

AR FILTRAZIONI®

AIR CLEANERS for **OIL MIST, SMOKE** and **DUST**
on **MACHINE TOOLS**

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Thirty-year professional experience in this field

AR FILTRAZIONI designs and produces

8 STANDARD SERIES OF AIR CLEANERS

suitable for the removal at the source of **oil mist, smoke, dust on high-duty production machine tools working on 3 shifts.**

They are essential to protect operators' health and to maximise the overall lifespan of the machine tools.

Converting machine tools into ecological and non-polluting ones

has always been the main aim and the basis of

AR FILTRAZIONI's mission and work

even more so in a world context which is more and more sensitive to the environmental issue.

Easy, quick and low maintenance.

Visual monitoring of filter conditions.

Minimum or no machine downtimes.

Energy saving.

Good quality/price ratio.

Absolute final filtration HEPA FILTERS up to H13. Test EN 1822.

PRODUCTS

Pollutants: OIL MIST – SMOKE - DUST

**High-duty
production
machine tools
working on
three shifts**

ARNO SERIES

**Residual concentration
of pollutants at unit
exhaust < 0,1 Mg/m3.**

EMULSIFIED OIL MIST – SMOKE - DUST

Airflow rate Mc/h	Noise level dB
1400	68
1700	68
2700	72
3300	72
4000	72

STRAIGHT OIL MIST MINIMAL OIL MIST SMOKE

Airflow rate Mc/h	Noise level dB
1000	67
1400	68
1500	67
1700	68
2600	70
2700	72
3100	72
3300	72
4000	72

ECO SERIES

EMULSIFIED AND STRAIGHT OIL MIST SMOKE - DUST

Airflow rate Mc/h	Noise level dB
500	67
750	67



PRODUCTS

Pollutants: DUST – MICRODUST – SMOKE – FUMES - ODOURS

ARPX SERIES

ARF SERIES

ART SERIES

DRY AND MOIST DUST		<u>CA VERSION</u> SMOKE – FUMES ODOURS		MICRODUST SMOKE – FUMES ODOURS		DRY DUST	
Airflow rate Mc/h	Noise Level dB	Airflow rate Mc/h	Noise Level dB	Airflow rate Mc/h	Noise Level dB	Airflow rate Mc/h	Noise Level dB
2400	72	2000	70	700	65	700	65
3200	74	3000	72			1200	67
						2400	72

