



## TECHNICAL DATA ARIS SERIES

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



### THE ULTIMATE SOLUTION

For the filtration of oil mist in metalworking workshops

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

SINCE  
**1995**

# STRONG POINTS

# ARIS SERIES

Powerful!  
Up to 6,000 m<sup>3</sup>/h  
Up to 3,560 CFM



UNI 11304-3



100%

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

100%

With relevant test certificate for each unit

100%

Suitable for centralised systems

100%

Heavy duty production

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, once a year; high operational reliability
- Robust mechanical parts
- Recovery of 80% of the re-condensed oil
- 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, for each air cleaner
- Protection of sensitive machine tool parts
- Health-conscious and environment-friendly

# WORKING PRINCIPLE

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

Thanks to its modularity, each air cleaner is equipped with a stage of High (EPA) or Very high (HEPA) filtration efficiency, tested in compliance with the European norm EN 1822 for holding micro-mist, micro-dust and smoke.

A drainage pipe allows the recovery of re-condensed coolant. On request: carbon cell for exhalation and odours, BSA version with articulated support arm.

## ARIS M/L

### 1°STAGE METALLIC FILTER

#### PREFILTRATION CELL IN GALVANIZED STEEL

European standards ISO EN 16890

Filtration efficiency > 95%

Particles with volume 3  $\mu$

- Washable (12/18 months)
- Hold any chips, thanks to a robust metal frame with safety net
- 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  $\mu$

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

### 3°STAGE COALESCENCE FILTER

#### BLACK PANEL FILTER BY COALESCENCE EFFECT

- Washable
- Diffusor
- Silencer

### 4°STAGE HEPA FILTER

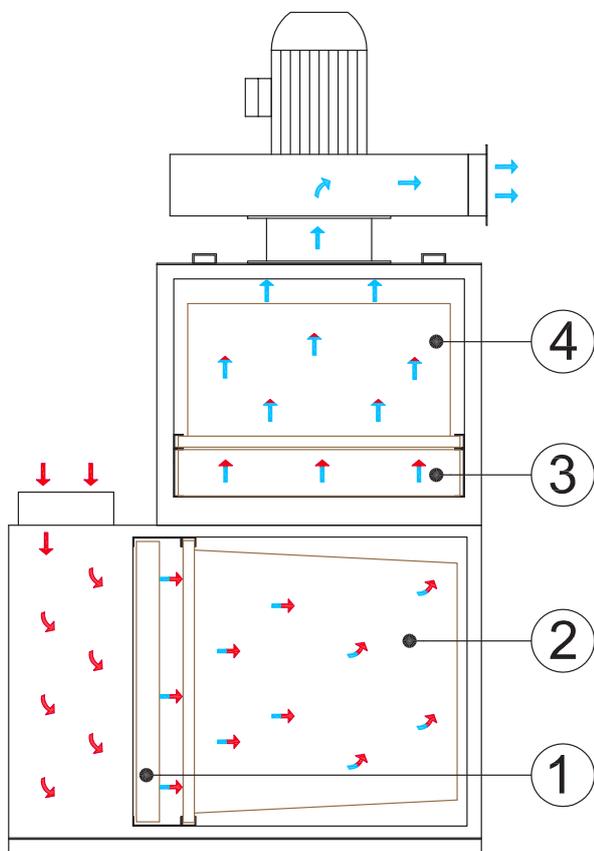
#### FINAL FILTRATION WITH HIGH (EPA) or VERY HIGH (HEPA) EFFICIENCY

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 **IE3** class (ULCSA on request)
- **ABB / SIEMENS** (ULCSA on request) overload cutout switch
- Filter clogging detector; analogue/digital pressure gauge
- Drainage tube for the recovery of re-condensed coolant
- Up to **HEPA H13** final filter, with very high filtration efficiency



ARIS M

**M2**  
2000 m<sup>3</sup>/h  
1200 CFM

**M3**  
3000 m<sup>3</sup>/h  
1770 CFM

**M4**  
4000 m<sup>3</sup>/h  
2360 CFM



ARIS L

**L4**  
4000 m<sup>3</sup>/h  
2360 CFM

**L6**  
6000 m<sup>3</sup>/h  
3560 CFM

MODEL ARIS	SUCTION INLET Ømm	MAX. AIRFLOW m <sup>3</sup> /h - CFM		HEAD mm/h <sub>2</sub> 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.

