



TECHNICAL DATA ARIS SERIES

Mist collectors for huge quantities of oil mists, fumes and micro-dusts.
For machine tools 24/7



THE ULTIMATE SOLUTION

For the filtration of oil mist in
metalworking workshops

VISIT OUR WEB SITE
www.arfiltrazioni.com

STRONG POINTS

ARIS SERIES

Strong!
Up to 6,000 m³/h
Up to 3,560 CFM



100%

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

100%

With relevant test certificate
for each unit

100%

Suitable for centralised systems

100%

High duty production

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 recondensed oil
- Total compliance with the strictest Italian and European regulations
- Energy saving of 415,00 € for each plant
- Reduction of CO₂ emissions
- Protection of sensitive machine tool parts
- Respect for people and environment

MIST COLLECTORS 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

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

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, micro-dust and smoke.

A drainage allows the recovery of re-condensed coolant liquid. On request carbon cell for exhalation and odour or in BSA version with articulated support arm.

The ARIS 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.

ARIS M/L

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

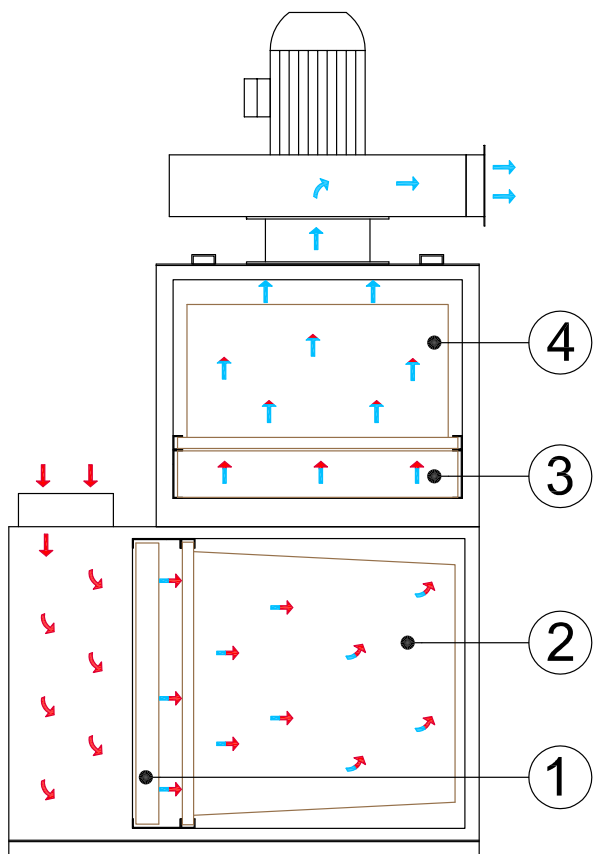
FINAL FILTRATION WITH HIGH (EPA) or VERY HIGH (HEPA) FILTRATION EFFICIENCY

European standards EN1822

Filtration efficiency up to 99.995%.

Particles with volume $\geq 0.15\mu$

- Replacement every 24/36 months



TECHNICAL DATA AIR FLOW AND POWER

EACH UNIT IS EQUIPPED WITH

- Low consumption motor **IE3** class (ULCSA on request)
- **ABB / SIEMENS** (ULCSA on request) motor protection switch
- Filter clogging detector; analogue/digital pressure gauge 4.0
- Drainage tube which allows the recovery of re-condensed coolant
- Up to **HEPA H13** final filter with very high filtration efficiency



ARIS M

M2
2000 m³/h
1200 CFM

M3
3000 m³/h
1770 CFM

M4
4000 m³/h
2360 CFM



ARIS L

L4
4000 m³/h
2360 CFM

L6
6000 m³/h
3560 CFM

MODEL ARIS	SUCTION INLET Ømm	MAX. AIRFLOW m ³ /h - CFM	HEAD mm/h ₂ O	POWER kW	TENSION FREQUENCY V Hz	NOISE dBa	WEIGHT Kg
M2	150	2000 1200	200	1,5	230/400 50	72	210
M3	200	3000 1770	230	3	230/400 50	76	230
M4	200/250	4000 2360	290	4	230/400 50	77 *	235
L4	250/300	4000 2360	290	4	230/400 50	78 *	340
L6	250/300	6000 3560	130	4	230/400 50	80 *	370

* = with noise attenuator

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

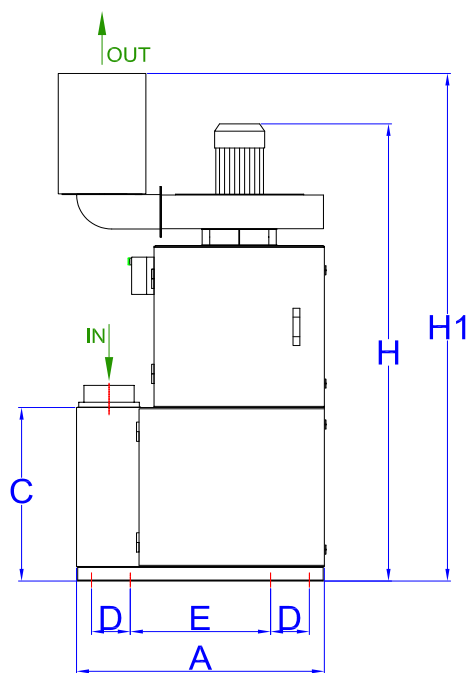
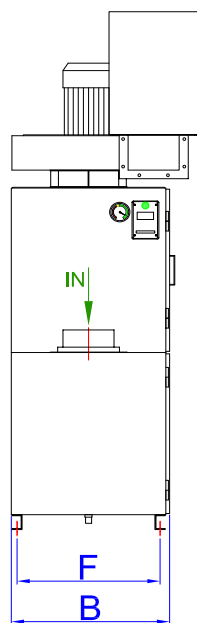
TECHNICAL DATA



ARIS M SERIES



ARIS L SERIES



DIMENSIONS mm	MODEL ARIS	A	B	C	H	H1	D	E	F
		mm	mm	mm	mm	mm	mm	mm	mm
	M2	990	620	720	1900	2150	155	560	560
	M3	990	620	720	1970	2220	155	560	560
	M4	990	620	720	2020	2270	155	560	560
	L4	1100	1000	850	2160	2400	115	560	960
	L6	1100	1000	850	2250	2500	115	560	960

* = with noise attenuator.

