLE

1. Substances with high adsorption capacity by activated carbon (20-50%)

Acetate methylcellulosolve	Dichloronitroethane	Naphtha
Acetophenone	Dichloropropane	Naphthalene
Acetic anhydride	Dichlorotetrafluoroethane	Nicotine
Acrylic acid	Diesel fumes	Nitrobenzene
Acrylonitrile	Diethylketone	Nitroethane
Adhesives	Dimethylaniline	Nitroglycerine
Aldehyde atrica	Dioxane	Nitromethane
Amilacetato	Dipropilketone	Nitropropane
Amyl Alcohol		Nitrotoluene
Amyl acetate	Ether dichlorethyl	Nonane
Amyl ether	Ethylacetate	Octane
Aniline	Ethylalcohol	Odor of putrefaction
Antiseptics	Ethylacrylate	Ozone
Argon	Ethylbenzene	
Aromas of food	Ethylbenzol	Paint fumes
Asphalt fumes	Ethylene	Palmitic
	Ethylformiate	Paradichlorobenzene
Benzaldehyde	Ethylsilicate	Pentanone
Benzene	Ethylsulfide	Perchloroethylene
Benzyl alcohol	Ethylene dichloride	Pesticides
Benzol		Phenol
Body odors	Fertilizers	Pyridine
Bromoform	Freon 11	Propylacetate
Bromine	Freon 12	Propylalcohol
Butanol	Freon 114	Propylchloride
Butylcellulosolve	Fruit	Propylether
Butylacetate	Furfural	Propylmercaptan
Butylalcohol		Propyonic acid
Butylchloride	Gasoline	Putrescine
Butylether		
Butyricacid	Heptene	Quinoline
	Heptane	
Camphor		Resins
Capril acid	Iodoform	
Caproaldehyde	Isopropyl acetate	Sewer odors
Carbolic acid	Isopropyl alcohol	Smells liquor
Carbon disulfide	Isopropyl ether	Smells of hospitals
Carbon tetrachloride		Smells of fish
Cellosolve	Kerosene	Styrene
Cellosolve acetate		Styrene Monomer
Charter deteriorated	Lactic acid	Sulphide composites
Cyclohexane	Liquid fuels	
Cyclohexanol	Lysol	Tar
Cyclohexanone	Lubricants, greases, oils	Tetrabromoethane
Cyclohexene		Tetrachloroethane
Chlorobenzene	Menthol	Tetrachloroethylene
Chlorobutadiene	Mercaptans	Thiophene
Chloroform	Mesityloxiide	Toluene
Cigarette smoke	Methylacetate	Toluidine
Cloronitropropane	Methyl	Turpentine
Chloropicrin	Methylacrylate	Trichloroethane
Combustion odors	Methylcellulosolve	Trichloroethylene
Cooking smells	Methylchloroform	
Creosol o / m / p	Methylcyclohexane	Urea
Crotonaldehyde	Methylcycloesanol	Uric acid
	Methylcyclohexanone	
Dean	Methylethylketone (butanone)	Valeraldeide
Detergents	Methylformate	Valeric acids
Dibromoethane	Methylmethacrylate	Vinegar
Dichlorobenzene	Methylene chloride	
Dichlorobenzol	Methyloxiide	Xylene
Dichlorodifluoromethane	Monochlorobenzene	Xylolo
Dichloroethane	Mono fluorine	
Dichloroethylene		
Dichloromethane		
Dichloromonofluoromethane		

2) Substances with good adsorption capacity by activated carbon (10-25%)

<p>Acetone Acetic acid Anidride sulfur Arsenic</p> <p>Butadiene Butiraldehyde</p> <p>Carbon disulphite Carbon disulphide Chlorine</p> <p>Dichlorodifluoromethane Dichlorotetrafluoroethane Diethylamine Dimethyl Dimethyl sulphate</p>	<p>Esilene Ethanol Ether Ethyl Ethylbromide Ethylchloride Ethylether Ethylene glycol Ethylmercaptan</p> <p>Fluorinetrichloromethane Formic acid Freon Furan</p> <p>Hexane Hydrocyanic acid Hydrogen sulphid</p> <p>Iodidric acid Isopropanol</p> <p>Lead</p>	<p>Mercaptonezene Methylalcohol - methanol Methylbromide Methylacetate Methylchloride Methylether Methylformate Methylmercaptan Monofluorine</p> <p>Pentane Phosgene Propionic aldehyde Pyridine Pyrrole Propionaldehyde</p> <p>Rubber</p> <p>Smells of slaughter Solvents</p> <p>Vinyl chloride</p>
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3) Substances with little adsorption capacity by activated carbon (< 15%)

Use impregnated carbon:

Aldehyde derivatives (5/15%)

Mercury (5/15%)

Acid Gases (5/15%)

Ammonia (5/15%)

Iodine (5/15%)

<p>Acetaldehyde (aldehyde and derivatives) Acetonitrile (ammonia and derivatives) Acrolein (aldehyde and derivatives) Amines (ammonia and derivatives) Ammonia (ammonia and derivatives) Arsine gas (acid gases)</p> <p>Bromopropane (acid gases) Butane gas (acid gases) Butene (acid gases)</p> <p>Carbon dioxide (acid gases) Carbon monoxide (acid gases)</p>	<p>Diethylamine (ammonia and derivatives) Dimethylamine (ammonia and derivatives)</p> <p>Ethidium bromide (acid gases) Ethylamine (ammonia and derivatives) Ethylene oxide (acid gases)</p> <p>Formaldehyde (formaldehyde and derivatives)</p> <p>Hydrobromic acid (acid gases) Hydrochloric acid (acid gases) Hydrofluoric acid (acid gases) Hydrogen selenide (acid gases) Hydrogen sulfide (acid gases)</p>	<p>Iodine (iodine)</p> <p>Nitric acid (acid gases) Nitrogen dioxide (acid gases)</p> <p>Phosphine gas (acid gases) Propane gas (acid gases) Propene (acid gases) Propylbromide (acid gases)</p> <p>Sulfide gas (acid gases) Sulfuric acid (acid gases) Sulphur dioxide (acid gases)</p> <p>Valeric aldehyde (aldehyde and derivatives)</p>
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4) Substances not adsorbed by activated carbon

Acetylene Carbonic acid Carbon monoxide	Ethane Ethylene Hydrogen	Methane Methylbutylketone Sulfur trioxide Sulphur dioxide
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TECHNICAL DATA

Material	Stainless steel for the structure Transparent plexiglass for the panels
Weight	EF100: single version, approx. 55 kg EF300: single version, approx 55kg EF300: double version, approx. 150 kg
Dimensions	EF100: 800 x 670 x 1150 mm (W x D x H) EF300 single version: 650x750x620 mm (W x D x H) EF300 double version: 1250 x 750 x 620 mm (W x D x H)
Volume of air filtered	EF100: 320 m ³ /h EF300 single version: 320 m ³ /h EF300 double version: 600 m ³ /h
Type of filters	Activated carbon filters
Mains connection	110-220 Vac ~ 50/60Hz
Nominal power	single version, max. 140W (+ max. 440W on auxiliary socket) double version, max. 280W (+ max. 440W on auxiliary socket)

ORDERING DETAILS

Product code	EFA150
Standard options	EFA150-100 EFA150-300-1 EFA150-300-2

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