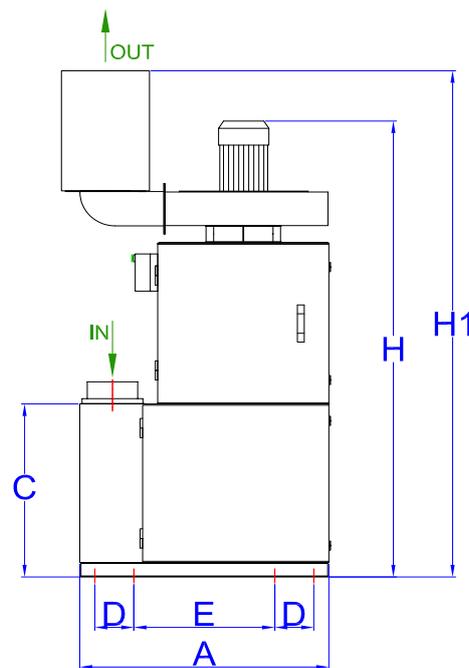
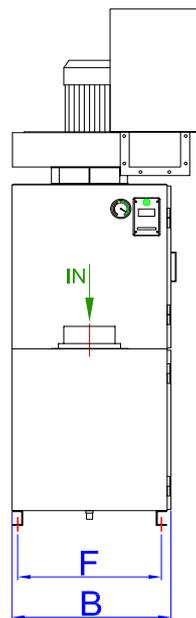
MIST COLLECTORS OF OIL MIST, FUME AND DUST FOR MACHINE TOOLS

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

## TECHNICAL DATA



DIMENSIONS mm	MODEL	A	B	C	H	H1	D	E	F
	ARIS	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	1020	850	2160	2330	115	560	950
	L6	1100	1020	850	2250	2400	115	560	950

\* = with noise attenuator.

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



## DIGITAL FILTER CLOGGING CONTROL DEVICE

As an alternative to the analog pressure gauge, our digital pressure gauge sends a signal to the machine tool, alerting you to do maintenance.



## STAINLESS STEEL

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

## HARTING PLUG

It connects the mist collector 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

It eliminates odours, fume, VOCs and formaldehyde.

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

AR FILTRAZIONI Technology



## R&amp;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.

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.

**The ARIS series is optimal for semi-centralised industrial filtration solutions**



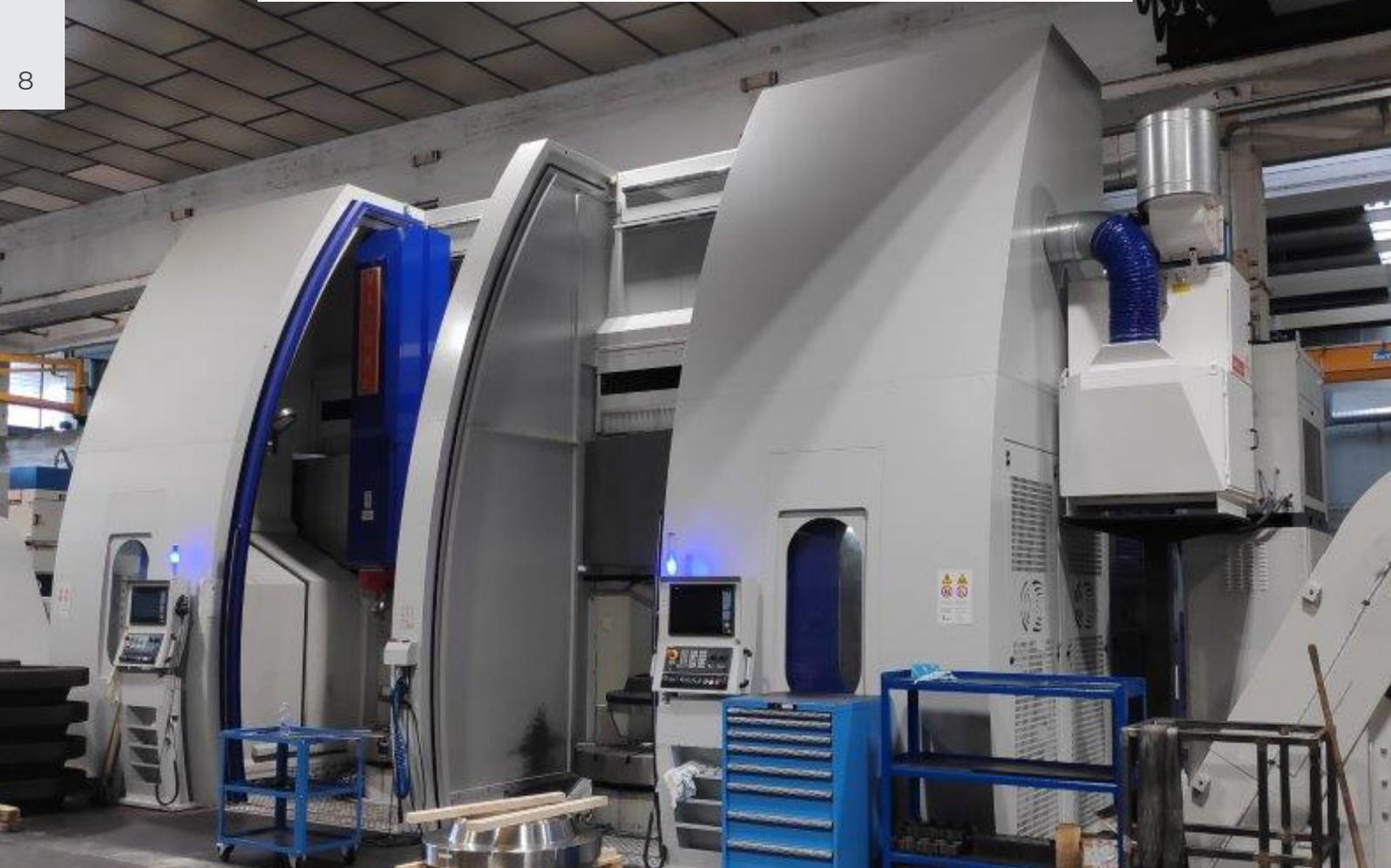
ARIS Series installation on a boring-and-milling machine





