



TECHNICAL SHEET  
SUCTION WORK DESKS  
AND CABINS  
FOR BLOWING AND  
DEBURRING EQUIPPED  
WITH AIR CLEANERS



**THE ULTIMATE SOLUTION**

to the pollutants generated by manual blowing and deburring operations in metalworking workshops.

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

SINCE  
**1995**



# INDUSTRIAL SUCTION WORK DESKS FOR MANUAL BLOWING AND DEBURRING

Our cabins and workbenches with air suction suit all manual operations of blowing and deburring that get the working environment dirty and polluted.

With an ergonomic design, they guarantee a completely clean working environment by avoiding the dispersion of dust and chips in the workshop and on clean pieces. Each unit is equipped with a protective, transparent shield made of lexan (polycarbonate) to ensure the safety of the operator's face and of an LED lamp to light up the working area. In addition, each unit has an easily extractable drawer for the collection of oil and chips.

2 Our cabins and work desks are **soundproofed** to reduce the irritating whistling typical of blowing operations.

These units are equipped with a swarf pre-filtration stage and are compatible with the installation of ECO, ARNO, and ARPX air cleaners to **capture and purify the oil mist and dust generated during blowing and deburring procedures.**

Otherwise, the purification of oil mist can happen by directly connecting the cabin, or work desk, to the air cleaner already installed on the machine tool.



The work desks and cabins are designed to meet the needs of clients who require a clean workplace with total operator safety.

In the metalworking workshops of the automotive sector, the respect of all hygienic-sanitary norms inside and outside of the company, just like its image, is of paramount importance.

By ensuring an elevated quality standard and being designed on the basis of specific customers' needs, our air suctioning cabins and work desks allow operators to carry out all manual operations of deburring and blowing in an absolutely safe and ecological way.

## Cleaning/Blowing of parts with compressed air gun

During blowing, with the force of pressurized air, the micro-particles of oil and metal deposited on the workpiece are volatilized and consequently made dangerously inhalable.

The pollutants are thus nebulized into the atmosphere, while the chips could end up inside the containers with the already cleaned pieces, increasing the risk of rusting.

No less important is the effectiveness of the benches in solving the problem of oil deposit on the floor, which would otherwise be particularly slippery and represent a danger for the operators.

Metalworking workshops – especially lathe shops that work small parts with straight oil – that have been using a work desk for each one of their machine tools, have noticed a better logistical organization of their work and an increase in the quantities of recondensed oil gathered in the designated tank.

The recovery of recondensed oil is an important strength of the AR units dedicated to machines working with straight oil.

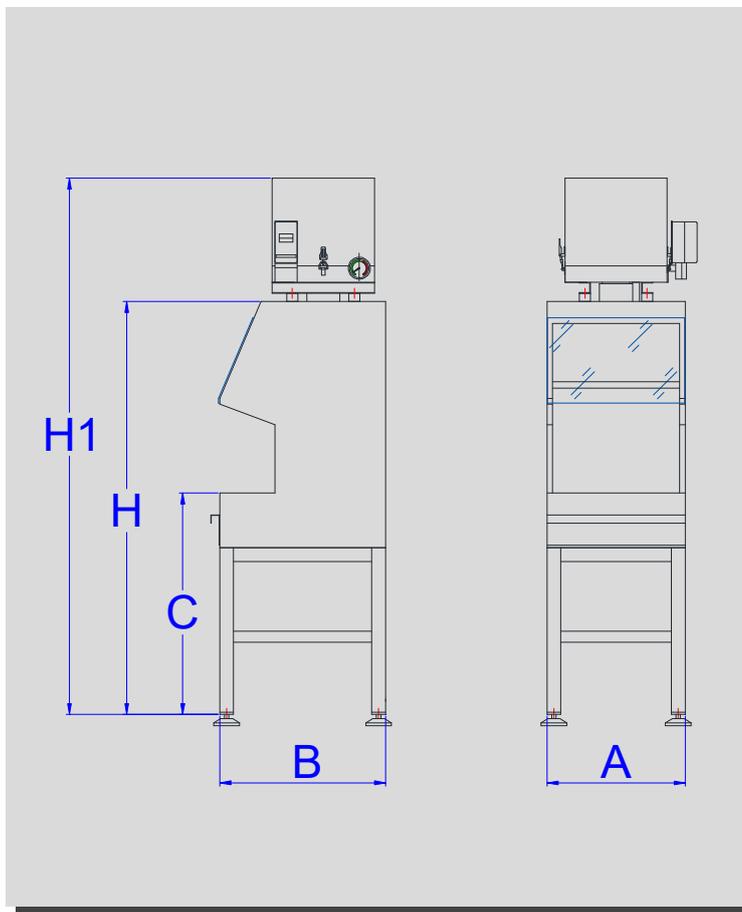


## TECHNICAL DATA AND DIMENSIONS mm

### CABINS 1620 - 3500

Suction cabins – draw. 1620 and 3500 – are equipped with leveling feet and suitable for the installation of the following mist collectors:

- ECO
- ECO TWO



DRAWING	SUCTION INLET Ømm	A mm	B mm	C mm	H mm	H1 mm
1620	100/120	500	600	850	1150	H1 + H Air cleaner high (see technical sheet attached)
3500	100/120	700	600	850	1750	

\* Leveling feet high excluded (+ 50mm)

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.



