



TECHNICAL DATA AR 10.000

Ideal for suction and purification of fume, vapours of oil-water emulsion and micro-dusts.

Optimal filtering solution of oil mists for operating islands with more machine tools.



THE ULTIMATE SOLUTION

For the filtration of oil mist in metalworking workshops

VISITA IL NOSTRO SITO WEB
www.arfiltrazioni.com

STRONG POINTS

AR 10.000

Strong!
Up to 10.000 m³/h



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

100%

Self-cleaning
or regenerable filters

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 the recondensed oil
- Total compliance with the strictest regulations
- Energy saving of 916,00 € for each plant
- Reduction of CO₂ emissions of 12,000 kg/year, for each plant
- 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

It is suitable for suction and purification of large quantities of oil mist and fume produced during wet machining processes and appropriate for purifying particles of different sizes, simply using interchangeable filters with different degrees of filtration efficiency.

AR 10.000 Series is able to semi-centralized solutions.

Thanks to its modularity, each air cleaner is equipped with stage of High (with EPA filter) or Highest (with HEPA filter) filtration efficiency tested in accordance with European norm EN 1822 suitable for holding micro-mist and smoke.

They are equipped with low power consumption motor IE2/IE3 class, with electric control panel and gauge to monitor filter conditions.

For specific requirements is possible to opt for suitable impellers.

A drainage allows the recovery of re-condensed coolant liquid.

The AR 10.000 series is conform to the Technical attachment n.32 published in the official Lombardy Regional bulletin n.2 of 10th January 2012 D.d.u.o. n.12772 of 23/12/11 – emission aspirated and treated by filter on top of machine with re-entry in the work place.

AR 10.000

1°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

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 COALESCENCE FILTER

BLACK PANEL FILTER BY COALESCENCE EFFECT

- Washable
- Diffuser
- Noise attenuator

4°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 μ

TECHNICAL DATA AIR FLOW AND POWER

EACH UNIT IS EQUIPPED WITH

- Low consumption motor **IE3** class (ULCSA on request)
- electrical control panel star-delta start
- Filter clogging detector digital pressure
- Up to **HEPA H13** final filter with very high filtration efficiency
- Drainage tube which allows the recovery of (about 80% if neat oil) re-condensed coolant



