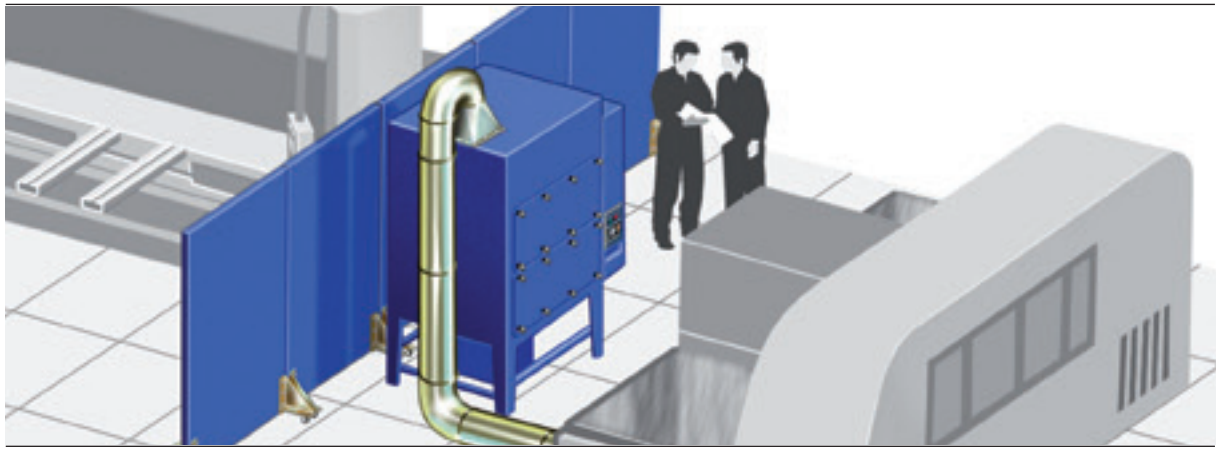
IFC-T

APPLICATIONS
The IFC-T series filter module is specifically designed to solve problems of aspiration and filtration of fumes, dust and waste deriving from thermal cutting with currently available technology including laser, plasma, and oxygen lance cutting.

CONSTRUCTION FEATURES

- Structure composed of 3 and 4 mm gauge welded sheet steel panels with paint finish, clean air plenum, made with same paneling, dust collection hopper made of painted sheet steel. Dust discharge bin with castor wheels, located under the hopper.
- Front hatch for maintenance access and certified compressed air accumulator. Membrane type compressed air pressure reducer with fast response speed, complete with Full-Immersion type pilot solenoid valve.
- Very high efficiency filter cartridges having total filtration surface area of 15.8 m2 each, suitably sized and in having filtration efficiency of 99.999 % for particulate down to 0.5 micron.
- SUCTION fan mounted on filter roof, equipped with motor, the power of which depends on the position of the filter with respect to the length and shape of the connecting duct. Sound-insulated box to reduce the sound pressure level produced by the fan.
- Electrical panel to European standards, including painted steel cabinet with IP54 protection rating, with door lock disconnect switch, control voltage ON indicator light, motor thermal trip indicator light, and illuminated fan Start/Stop buttons.
- Electronic control unit with automatic filter loading control system that reduces wear of the filter elements resulting in significant power savings and lower running costs.

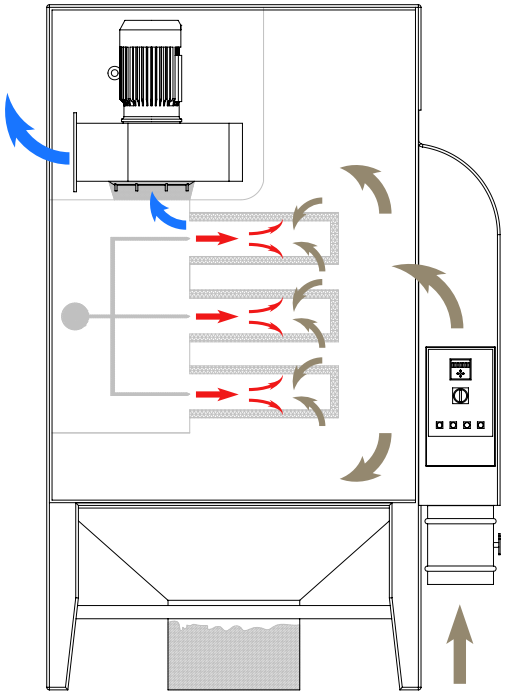


CARTRIDGE FILTERS FOR THERMAL CUTTING FUMES

In the standard AIR CLEANER these units can be employed with excellent results for air cleaning in sheet metal plasma, laser, and oxygen arc cutting operations.
These units ensure:
- High filtration efficiency (99.999 %).
- Enhanced cartridge cleaning.
- Reduced pressure drops.
- Constant suction air flow rate through time.
- Longer filter cartridge life.
- Guaranteed quality of atmospheric emissions.

Unit frame composed of 3 and 4 mm gauge sheet steel panels.
Clean air plenum with panel structure as above.
Steel hopper for collection of dust intercepted by the filter.
Castor wheel mounted dust collection bins located under the hopper.
Front access hatch for maintenance operations.

Air inlet model with suction fan



TECHNICAL DATA						
MOD.	MAX. AIRFLOW CAPACITY	CARTRIDGES	SUCTION FAN POWER	DIMENSIONS	HEIGHT	WEIGHT
	m^3 / h	N°	KW	LxP mm	mm	Kg
4	2000 - 3000	4	3 - 4	1250 x 1320	2200	610
6	3000 - 5400	6	4 - 5,5 - 7,5	1300 x 1420	2600	750
9	4500 - 8100	9	7,5 - 9 - 11	1950 x 1620	3260	1300
12	6000 - 10800	12	15 - 18,5 - 22		3700	1500
16	8000 - 14400	16	18,5 - 22	2300 x 1800	3800	1700

N.B. *Filter modules can be supplied without extractor.*

1. Polluted air inlet
2. Filter cartridges
3. Particulate collection containers
4. High pressure compressed air
5. Filter unloading solenoid valves
6. Clean air outlet

aeroservice®

IFC-T

DIMENSIONS TABLE

MOD.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
4	950	1910	2280	1300	710	–	–	–	–	–	–	460	250	140	300
6	1300	2300	2425	1400	710	1050	208	175	–	–	–	460	250	140	300
9	1950	2910	3250	1300	828	1150	800	300	500	540	N°12 M10	500	300	225	300
12	1950	3320	3690	1300	328	1150	800	300	500	540	N°12 M10	650	350	225	300
16	2280	3320	3720	1300	825	1370	910	390	400	650	690	N°8 M10	650	400	255