



**TECHNICAL DATA**

**GOLDFILTER SERIES**

The GoldFilter series is ideal for the suction recovery of precious metals dust



**THE ULTIMATE SOLUTION**

To filter airy pollutants from precious metal processing, whilst enabling the recovery of precious metals.

SINCE  
**1995**

VISIT OUR WEB SITE  
[www.arfiltrazioni.com](http://www.arfiltrazioni.com)

STRONG POINTS

## GOLDFILTER

Precious metals  
recovery sack

CE

UNI 11304-3



Units tested  
according to  
EN: 1822  
D.d.u.o. 12772  
UNI 11304-3



With relevant test  
certificate  
for each unit



Recollection of  
Dust

At **AR Filtrazioni** we are producers of a new generation of mist collectors for the re-condensation and purification of every type of atmospheric pollutant generated during the machining processes of machine tools (machining centers, lathes, grinders, laser and washing machines, etc.), working up to three shifts.

## ADVANTAGES



- Easy and simple maintenance
- Robust mechanical parts
- Recovery of the re-condensed oil and precious materials
- Total compliance with Italian and European regulations
- Energy saving of 800.00€/year for each air cleaner
- Reduction of CO<sub>2</sub> emissions up to 9,000 kg/year
- Protection of sensitive machine tool parts
- Health-conscious and environment-friendly

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

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

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# WORKING PRINCIPLE

Suitable for extracting and cleaning dust generated during dry processing operations. Each air cleaner is equipped with a high-efficiency filter stage (EPA filter) according to the European standard EN 1822, suitable for the elimination of micro dust and smoke.

The GOLDFILTER series is particularly suitable for precious metal processing thanks to the bag for collecting and recovering aspirated dust. The GOLDFILTER series is equipped with a class IE3 motor with low energy consumption, an overload cutout switch and a differential pressure gauge.

## GOLDFILTER M

### X° PERFILTER

WITH DUST RECOLLECTING SACK

### 1° STAGE METALLIC FILTER

**PREFILTRATION CELL IN GALVANIZED STEEL**

European standards ISO EN 16890

Filtration efficiency > 95%

Particles with volume 3 µ

- Washable (12/18 months)
- Thanks to the robust metal frame with a safety net, it can stop any potential chip
- Its 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

**COALESCENCE EFFECT**

- Washable
- Diffusor
- Silencer

### 4° STAGE HEPA FILTER

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

European standards EN1822

Filtration efficiency up to 99.95%

Particles with volume  $\geq 0.15 / 0.3 \mu$

- Replacement every 24/36 months



**TECHNICAL DATA****EACH UNIT IS EQUIPPED WITH:**

- Low consumption motor **IE2 / IE3** class (ULCSA on request)
- **ABB / SIEMENS** overload cutout switch (ULCSA on request)
- Differential Pressure / Digital Filter Clogging Control Device
- Up to **HEPA H13** final filter, with very high filtration efficiency