AR 10.000
9600 m³/h

SUITABILITY FOR POLLUTANT

- LARGE QUANTITIES OF FUMES/ OIL-WATER EMULSION/MICRO-DUSTS

> **AR 10.000 SERIES**

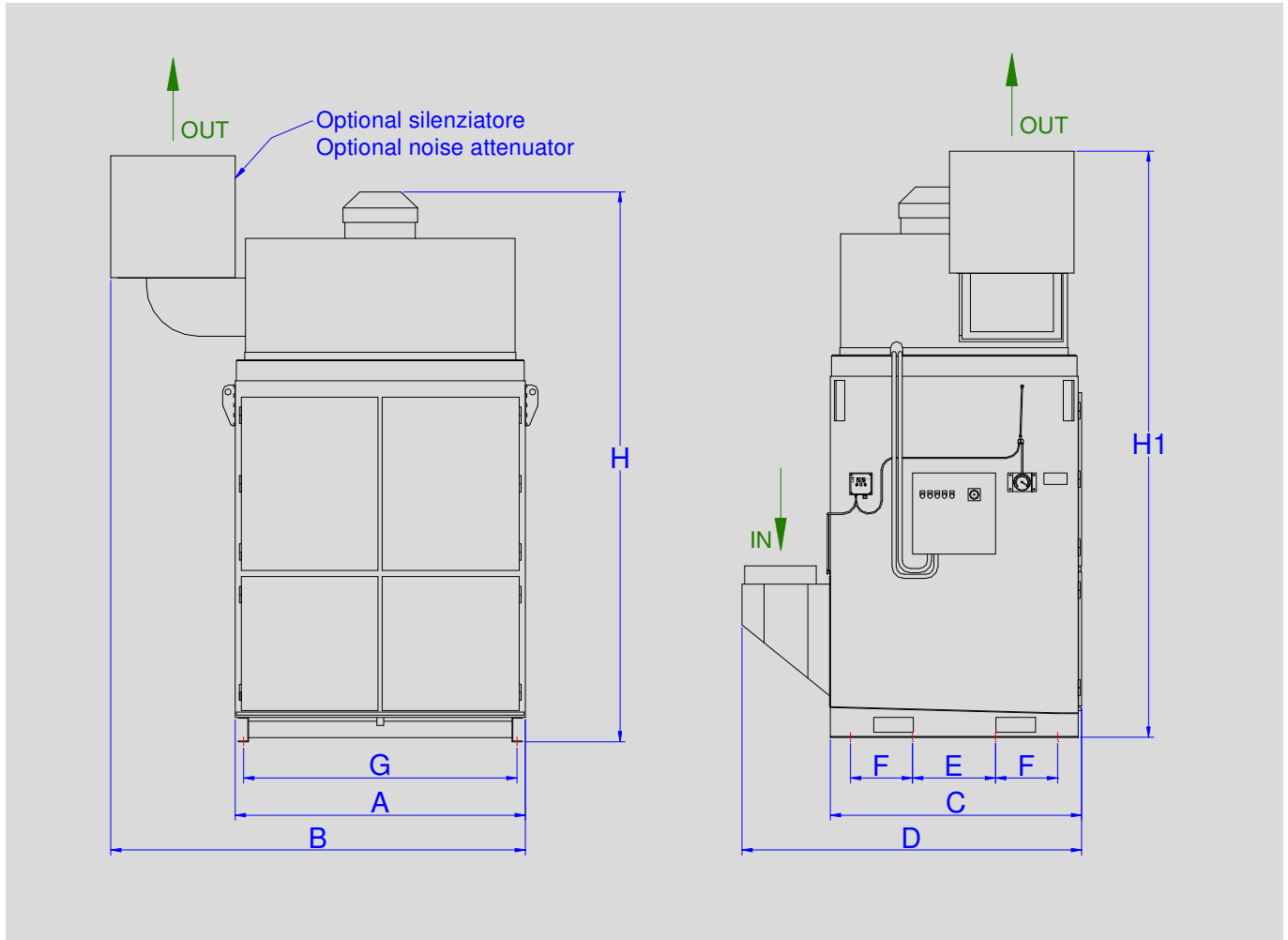
TECHNICAL DATA

MODEL	SUCTION INLET Ømm	MAX. AIRFLOW m ³ /h	POWER kW	HEAD mm/H ₂ O	TENSION FREQUENCY V Hz	NOISE dBa	WEIGHT Kg
AR 10.000	350/400	9.600	9	200	400/690 50	79	780

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

TECHNICAL DATA

DIMENSIONS



A	B	C	D	H	H1	E	F	G
mm	mm	mm	mm	mm	mm	mm	mm	mm
1400	2060	1200	1700	2720	2970	365	315	1320

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.

OPTIONAL



ACTIVATED CARBON CELL

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

84 Kg active carbon



NOISE ATTENUATOR WITH OGIVE

To reduce noise



PDMF 4.0 + ELECTRICAL PANEL

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



SUPPORT WITH TANK

Ideal for collecting recondensed coolant

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".

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.



AR 10.000 installation on SACMA automatic presses



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



AR 10.000 installation on Pietro Carnaghi lathes



REGULATIONS



EN 1822

D.d.u.o. n.12772

- At European Standards ISO EN 16890 (ex EN779) with a filtration efficiency of $\geq 95\%$ - particles with volume $\geq 0.4 \mu$
- Final filtration stage according to EN1822 and Italian standards with High (EPA) or Very High (HEPA) filtration efficiency up to 99.995% of particles with volume $0,15 \mu$ (micro-mists, micro-dusts, fume)
- Device to monitor filter conditions
- Motor protection switch (in accordance with CE standards)
- We issue a test certificate for each unit

HEPA Filter up to H13 EN 1822

Very high efficiency filter

Filtration efficiency up to 99.995% of particles with volume $\geq 0.15\mu$ (micro-particles)



REFERRING TO THE ITALIAN EFFECTIVE RULES:

ARNO "Plus" series complies with the **Technical Annex n.32** of 10 January 2012 - **D.d.u.o. n.12772 of 23/12/11** referring to extracted and filtered emissions by on-board filter with clean air returned to the workshop, through the top of the unit.

FILTER UNIT TEST BY STUDIO AMBIENTE S.N.C

MIST COLLECTOR'S OUTPUT ON AUTOMATIC LATHE 6/32

Parameter	Determined values (mg/m ³)	Reference levels (TLV/TWA) (mg/m ³)
Mineral oil / oil mist	0,04	5

Environment temperature (C°) 18.5 C° (65,3 F°)

Specific sampling to evaluate the efficiency of the suction and filter system after periodical maintenance with filter replacement (ARNO 2CF filter unit no. 13 serial no. 04607/2007 with new ABSOLUTE filter HEPA) placed to control an automatic lathe for machining the bar in AVP with neat oil coolant.

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.



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



CONTACT US

AR FILTRAZIONI SRL



Via Dell' Industria 59/61
24126 Bergamo ITALIA



+39 035 533822



web@arfiltrazioni.it

www.arfiltrazioni.com



www.mistcollector.com

www.nebbieoleose.it

www.luftreinigerfueroelnebel.de