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.

MIST COLLECTORS 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

OPTIONAL



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.



STAINLESS STEEL

Even more robust! Designed for applications on industrial washing machines.

HARTING PLUG

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



ARTICULATED SUCTION ARM AND KIT WHEELS

The flexible and portable extraction unit for all manual deburring and welding and occasional operations.



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".

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.

ARIS series optimal for semi-centralised industrial filtration solutions



ARIS Series installation on a boring-and-milling machine





Oil mist treatment for VISUAL vertical turning machines



MIST COLLECTORS OF OIL MIST, FUME AND DUST FOR MACHINE TOOLS

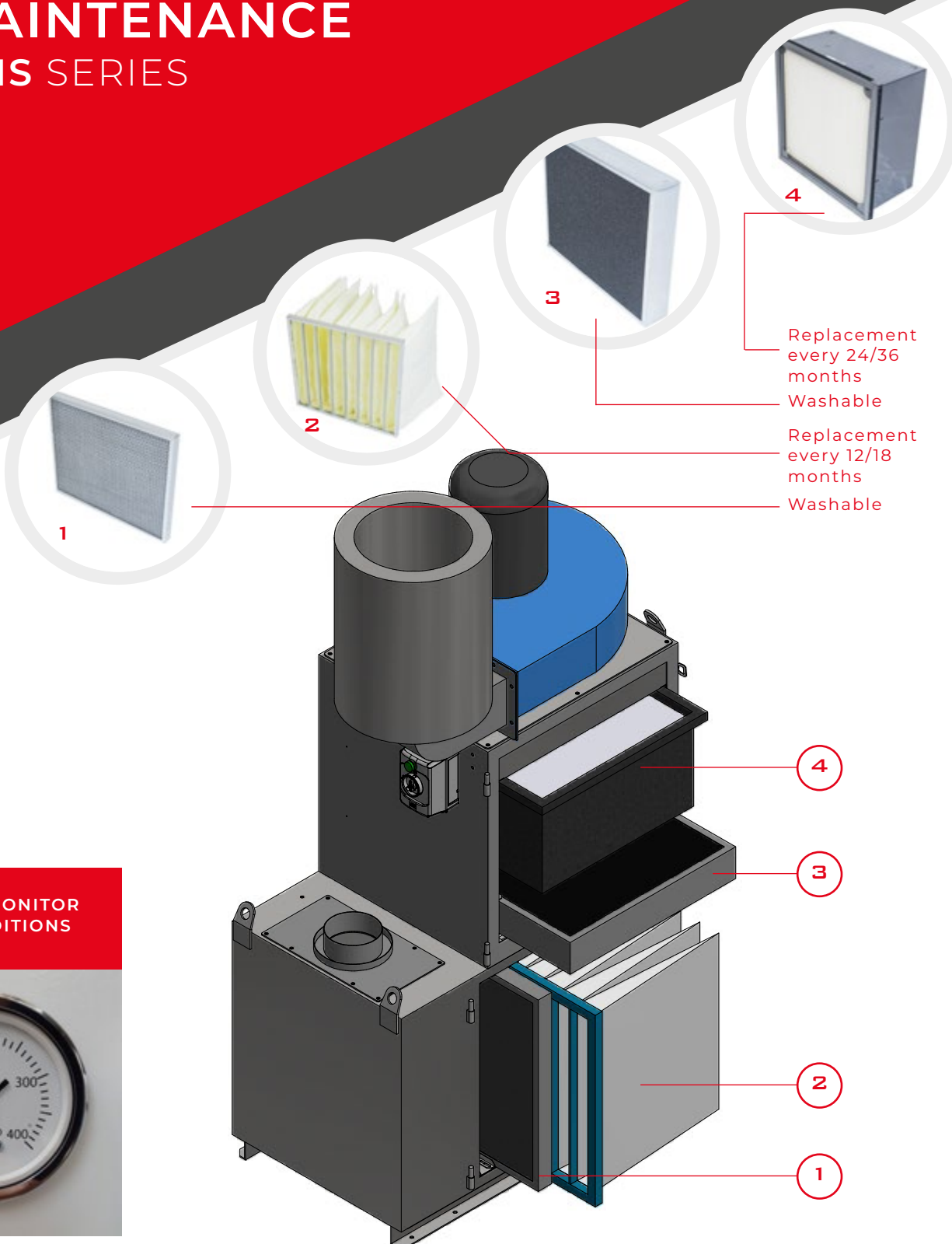
AR FILTRAZIONI S.R.L
Via dell' Industria 59/61
Bergamo BG 24126

+ 39 035 533822
web@arfiltrazioni.it

www.arfiltrazioni.com
www.mistcollector.com

MAINTENANCE

ARIS SERIES



DEVICE TO MONITOR
FILTER CONDITIONS



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.

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.

MIST COLLECTORS 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

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.



MIST COLLECTORS 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