**GOLD M2**  
2000 m<sup>3</sup>/h

**GOLD M3**  
3000 m<sup>3</sup>/h

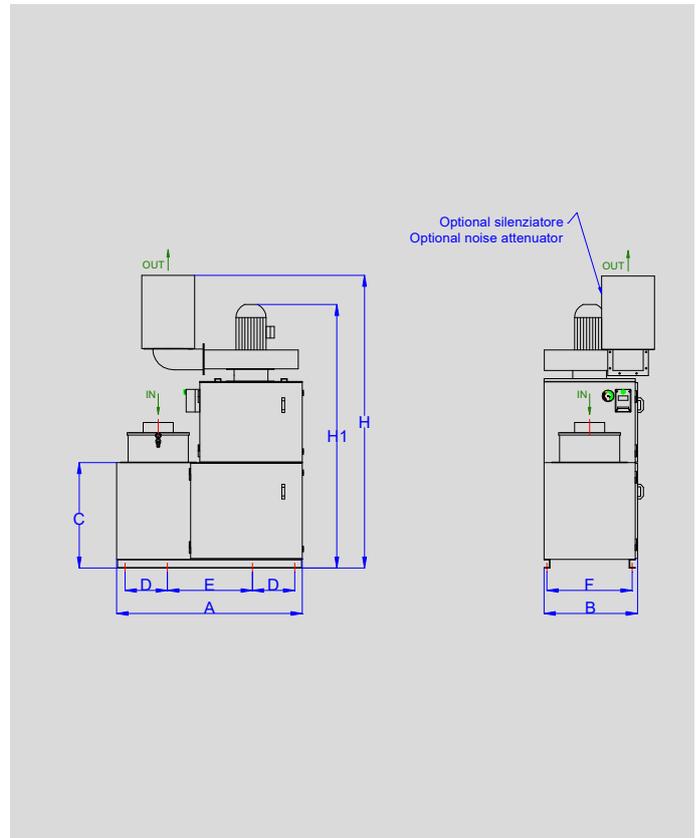
**SUITABILITY FOR POLLUTANTS**

• AIR FILTRATION WITH DUST SEPARATION AND RECOVERY

> **GOLDFILTER M SERIES**

| MODELL<br>GOLDFILTER | DWG. | SUCTION<br>INLET<br>Ømm | MAX.<br>AIR FLOW<br>M3/H | Pressure<br>mm/H <sub>2</sub> O | Power<br>kW | Tension<br>Frequence<br>V Hz | Noise<br>dB | Weight<br>Kg |
|----------------------|------|-------------------------|--------------------------|---------------------------------|-------------|------------------------------|-------------|--------------|
| GOLDFILTER M2        | 2289 | 150                     | 2000                     | 200                             | 1,5         | 230/380 50                   | 72'         | 205          |
| GOLDFILTER M3        | 2289 | 200                     | 3000                     | 230                             | 3           | 230/380 50                   | 76'         | 220          |

# TECHNICAL DATA



5

| MODEL         | A    | B   | C   | D  | H    | H1   | FIXING SPACINGS |     |     |
|---------------|------|-----|-----|----|------|------|-----------------|-----|-----|
|               |      |     |     |    |      |      | D               | E   | F   |
| GOLDFILTER M  | mm   | mm  | mm  | mm | mm   | mm   | mm              | mm  | mm  |
| GOLDFILTER M2 | 1230 | 625 | 720 | -  | 2020 | 1860 | 280             | 560 | 560 |
| GOLDFILTER M3 | 1230 | 625 | 720 | -  | 2130 | 1930 | 280             | 560 | 560 |

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

# OPTIONAL



## PRESSURE DIFFERENCE - DIGITAL MANOMETER

The digital manometer, which visually detects filter clogging, sends a signal to the machine tool prompting it to perform maintenance.

## BAG FOR COLLECTING PRECIOUS DUSTS

It retains precious metals so they can be fully recovered.



## ROUND SILENCER / ROUND SILENCER WITH OGIVE

For noise protection

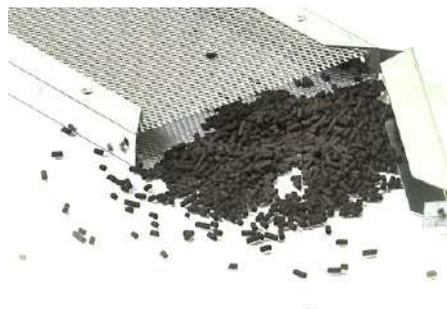
## HARTING OUTLET

It connects the filter unit directly to the PLC of the machine tool.



## SELF-ADJUSTING CONTROL OF THE REQUIRED AIR FLOW RATE, THROUGH INVERTER

AR FILTRAZIONI Technology



## ACTIVATED CARBON CELL

Activated carbon breaks down odors, fumes, VOCs and formaldehyde

## R&D OFFICE

In addition, AR Filtrazioni 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 the machining processes of machine tools.

