



יחידת טיהור וסינון אויר COMBO

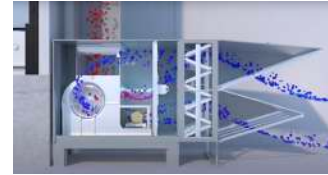


פתרונות הולכה וסינון אויר

שימושים

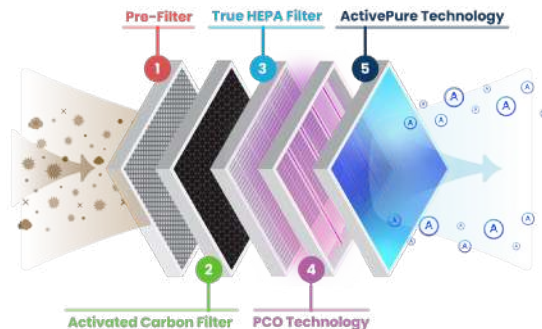
יחידת טיהור סינון חלקיקים וספיחת גזים וריחות מדגם COMBO היינו מתקן סינון רב דרגתי אשר מתוכנן לטפל בחלקיקים, גזים, אדים וריחות בעזרת מספר דרגות של מסנני חלקיקים עד דרגת HEPA H14 ותרמילי פחם פעיל בעלי יכולת ספיחה גבוהה

שימוש



- אספקת אוויר צח מסונן
- יניקה וסינון אוויר ממגוון תהליכי יצור
- פיצוי אוויר למערכות שאיבה
- חדרי צבע
- סינון וסחרור בתוך חלל המבנה
- חממות גידול
- חדרי עישון

יתרונות



- מגוון רחב של מדיות סינון בהתאם לסוג המזהם
- יעילות סינון סופית H14 99.97%
- תרמילי פחם פעיל עם אטם תעשייתי ומנגנון שחרור מהיר
- גישה נוחה להחלפה מהירה של המסננים

MF-E

The electrostatic filter module is composed of a self-loading frame made of extruded aluminium profiles supporting prepainted RAL 7032 grey sandwich panels with galvanized interior face and interposed 25 mm thick layer of expanded polyurethane foam to ensure complete air-tightness of the module.

The interior of the unit contains the filters mounted on runners: 2 prefilter, one metal mesh anti-intrusion spark trap filter, one polyester pleated filter with efficiency class EU4-G4. The filter is composed of an electrostatic cell with patented system, having filtration class A to UNI 11254, equivalent to class H12 to UNI 1822, which provides constant efficiency up to a load of 600 g of fine particulate.

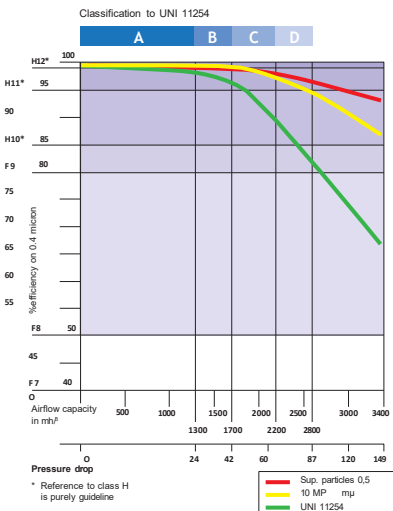
MF E



MOD. MF-E	AIRFLOW CAPACITY	PRESSURE DROP	FILTRATION CLASS	EFFICIENCY ILH	POWER SUPPLY	DIMENSIONS	Ø IN/OUT*	TOT. WEIGHT
	m ³ / h	Pa	CLASSE	MAX. - MIN. %	Volt	LxHxP mm	mm	Kg
50	1300-3400	25-150	A - D	99,60 - 93,20	230-50	700x700x600	250	60
70	1950-5000					700x1040x600	300	80
100	2600-6800					700x1400x600	350	100
120	3900-10200					700x1740x600	450	120
150	4550-11800					1400x1040x600		140
200	5200-13600					1400x1400x600		500

* The IN/OUT diameters are recommended and available in the optional inlet and outlet hoppers.