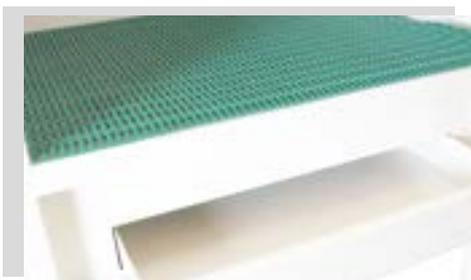
### Deburring of small parts with a pneumatic manual tool or small grinders

This type of operation not only creates big quantities of noxious dust, but they also pollute the workplace and get it dirty.

Furthermore, the presence of suspended aluminum or titanium particles represents a fire hazard. These materials are in fact known to be potentially flammable and explosive (see Hydrodesk).

With over 27 years of experience, AR Filtrazioni offers ultimate solutions to these problems.

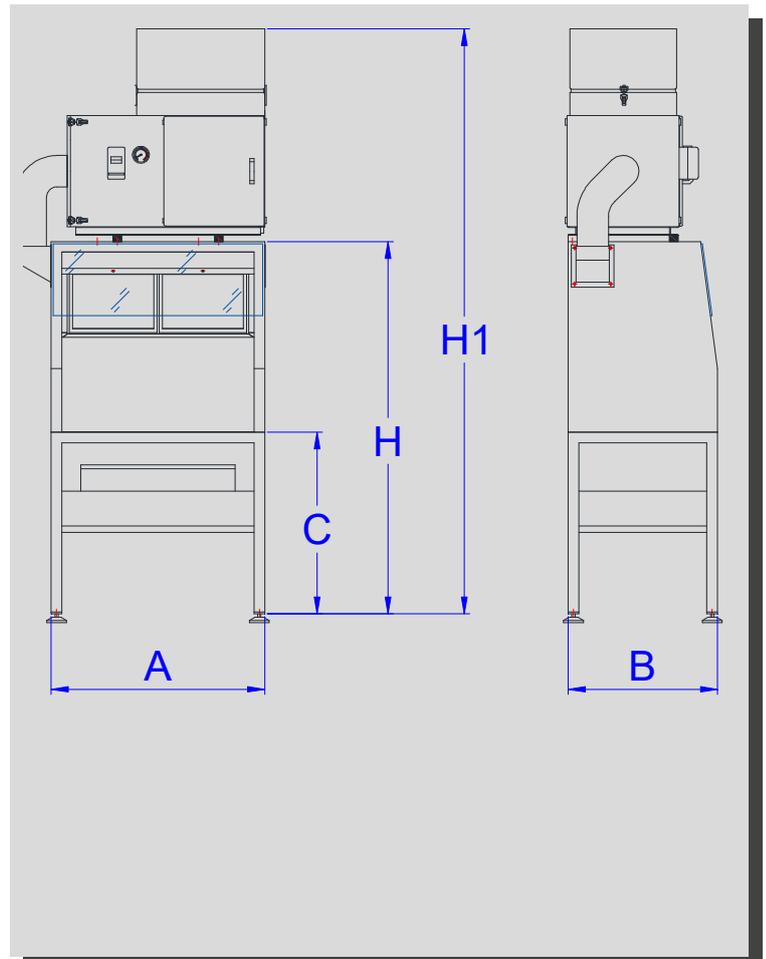
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**TECHNICAL DATA AND DIMENSIONS mm**
**CABINS 2838 - 3328**

Suction cabins – draw. 1620 and 3500 – are equipped with leveling feet and suitable for the installation of the following mist collectors:

- ARNO 1VF
- ARNO 2VF
- ARNO 3VF



DRAWING	SUCTION INLET Ømm	A mm	B mm	C mm	H mm	H1 mm
2838	150	1000	700	850	1750	H1 + H Air cleaner high (see technical sheet attached)
3328	150	850	700	850	1750	

\* Leveling feet high excluded (+ 50mm)

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SPECIAL WORK DESKS CREATED ON THE BASIS OF OUR CUSTOMER'S NEEDS

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# HYDRODESK

## WITH WORK DESK

DRY MANUAL DEBURRING

HAZARDOUS DUST ABATEMENT

The Hydrodesk series consists of a special work desk – where one can carry out dry manual deburring operations – together with an air cleaner of the Hydrofilter series.

The desk is equipped with a recirculating water circuit to prevent sparks and for the pre-demolition of dangerous airborne particulates, which are neutralized and filtered thanks to the Hydrofilter air cleaner.

## WORKING PRINCIPLE

### HYDRODESK

THANKS TO ITS WATER-CROSSED WALLS, THE HYDRODESK NEUTRALIZES SPARKS AND DEMOLISHES VOLATILE, POTENTIALLY EXPLOSIVE DUST, AVOIDING FIRES.

### HYDROFILTER

- X° WATERFALL
- 1° METALLIC FILTER
- 2° POCKET FILTER
- 3° COALESCENCE FILTER
- 4° HEPA FILTER



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

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HYDROFILTER AND HYDRODESK FOR DRY MANUAL MAGNESIUM DEBURRING OPERATIONS





# 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  $\geq 0.15/0.3 \mu$  (micro-particles)



### REFERRING TO THE ITALIAN EFFECTIVE RULES:

The **Suction Cabins and Work Desks** comply 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 (63.5 °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 HEPA filter placed to control an automatic lathe for the machining of the bar in AVP with straight oil.

## 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 of the customers who chose AR Filtrazioni mist collectors



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

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