



TECHNICAL DATA ECO SERIES

Mist collectors for neat oil, oil-water emulsion, fume and dust on machine tools



THE ULTIMATE SOLUTION

for the filtration of oil mist in metalworking workshops

VISIT OUR WEB SITE
www.arfiltrazioni.com

STRONG POINTS

ECO SERIES



More than 25,000
units installed!

Compact!

100%

Tested units
EN: 1822
D.d.u.o.n 12772

100%

With relevant test
certificate
for each unit

80%

Re-Condensed
coolant
drained back for
re-use or collection

99.995%

Filtration efficiency
up to 99.995% HEPA
H13
Particles with
volume $\geq 0.15 \mu$

AR Filtrazioni is producer of a new generation of mist collectors for the re-condensation and purification of every type of atmospheric pollutant generated during machining processing of machine tools (machining centers, lathes, grinders, laser and washing machines, etc.) working till three shifts.

ADVANTAGES



- Easy and simple maintenance, once a year
- Robustness of mechanical parts
- Recovery of 80% of the recondensed oil
- Total compliance with the strictest Italian and European regulations
- Energy saving
- Reduction of CO₂ emissions
- Protection of sensitive machine tool parts
- Respect for people and environment

AIR CLEANERS OF OIL MIST, FUME AND DUST FOR MACHINE TOOLS

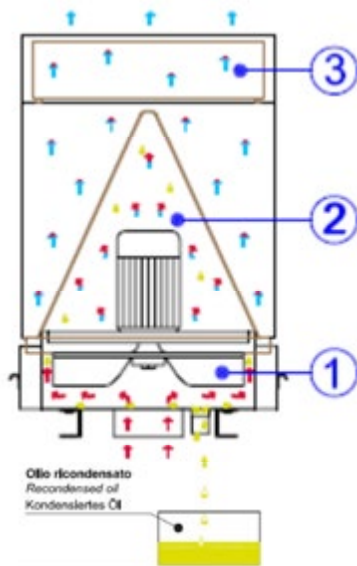
AR FILTRAZIONI S.R.L.
Via dell'Industria 59/61
Bergamo BG 24126

+ 39 035 533822
web@arfiltrazioni.it

www.arfiltrazioni.com
www.mistcollector.com

WORKING PRINCIPLE

Air cleaners of the ECO series are suitable for the extraction, re-condensation and purification of oil mist, fume, micro-mist and micro-dust generated by machine tools.



ECO F

1° STAGE CENTRIFUGE

SELF-CLEANING CENTRIFUGAL CONDENSER

- Self-cleaning
- Balanced (no vibration)
- It thickens 80% of the oil mist, by centrifugal effect

2° STAGE POCKET FILTER

COALESCENCE FILTER

European standards ISO EN 16890
Filtration efficiency up to 95% - particles with volume 0.4 μ

- Replacement every 6/18 months
- Glass-fibre fabric with a wide filtering surface

3° STAGE HEPA FILTER

FINAL FILTRATION WITH HIGH (EPA) OR VERY HIGH (HEPA) FILTRATION EFFICIENCY

European standards EN1822
Filtration efficiency up to 99.995%.
Particles with volume $\geq 0.15\mu$

- Replacement every 24/36 months



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ECO

WITH

PRE-FILTER

WORKING PRINCIPLE ECO PF

X STAGE METAL FILTER

PREFILTRATION CELL IN GALVANIZED STEEL

European standards ISO EN 16890

Filtration efficiency > 95% - Particles with volume 3 μ

- Washable (12/18 months)
- Hold any chips, thanks to a robust metal frame with safety net
- Sieve effect, exploits gravity to convey the re-condensed oil into the drainage tube

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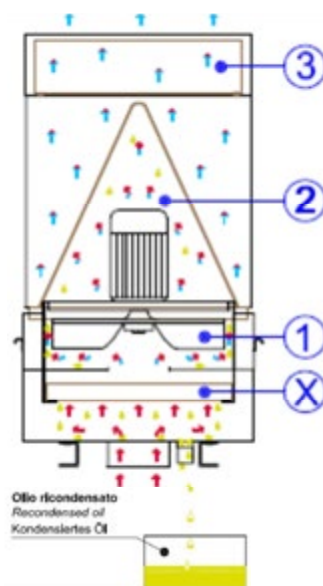
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TECHNICAL DATA AIR FLOW AND POWER

EACH UNIT IS EQUIPPED WITH

- **ABB / SIEMENS** motor protection switch
- Filter clogging detector; analogue pressure gauge
- Drainage tube which allows the recovery of (about 80% if neat oil) recondensed coolant
- Up to **HEPA H13** final filter with very high filtration efficiency