EFFICIENCY DATA



FILTERS COMPOSITION

MOD.	50 E	70 E	100 E	120 E	150 E	200 E	FILTER THICKNESS	EFFICIENCY	PENETRATION
Metal mesh prefilter 287x592 x22	No	1	No	1	2	No	mm 22	G2 25%	10 ≥ P µm
Metal mesh prefilter 592x592 x22	1	1	2	2	2	4			
Pleated prefilter 287x592 x 98	No	1	No	1	2	No	98 mm	EU4 - G4 70%	10 ≥ P > 3 µm
Pleated prefilter 592x 592x 98	1	1	2	2	2	4			
Electrostatic filter 287x592 x218	No	1	No	1	2	No	mm 218	H12* 99,97%	1 ≥ P > 0,3 µm
Electrostatic filter 592x592 x218	1	1	2	2	2	4			

MFT-TH

The mechanical filtration filter module is composed of a self-loading frame made of extruded aluminium profiles supporting RAL 7032 grey prepainted sandwich panels with galvanized interior face and interposed 25 mm thick layer of expanded polyurethane foam to ensure complete air-tightness of the module. The interior of the unit contains the filters mounted on runners.

In the special MF TH AIR CLEANER for laboratories and controlled air quality environments, the unit retains the technical-construction features of the standard AIR CLEANER with the exception of the filter section, due to the inclusion of a HEPA pocket bag filter (totally combustible) with filtration class H12, certified to EN 1822.

MFT - MF TH



MOD. MF	AIRFLOW CAPACITY	PRESSURE DROP	FILTRATION CLASS	EFFICIENCY ILH	FILTERING SURFACE	DIMENSIONS	Ø IN/OUT*	TOT. WEIGHT
	m ³ / h	Pa	CLASS	%	m ²	LxHxP mm	mm	Kg
50 T	5000	600	F8	95%	17	700x700x600	300	40
70 T	7000				25,5	700x1040x600	350	60
100 T	10000				34	700x1400x600	400	80
120 T	12000				42,5	700x1740x600	450	100
150 T	15000				51	1400x1040x600	500	120
200 T	20000				68	1400x1400x600	600	140
50 TH	5000	600	H12	99,97%	17	700x700x600	300	40
70 TH	7000				25,5	700x1040x600	350	60
100 TH	10000				34	700x1400x600	400	80
120 TH	12000				42,5	700x1740x600	450	100
150 TH	15000				51	1400x1040x600	500	120
200 TH	20000				68	1400x1400x600	600	140

* The IN/OUT diameters are recommended and available in the optional inlet and outlet hoppers.

MF FILTERS COMPOSITION

MOD.	50 T	70 T	100 T	120 T	150 T	200 T	FILTER THICKNESS	EFFICIENCY	PENETRATION
Metal mesh prefilter 287x592x22	No	1	No	1	2	No	22 mm	G2	10 ≥ P μm
Metal mesh prefilter 592x592x22	1	1	2	2	2	4		25%	
Pre-filtro Pieghettato 287x592x98	No	1	No	1	2	No	98 mm	EU4 - G4	10 ≥ P > 3 μm
Pleated prefilter 592x592x98	1	1	2	2	2	4		70%	
Pocket bag filter 287x592x292	No	1	No	1	2	No	292 mm	F8	1 ≥ P > 0,3 μm
Pocket bag filter 592x592x292	1	1	2	2	2	4		95%	

MF-C

The activated carbon filter module is composed of a self-loading frame made of extruded aluminium profiles supporting RAL 7032 grey prepainted sandwich panels with galvanized interior face and interposed 25 mm thick layer of expanded polyurethane foam. The interior of the unit contains the filters mounted on runners. The filter is composed of activated vegetable carbon extruded in cylindrical pieces. The filter is composed of activated vegetable carbon extruded in cylindrical pieces and vibration-filled in the Ø 160 mm 400 mm length cartridge: Individual cartridges, weighing approximately 3 kg each, are inserted in an array in a specific holder plate and can be easily changed once saturated.

MF C



MOD. MF C	AIRFLOW CAPACITY	PRESSURE DROP	CARTRIDGES		CARBON WEIGHT SINGLE MODULE	DIMENSIONS	Ø IN/OUT*	TOT. WEIGHT
	mc / h	Pa	N°	Ø mm x L mm	Kg	LxHxP mm	mm	Kg
50	3000	min. 200 max 300	9	160 x 400	28	700x700x600	250	60
70	4500		14		44	700x1040x600	300	80
100	6000		18		56	700x1400x600	350	100
120	7500		23		72	700x1740x600		120
150	9000		28		87	1400x1040x600	400	140
200	12000		36		112	1400x1400x600	450	160

N.B. On request we produce modules with Ø 140 mm cartridges containing activated carbon for special applications.

