Since 1995 the most efficient and **reliable technology** for oil mists and smoke filtration

The filter designed **for long operating life** with fully **environment protection**

SO.TEC
FORNITURA DI IMPIANTI E TECNOLOGIE APPLICATE

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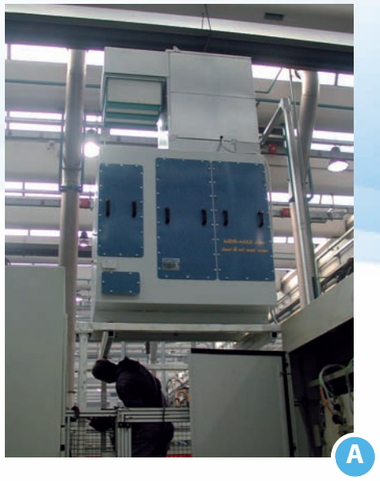
MINI-MAX


A


B


C


D


E


F

Since 1995 **SO.TEC** has designed coalescence technology for the filtration of oil mists and graphite coming from hot brass stamping and from various mechanical operations, e.g. tooling and machining. More than 100 medium and big size industrial plants (up to capacity of 180.000 m³/h) are now installed both in Italy and abroad.

Separation's efficiency reaches very high values:
- 99,99% for particles bigger than 1,0 micron;
- 99,00% for particles bigger than 0,5 micron;
- 95,00% for particles bigger than 0,2 micron.

Thanks to **MINI-MAX filters SO.TEC** proposes this efficient, reliable and durable technology also for applications that require low suction air flow (from 500 to 7000 m³/h for each filter) and high versatility installation.

MINI-MAX filters are normally composed by two filtration sections and can be equipped also with a third filtration section with absolute HEPA filters, to enable indoor air recirculation:

• The first filtration section separates the solid particles and the biggest oil particles with dimensions greater than one micron .

• The second filtration section, thanks to Microless® elements characterized by high aggregation/separation efficiency, allows very high filtration results comparable to certified absolute filters.

• The third filtration section, optional, consisting of absolute HEPA filters guarantees the air quality level to enable indoor recirculation. Second filtration's very high coalescence efficiency allows long operating time also for the absolute filter.

The functionality of the three filtration sections is controlled by differential pressure gauges that indicates their operating conditions.

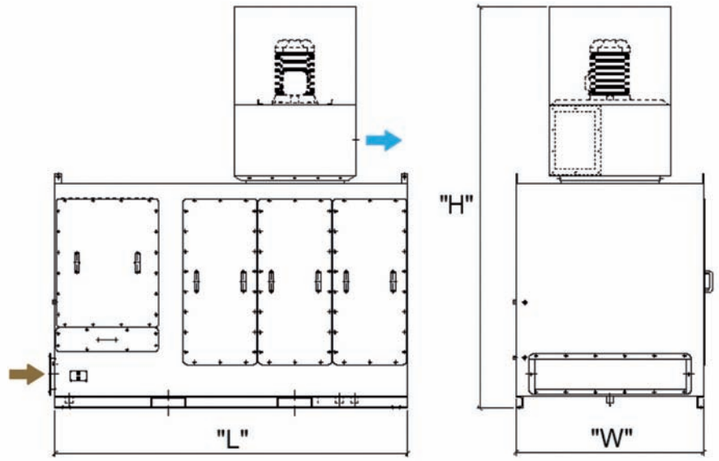
Basically the privilege of **SO.TEC** coalescence filters is the long operating time, continue high filtration efficiency, without any maintenance requirements.

On suction from tooling and machining operations, with oil or water-based lubricant, we can also guarantee more than 5 years' operating time for the coalescence filtration section.

Typical **MINI-MAX** applications fields:
- Bar turning;
- Machining with oil or water-based lubricant;
- Hot brass stamping;
- Heat treatments;
- Hot forging;
- Cold heading.

SO.TEC also designs and produces large capacity plants according to the specific customers's requirements.


G



Filter type

MINI-MAX O/D

A - Filter MINI-MAX 3000 O/D
with absolute HEPA filter
Capacity 3.000 m³/h
N° 2 Cast iron automatic tooling machine
Automotive

B - Filter MINI-MAX 3000 O/D
with absolute HEPA filter
Capacity 3.000 m³/h
Cast iron automatic tooling machine
Automotive

C - Filter MINI-MAX 3000 O/D
Capacity 3.000 m³/h Brass hardening

D - Filter MINI-MAX 5000 O/D
Capacity 5.000 m³/h
Automatic cold forging - Automotive

E - Filter MINI-MAX 4000 O/D
Capacity 4.000 m³/h
Cold forging (fastening)

F - Filter MINI-MAX 7000 O/D
Capacity 7.000 m³/h
Oil grinding machines.

G- Filter MINI-MAX 1700 O/D
Capacity 1.700 m³/h
Hot brass stamping

TYPE	500	1000	1500	2000	3000	4000 lp	4000 hp	5000	6000	7000
Air flow m³/h	500	1000	1500	2000	3000	4000	4000	5000	6000	7000
Pressure Pa	2100	2300	3200	3500	3100	3400	4000	4100	4000	3950
Power absorption kW	0,7	0,9	1,7	2,4	3,2	4,6	5,4	7	8,2	9,4
Motor power kW	1,1	1,1	3	4	4	5,5	7,5	11	15	15
Noise dB(A)	60	68	68	72	72	70	75	76	77	77
Noise with sound box dB(A)	/	/	66	70	70	68	72	73	74	74
Total weight Kg.	290	320	620	670	770	1300	1380	1750	1850	1950
Lenght "L" mm.	1220	1220	980	1830	1480	2330	2330	3300	3600	3600
Width "W" mm	780	820	1240	860	1240	1240	1240	1240	1240	1240
Height "H"mm	1650	1790	2330	2330	2330	2570	2650	2860	2860	3000

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