ECO

600m³/h / 350 CFM

F
550m³/h / 325 CFM

P
550m³/h / 325 CFM

PF
500m³/h / 300 CFM

F
950m³/h / 550 CFM

ECO TWO

1000m³/h / 600 CFM

P
950m³/h / 550 CFM

PF
850m³/h / 500 CFM

TECHNICAL DATA

MODEL	SUCTION INLET Ømm	MAX. AIRFLOW m ³ /h - CFM	POWER HP - kW	TENSION FREQUENCY V Hz	NOISE dBa	WEIGHT Kg - Lb
ECO	100	600 / 350	0,5 - 0,37	230 / 400 / 50	67	28 / 62
ECO F	100	550 / 325	0,5 - 0,37	230 / 400 / 50	67	33 / 73
ECO FA	100	550 / 325	0,5 - 0,37	230 / 400 / 50	67	40 / 88
ECO P	100	550 / 325	0,5 - 0,37	230 / 400 / 50	67	38 / 84
ECO PF	100	500 / 300	0,5 - 0,37	230 / 400 / 50	67	43 / 95
ECO PFA	100	500 / 300	0,5 - 0,37	230 / 400 / 50	67	50 / 110
ECO TWO	120	1000 / 600	0,75 - 0,55	230 / 400 / 50	68	40 / 88
ECO TWO F	120	950 / 550	0,75 - 0,55	230 / 400 / 50	68	48 / 106
ECO TWO P	120	950 / 550	0,75 - 0,55	230 / 400 / 50	68	57 / 126
ECO TWO PF	120	850 / 500	0,75 - 0,55	230 / 400 / 50	68	65 / 143

Air flow capacity may vary based on filters type and combination.

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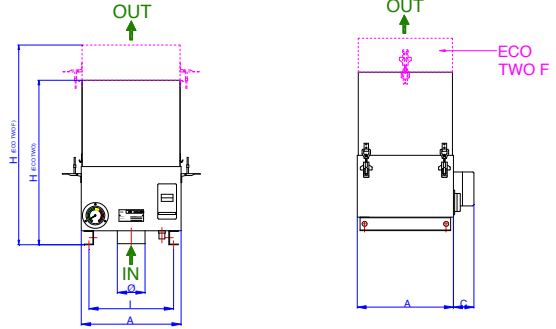
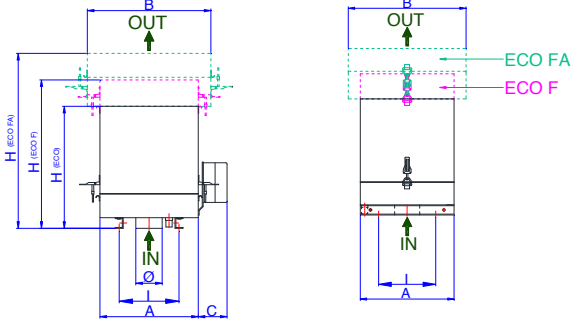
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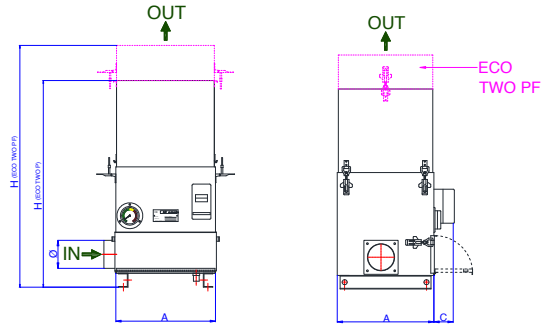
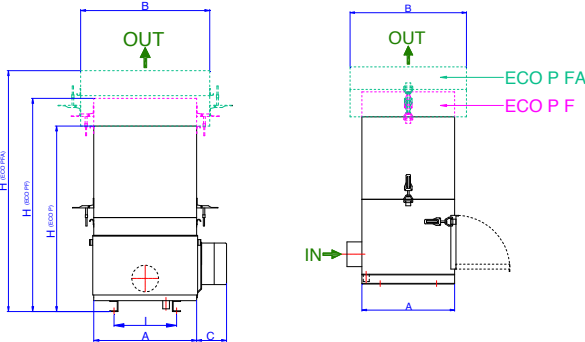
ECO - ECO F - ECO FA