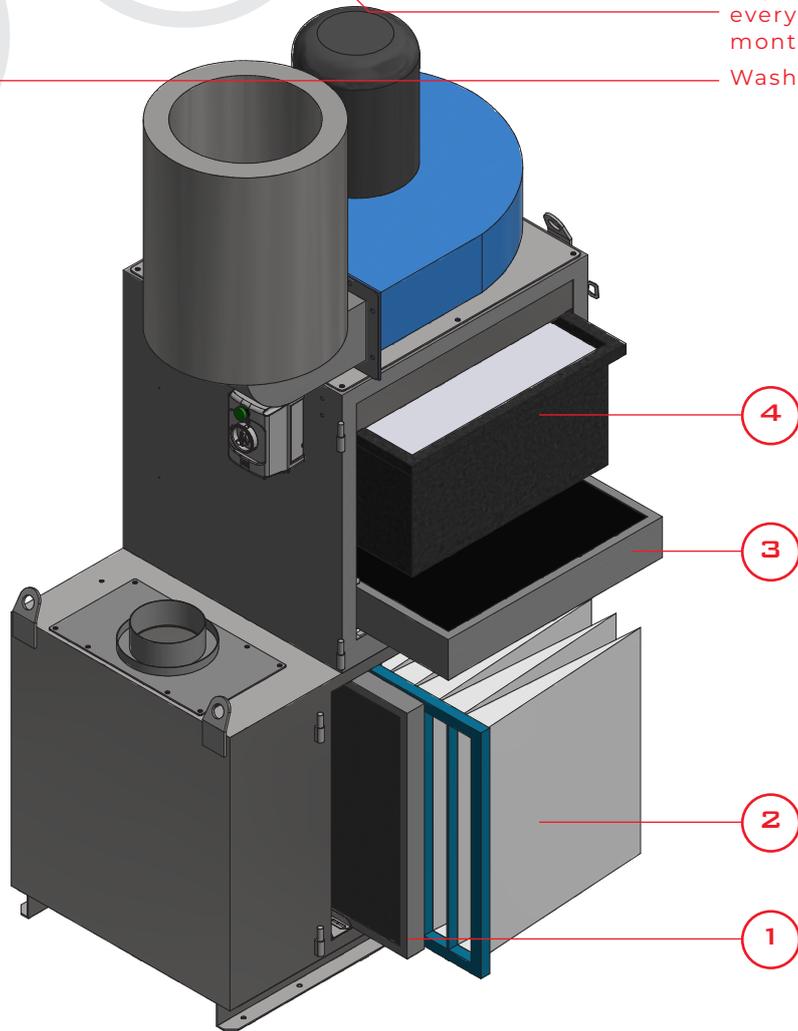
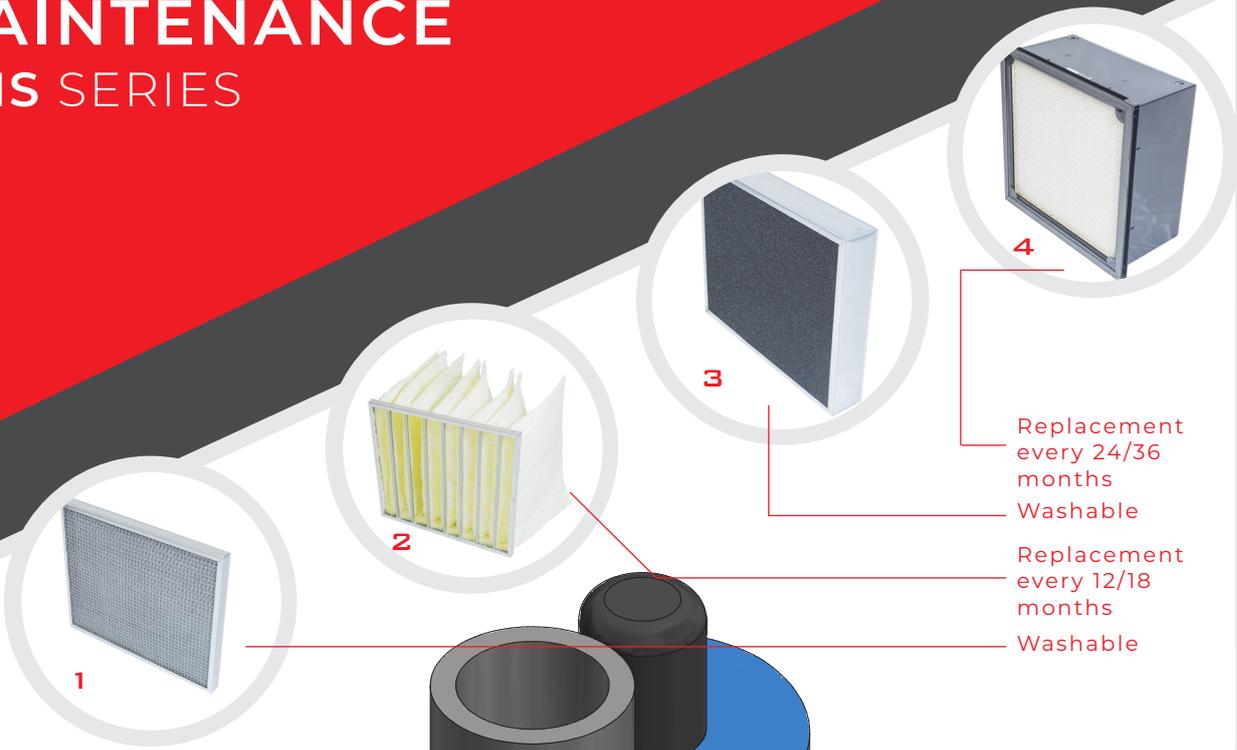
Oil mist treatment for VISUAL vertical turning machines

8



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

# MAINTENANCE ARIS SERIES



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



This **maintenance program** 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 - ISO 29463

UNI 11304-3

D.d.u.o. n.12772

- **UNI 11304-3:** Filtration units for oil mist, to be treated with a machinemounted 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  $\geq 0.15/0.3 \mu$  (micro-particles)



99.95%

## REFERRING TO THE ITALIAN EFFECTIVE RULES:



The **ARIS** 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 <sup>3</sup> )	Reference levels (TLV/TWA) (mg/m <sup>3</sup> )
Mineral oil / oil mist	0.04	5
Room temperature 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-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:** 2 to 4 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



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 ITALY



+39 035 533822



web@arfiltrazioni.it

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

Member of CISQ Federation



CERTIFIED MANAGEMENT SYSTEM  
ISO 9001



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

[www.nebbieoleose.it](http://www.nebbieoleose.it)

[www.luftreinigerfueroelnebel.de](http://www.luftreinigerfueroelnebel.de)