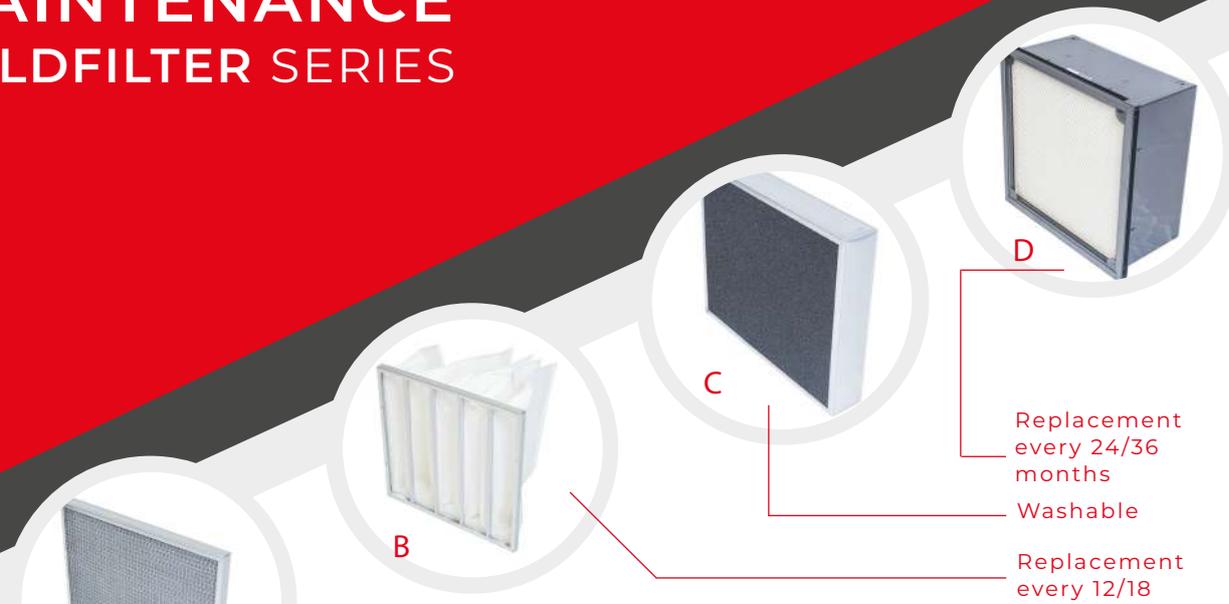
All series of mist collectors and accessories have a "Made in Italy" certificate.

# INSTALLATION

At **AR Filtrazioni** we always offer turn-key solutions, installing the filters at the customer's premises thanks to our specialized personnel. Otherwise, we leave complete autonomy to the customer: each system comes complete with an installation kit and an instruction manual, which make the installation of our filter units incredibly intuitive all over the world .