AE VERSION MICROMIST MICRODUST- SMOKE

Airflow rate Mc/h	Noise Level dB
2400	72
3200	74



PRODUCTS

Semi-centralized systems for OIL MIST - SMOKE - DUST

AR1148 SERIES

AR1415 SERIES

SMOKE - DUST

**STRIGHT/EMULSIFIED OIL MIST
SMOKE - DUST**



Airflow rate
Mc/h

Noise level
dB

2600

72

4200

72



Airflow rate
Mc/h

Noise level
dB

2600

72

4200

72

ARNO V Basic Series



4TH STAGE
FINAL FILTRATION

3RD STAGE
FILTRATION BY COALESCENCE

2ND STAGE
PRE-FILTRATION WITH WASHABLE FILTER

1ST STAGE
SELF-CLEANING CENTRIFUGAL
RECONDENSER

STANDARD PRE-ARRANGEMENTS

THE UNIT CAN BE EQUIPPED WITH A 5th STAGE OF FILTRATION
(ABSOLUTE FINAL FILTRATION) → ARNO VF

ARNO VF Series with Absolute Final Filtration

Visual Monitoring of Filter Conditions



5TH STAGE

ABSOLUTE FINAL FILTRATION
HEPA FILTER up to H13 - EN 1822

4TH STAGE

FINAL FILTRATION

3RD STAGE

FILTRATION BY COALESCENCE

2ND STAGE

PRE-FILTRATION WITH WASHABLE FILTER

1ST STAGE

SELF-CLEANING CENTRIFUGAL
RECONDENSER

ARNO VPF Series with Pre-Filtration System

Visual Monitoring of Filter Conditions



6TH STAGE

ABSOLUTE FINAL FILTRATION
HEPA FILTER up to H13 - EN 1822

5TH STAGE

FINAL FILTRATION

4RD STAGE

FILTRATION BY COALESCENCE

3ND STAGE

PRE-FILTRATION WITH WASHABLE FILTER

2ST STAGE

SELF-CLEANING CENTRIFUGAL
RECONDENSER

1TH STAGE

PRE-FILTRATION

Situated beneath the air cleaner.

It is suitable for the pre-filtration of large amounts of liquid pollutants, dust and chips

ANALYSIS OF THE RESULTS ACHIEVED



A healthy working environment, with clean air.



MAKINO Machining centres

"With AR Filtrazioni air cleaners our working environment has been purified;

the pictures published show the degree of cleanliness of our plant. The comparative tests with other brands have demonstrated that only AR Filtrazioni air cleaners remove that deposit of oil that sediments everywhere and that once on the floor creates safety problems for the operators."

Quoted **from an interview released by** Mr. Betto,
Technical Manager of TMB BETTO SpA - Monselice PD

"TECNOLOGIE MECCANICHE" Magazine
June 06

ANALYSIS OF THE RESULTS ACHIEVED

Stoutness Reliability Efficiency



MAZAK Machining centres

Quoted **from an interview released by** Eng. Chiozzi, Production Manager of BETTINELLI SpA - Bagnolo Cremasco CR

**"MACCHINE UTENSILI" Magazine
October 06**

*"We started installing AR Filtrazioni air cleaners in some production areas with the assistance of external certified laboratories for the analysis of the emissions. **The absolutely positive results have persuaded us to install these filtering units on all of our machine tools.***

*We have received a complete service. We have since obtained the purification of all the working environment, that has always given us problems. **The air-conditioning system needs, especially during the summer months, air cleaners with high performances.**"*

ANALYSIS OF THE RESULTS ACHIEVED

Stoutness Reliability Efficiency



During the past 25th BIMU in Milan, nineteen amongst Machine Tool Manufacturers and Distributors equipped their machine tools with AR Filtrazioni Air Cleaners.



Our applications on MCM Machining Centres



Our applications on CHIRON Machining Centres



Our applications on Machining Centres

MORI SEIKI ENSHU FANUC MAZAK KITAMURA



Our applications on LATHES BIGLIA - DAEWOO - MAZAK - TORNOS



Our applications on Grinders FAVRETTO - OFFICINE MONZESI - STUDER - TACHELLA - VIOTTO





KYOTO PROTOCOL HEALTH & SAFETY REGULATIONS

The use of a new generation of air cleaners on your machine tools

GUARANTEES

- the protection of our habitat
- a healthy working environment
- the maximum efficiency and lifespan of the machine tool
- high economical saving

KYOTO PROTOCOL HEALTH & SAFETY REGULATIONS



ANALYSIS OF THE RESULTS ACHIEVED

Available on request a copy of the report:



“Analysis on the abatement of oil mist”

Object of the analysis:

- AR Filtrazioni air cleaner
installed on a MCM machining centre,
- after 7 months of continuous work
(24 hours a day, 7 days a week)

the concentration of pollutants at unit exhaust was **less than 0.1 mg/m³**

This analysis was carried out by an independent certified laboratory.

TRADE FAIR CALENDAR

2008

BIEMH

Bilbao - SPAIN

03-08 MARCH 2008

SIMODEC

Haute Savoie - FRANCE

04-08 MARCH 2008

METAV 2008

Düsseldorf - GERMANY

31 MARCH - 4 APRIL 2008

MEC-SPE 2008

Parma - ITALY

03-05 APRIL 2008

BIMU 2008

Milano - ITALY

03-07 OCTOBER 2008