

Ecotech Series

The Ecotech is an extremely versatile mist collector for oil mist vapours and fumes suitable for many different applications. The wide range of its airflow and its modularity allows to use Ecotech from simple lathes to large machine centers, and also for realizing complex centralized systems. Not least the generous dimensions of its many filter stages, makes it the successful solution for the vapours treatment of industrial washing machines.

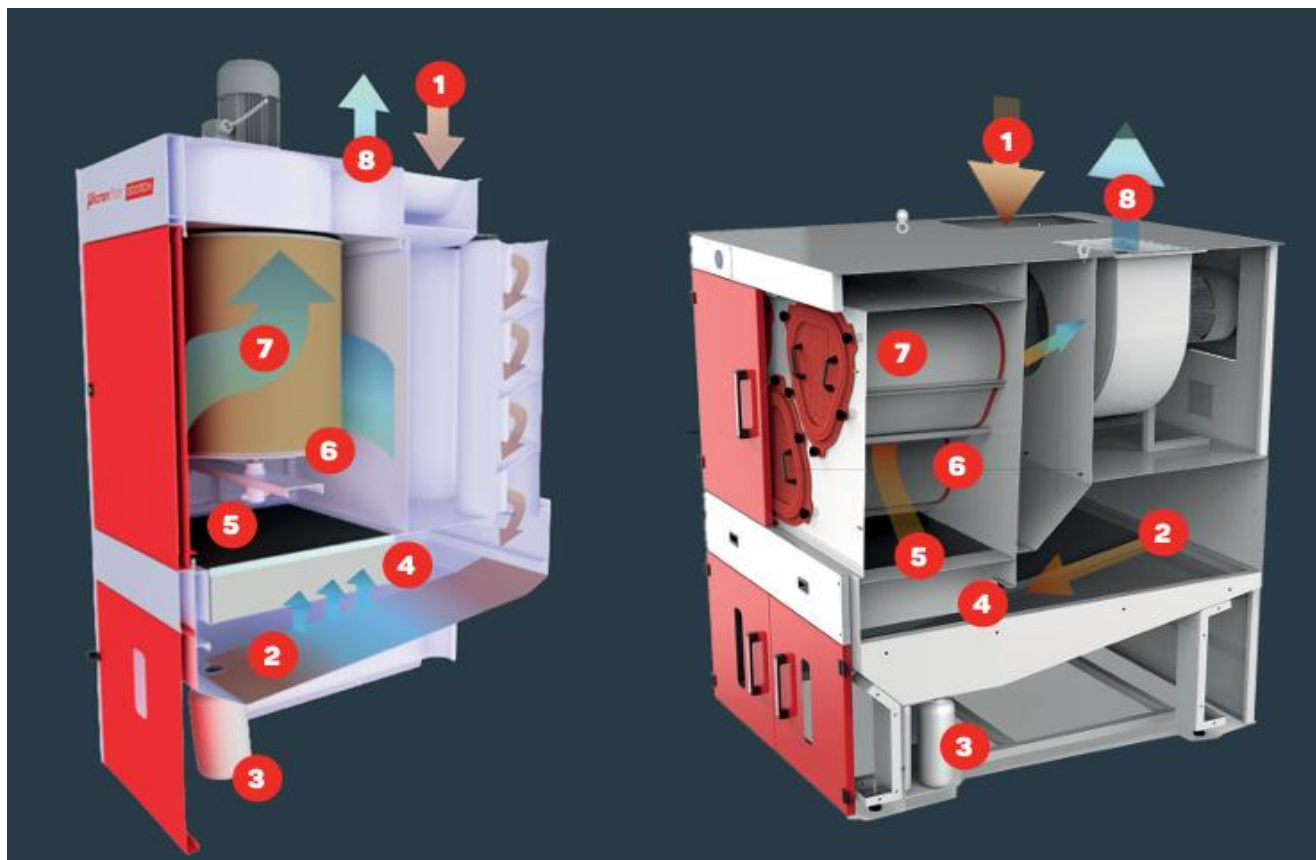


Features:

- Air-flow rate from 4000 to 12000 m³/h
- Up to 7 stages of filtration
- For large machine tools or centralized solutions

Working Principles:

The air polluted by oil mist passes through a mechanical separator (1) either cyclonic or chicane, inserted in a channel with the same cross-section as the suction inlet. In this pre-abatement section, thanks to the centrifugal force imparted by the fan, the pollutant droplets collide with the walls of the channel, causing them to slowly slide down to the collection hopper (2). The collected oil-coolant is conveyed to a special container (3) via a hydraulic pipe and, if necessary, recycled. In this way, almost all of the coarse oil particles suspended in the fluid are captured. The air flow then passes through the droplet separator (4) and the metal straw pre-filter (5). Thanks to the high efficiency and thickness of both the labyrinth filter and the metal filter, the air mass is now also purified of small to medium-sized pollutant droplets. To eliminate residual impurities such as mist and micro-mist the fluid is finally conveyed through a large surface filter cartridge (7) made of high quality polypropylene and cellulose, around which a special coalescing material mat (6) is wrapped to promote the aggregation of micro-mists and preserve the life of the cartridge itself. Once purified in this way, the air can finally be expelled through a grille located on the top of the device (8) or pass through the final (optional) HEPA H13 class filter stage.



Best application Solutions:

The ECOTECH is a collector of mists, vapours and smokes fitted with five progressive filtration stages (six stages adding the absolute filter HEPA H13)

The generous surfaces of its filtration stages and their relevant number, allows very long maintenance intervals. ECOTECH is a stand-alone solution, to be placed on floor, offering very quick and simple maintenance without incurring any hazardous operation. It is a very versatile mist collector, able to treat also the water vapours generated by industrial washing machines used in any sector, metal working, food, chemical.

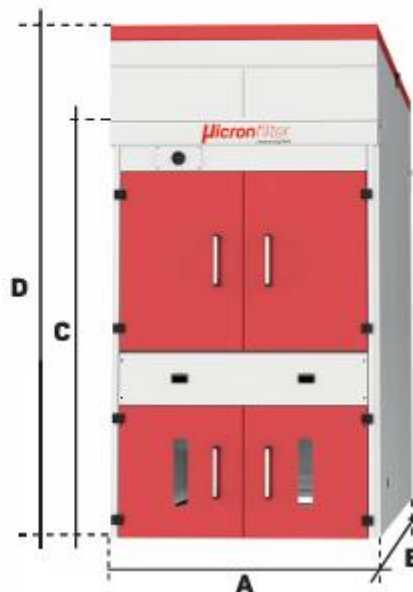
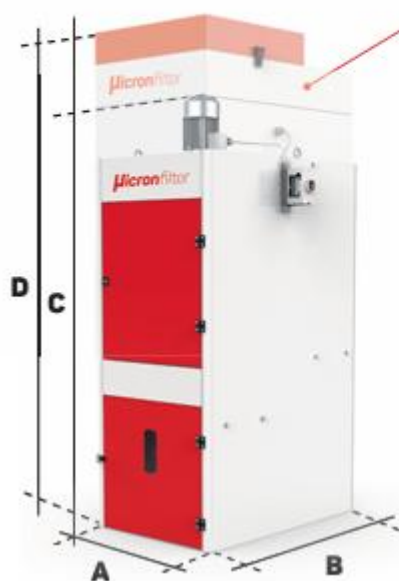
Ecotech throughputs cover from 2,000 to 8,000 m³/h solving the mist collection problems of machine tools having big dimensions. It is a modular solution which allows the realisation of centralized plants or single aisles serving groups of machine tools.

Dimensioni principali

Main dimensions

POST-FILTRAZIONE appartenente alla categoria dei filtri assoluti classe HEPA H13

POST FILTRATION with absolute filter type HEPA H13.



Model	A (mm)	B (mm)	C (mm)	D (mm)	Max Delivery (m³/h)	Power (Kw)	Average sound level dB(A)	Filtering Area (m²)	Weight (Kg)
Ecotech 4000	735	1450	2180	/	4000	2,2	76	25	290
Ecotech AXD 4000	735	1450	/	2488	3600	2,2	74	25	350
Ecotech 6000	1095	1610	2280	/	6000	4	76	30	420
Ecotech AXD 6000	1095	1610	/	2610	5400	4	74	30	500
Ecotech 10000	1495	2035	2115	/	10000	7,5	76	72	620
Ecotech AXD 10000	1495	2035	/	2740	9500	7,5	74	72	790
Ecotech 12000	1495	2035	2115	/	12000	11	76	72	630
Ecotech AXD 12000	1495	2035	/	2740	11500	11	74	72	800