# MAINTENANCE GOLDFILTER SERIES



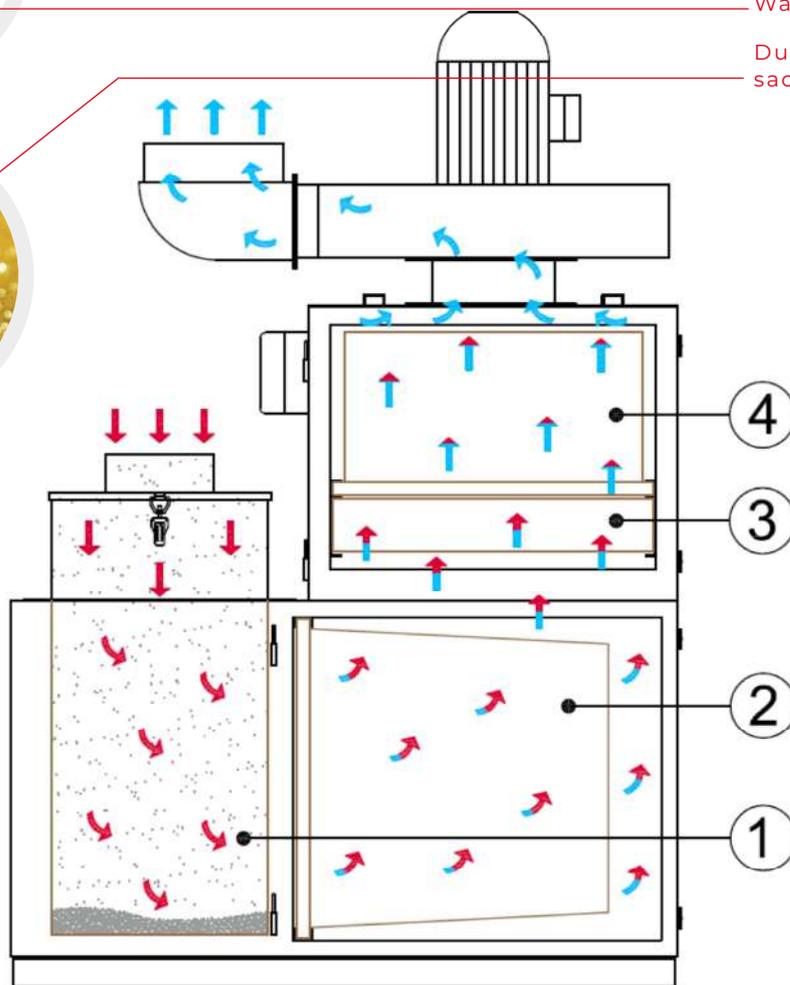
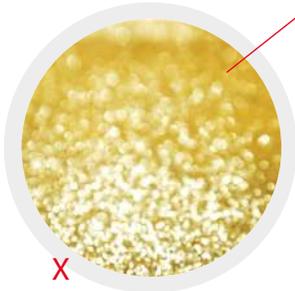
Replacement every 24/36 months

Washable

Replacement every 12/18 months

Washable

Dust recovery sack



**REPLACE / CLEAN SPARE FILTERS**  
when the red LED light turns on



This **maintenance program** shows average times, resulting from statistics elaborated on the basis of the thousands of systems that **AR Filtrazioni** maintains annually.

# REGULATIONS



EN 1822 - ISO 29463

UNI 11304-3

D.d.u.o. n.12772

- **UNI 11304-3:** Filtration units for oil mist, to be treated with a machine-mounted filter for the re-introduction of the air inside of the workplace
- 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 99.95% of particles with  $0.15 / 0.3 \mu$  volume (micro-mists, micro-dusts, fume)
- Device to monitor filter conditions
- Overload cutout switch (in accordance with CE standards)
- Test certificate for each unit

## HEPA FILTER UP TO H13 EN

### 1822

Very high efficiency filter

Filtration efficiency up to 99.95% of particles with volume  $\geq 0.15\mu$  (micro-particles)




99.95%

## REFERRING TO THE ITALIAN EFFECTIVE RULES:



The **GOLDFILTER** 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<br>(mg/m <sup>3</sup> ) | Reference levels<br>(TLV/TWA) (mg/m <sup>3</sup> ) |
|------------------------|---|--|
| Mineral oil / oil mist | 0,04                                      | 5  |

Room temperature 18.5°C

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 HEPA filter) placed to control an automatic lathe for machining the bar in AVP with neat oil coolant.

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## VALUE

Forty-year-long  
know-how

Free consultancy

Free of charge, technical  
inspection and analysis

Sales and Assistance with  
non-binding quotation

After-sales  
Assistance

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 time:** 4 to 6 weeks
- **State-of-the-art technology** is not enough for AR FILTRAZIONI: the service capability and the proximity to our customers guarantee an optimal and technically sophisticated solution, even for special customer needs.
- **Test:** Do you have an important investment to make? Put one of our systems to the test! We offer a money back guarantee

- 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 study of the most suitable system for your needs.
- Outsourcing maintenance. We carry it out and we are responsible! We release a maintenance certificate with legal value for each one of our units.
- Do you use non-original spare parts for your mist collectors? Do not lose the guarantee on the air cleaner and the filtering efficiency. Contact us and find out how to save money.



## REFERENCES

Some customers who chose AR Filtrazioni mist collectors



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Member of CISQ Federation



CERTIFIED MANAGEMENT SYSTEM  
ISO 9001



[www.mistcollector.com](http://www.mistcollector.com)

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