ECO TWO - ECO TWO F



ECO P - ECO PF - ECO PFA

ECO TWO P - ECO TWO PF



6

DIMENSIONS mm	MODEL	A	B	C	H	I
	ECO					
ECO		370	-	150	460	225-Ø9
ECO F		370	-	150	560	225-Ø9
ECO FA		370	465	150	660	225-Ø9
ECO P		370	-	150	670	225-Ø9
ECO PF		370	-	150	770	225-Ø9
ECO PFA		370	465	150	870	225-Ø9
ECO TWO		425	-	150	705	360-Ø9
ECO TWO F		425	-	150	855	360-Ø9
ECO TWO P		425	-	150	885	360-Ø9
ECO TWO PF		425	-	150	1035	360-Ø9

AR Filtrazioni reserves the right to make, at any moment and without notice, any change necessary to improve its products. The technical data of this data sheet are not binding.

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OPTIONAL



OVERSIZED FA FILTER

Excellent in case of high quantities of oil mist and fumes.



HARTING PLUG

Connects the filter unit directly to the PLC of your machine tool.



PDMF 4.0

In addition to the analogue filter clogging detector, our digital pressure gauge sends a signal to the machine tool, warning you to do maintenance.



ACTIVATED CARBON CELL

Odours, fume, VOCs and formaldehyde, eliminate them with active carbon.

R&D OFFICE

AR Filtrazioni also stands for constant research. The R&D office is daily engaged in the research and development of innovative technical solutions for the purification of oil mists, fumes and micro-dusts generated during machining processing of machine tools.

All series of air cleaners and accessories are certified "Made in Italy".

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INSTALLATION

AR Filtrazioni offers always the turnkey solution, installing the filters at the customer's premises thanks to its specialized technical personnel. Otherwise we leave complete autonomy to the customer since each system is equipped with an installation kit and instruction manual, to allowing the installation of the filter units for oil mist, fume and micro-dust in all over the world.



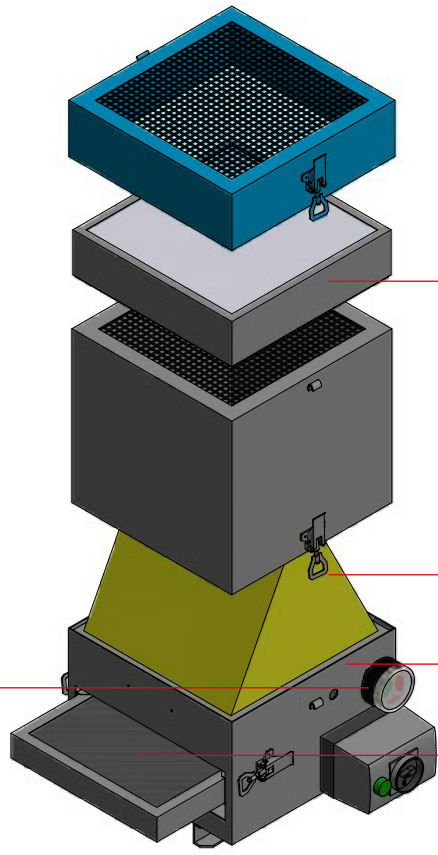
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MAINTENANCE ECO SERIES



**DEVICE TO MONITOR
FILTER CONDITIONS**
Red zone C
Clogged air cleaner



This **maintenance programme** shows average times result of statistics elaborated on the basis of the thousands of plants that **AR Filtrazioni** maintains annually at its customers.

VALUE

Forty years lasting
know-how

Free consultancy

Free of charge technical
inspection and analysis

Sales and Assistance with
non-binding quotation

60 days testing

After-sales

Installation

24 months warranty

Maintenance contract

PLUS

- **Filters and spare parts supply time:** always in stock and ready for delivery
- **Environmental and technical consultancy:** free of charge both during the order phase and throughout the life of the plant
- **Delivery date of filtration units:** 2 to 4 weeks
- **Warranty:** 2 years
- **Test:** Do you have to make an important investment?
Test one! We guarantee you the way "satisfied or refunded"

- **Design, study and realization of ad hoc industrial filtration systems with an on-the-spot investigation and data collection of the various machine tools and the study of the suitable system for your needs.**
- **Outsourcing maintenance. We carry out and we are responsible of it! Releasing a maintenance certificate with legal value.**
- **Do you use spare parts of oil mist and smoke not original? Do not lose the guarantee on the system and the certainty of the filtering efficiency. Contact us and learn how save money.**



REFERENCES

Some customers who have chosen AR Filtrazioni air cleaners



DMG MORI



ERBA S.P.A.



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