* The IN/OUT diameters are recommended and available in the optional inlet and outlet hoppers.



MF FILTERS COMPOSITION

MOD.	50 C	70 C	100 C	120 C	150 C	200 C	FILTER THICKNESS	EFFICIENCY	PENETRATION
Metal mesh prefilter 287x592x10	No	1	No	1	2	No	10 mm	G2 25%	10 ≥ P µm
Metal mesh prefilter 592 x 592 x 10	1	1	2	2	2	4			
Carbon filters 305 x 610 x 400	No	1	No	1	2	No	400 x Ø 160 mm	3,1 Kg	
Carbon filters 610 x 610 x 400	1	1	2	2	2	4			
Metal mesh postfilter 287x592x10	No	1	No	1	2	No	10 mm	G2 25%	10 ≥ P µm
Metal mesh postfilter 592 x 592 x 10	1	1	2	2	2	4			

COMBO MF

Filter modules can be coupled to create filtration / deodorisation units that can be utilised in a broad range of different applications. A combination can be created with electrostatic and activated carbon filters or a combination with mechanical rigid pocket bag filters and activated carbon filters.

These filtration units can be obtained also with various separate modules because we supply a specific connection kit designed to allow several modules to be fixed together; it is also possible, for the smaller sizes, to choose a suspended installation solution utilising specific mounting brackets.

It is important to consider that this type of filter is useful when a series of different work processes create gases or odours that must be removed prior to expulsion into the atmosphere; this highly compact provides both microparticulate removal and gas and odour removal in a single filter.

COMBINATIONS BETWEEN FILTER MODULES



MF TC



MF EC

MOD.	AIRFLOW CAPACITY	PRESSURE DROP	MODULE 1		MODULE 2		DIMENSIONS
	m ³ / h		Pa	MOD. MF	MOD. MF C	LxHxP mm	
50 EC	1300-3000	min. 250 max 400	Filtrazione elettrostatica	50 E	Filtrazione a carboni attivi	50	700x700x1200
70 EC	1950-4500			70 E		70	700x1040x1200
100 EC	2600-6000			100 E		100	700x1400x1200
120 EC	3900-7500			120 E		120	700x1740x1200
150 EC	4550-9000			150 E		150	1400x1040x1200
200 EC	5200-12000			200 E		200	1400x1400x1200
50 TC	3000	900	Filtrazione meccanica	50 T	Filtrazione a carboni attivi	50	700x700x1200
70 TC	4500			70 T		70	700x1040x1200
100 TC	6000			100 T		100	700x1400x1200
120 TC	7500			120 T		120	700x1740x1200
150 TC	9000			150 T		150	1400x1040x1200
200 TC	12000			200 T		200	1400x1400x1200

The quoted performance data were measured using suitable instruments in our laboratories.

N.B.: The airflow capacity of the combined filter (i.e. the two filter modules together) was established taking into account exclusively the module having the lowest maximum airflow capacity; this measure serves to increase the efficiency and working life of the other filter section.

ACCESSORIES

WALL MOUNTING BRACKET



Wall mounting kit composed of galvanized steel brackets and guides for fixing to the filter module. Suspended installation is compatible only with the smaller modules to facilitate installation and eliminate possible risks associated with wall mounting of excessively heavy modules.

- Kit for MF 50 (E - T - C) •
- Kit for MF 50 (EC - TC) •
- Kit for MF 70 (E - T - C) •

SQUARE TO ROUND ADAPTERS



Galvanized steel hopper to secure to the filter module for connection to the rigid suction and expulsion ducts. 2 adapters are required for correct installation.

PLENUM FOR SUCTION ARM



Adaptor in paint-finished welded sheet steel for connection between MF 50 filtering module and IBS - IBSA - IBF series suction arm.

N.B.: This accessory is used to create a wall-mounted module for mechanical or electrostatic filtration by means of modules MF 50 T and MF 50 E. The price list already contains the wall-mounted unit complete with extractor fan in the various configurations.

DIFFERENTIAL PRESSURE GAUGE



Differential pressure device with instantaneous analogical indication of the measured value.

N.B.: This accessory is used to achieve complete and instant control of the condition of the filters.

REGISTER DAMPER



Circular butterfly damper with graduated control in galvanised sheet steel, to be installed to obtain greater control over the air flow rate and velocity, and also to adjust the performance of the suction fan in order to ensure it operates within its standard parameters.



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