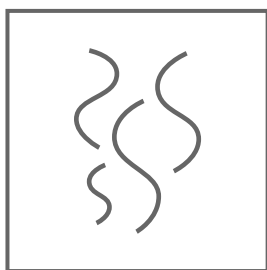


EN



INDUSTRIAL VACUUM CLEANERS



Fumes
Catalogue

italy * **vacuum**
GROUP



Technology, innovation at the highest level, and **good Italian design** as easily understood from the company name are the constitutional elements of the company's DNA.

Strengthened by the long and profound experience of its staff in the specific sector, the company produces **"customer-oriented" vacuum cleaners** that can adapt with flexibility to various needs.

It is placed on the world market as one of the few companies that can boast a series of products that make use of both **centrifugal fans** and powerful **side channel turbines**, thus, offering a very wide range of 360° product line, adaptable to any application sector, and usable in any work environment.



The corporate philosophy that animates Italyvacuum, does not accept downward compromises and adopts construction and design systems that are absolutely avant-garde in the sector, the result of precise mathematical calculations which together with the experience of its staff have guided the company towards precise purely technical choices such as:

- **Integrated cyclonic system with tangential inlet** of the aspirated material on all the models thus eliminating the maintenance of the filters. The first company in the world to offer this performance across the whole range;
- **Human-Machine-Interface with advanced “touch screen” technology** for optimizing and simplifying all the functions of the vacuum cleaner;
- **Dedicated software and advanced digital sensor system** for reading and signaling to the operator of the level of contamination of the filters;
- **Cleaning systems of filters in an exclusively automatic form** through special systems that when combined with each other ensure maximum efficiency over time.

Total remote supervision of production in real time



PATENTED



- **Technological and innovative antigrip fabrics** used for filtering surfaces, the result of extensive research in the textile sector;
- **Release of the containers in an extremely ergonomic form** thanks to the innovative and elegant vertical sliding slots obtained directly from the tubes that make up the frame;
- **New generation silencers with very high sound-absorbing performances** specially designed by the technicians of the R&D department that make Italyvacuum products the most silent vacuum cleaners in the sector;
- **Modular systems exclusively on wheels** that allow the assembly times to be zeroed, a rapid movement in the event of moving and positioning in any geometric shape in order to optimize each available space;
- **Centralized systems** equipped with sorting valves programmable via digital platform to **optimize performance and reduce energy consumption.**



TCS - Touch Control Station

Human Machine Interface

The powerful software station called **TCS** which manages the sophisticated electronics of which Italyvacuum vacuum cleaners are equipped, allows **remote management in "real time" of all the vacuum cleaners present** in a company.

Through this technology, it is possible to optimize their performance, carry out preventive maintenance if necessary and interface with the various management software already present in order to avoid any possible interruption of the production cycle.

Extremely intuitive and easily usable by anyone thanks to its icons, appears to be perfectly in line with all the mandatory requirements from the **industry 5.0 plan: interconnection and automation of production processes.**

Fumes Division

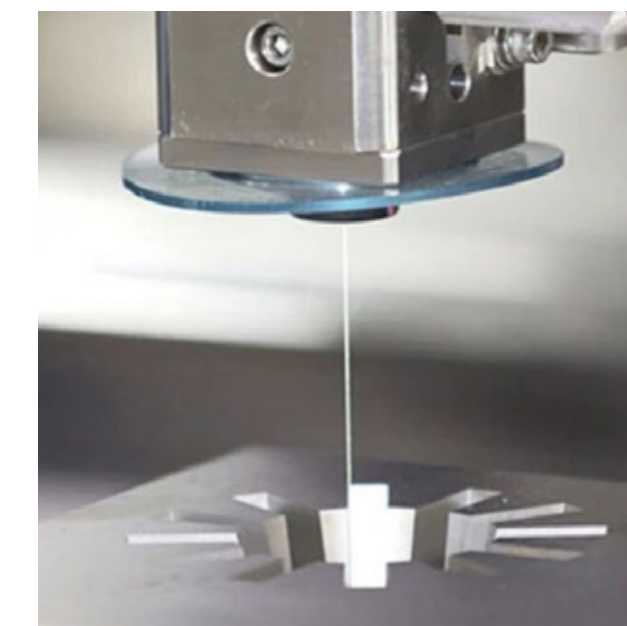
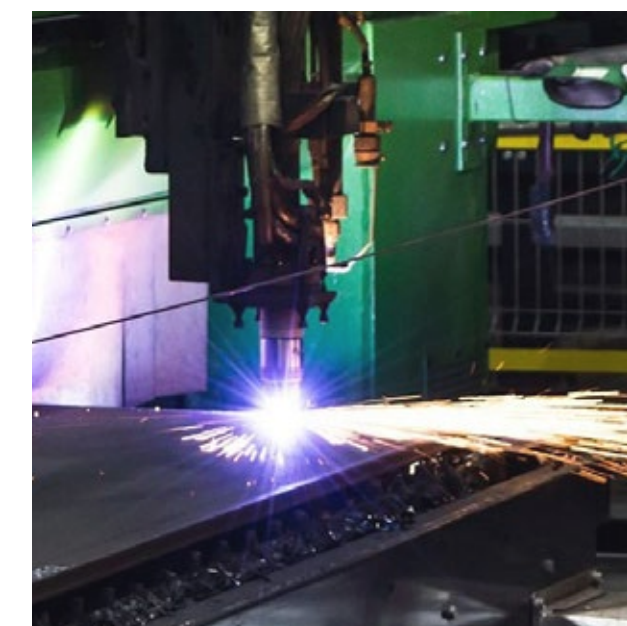
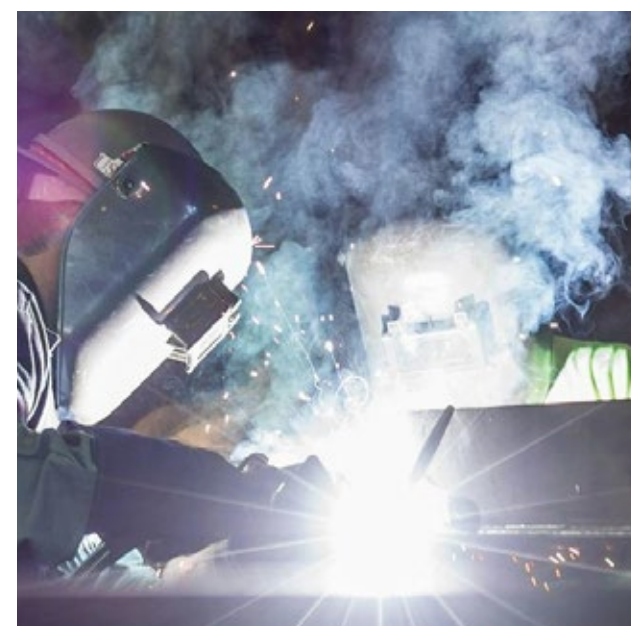


The experience of the Italyvacuum technicians has allowed the development of **a line of products specifically dedicated to the reduction of industrial fumes/smoke** coming from a wide variety of processes.

Owing it to the company's ability to provide some uncommon solutions, the Italyvacuum extractors, with their versatility, are able to **meet the needs of both small craftsmen and large industries**, offering through their range, a comprehensive 360° package tailored for every operator.

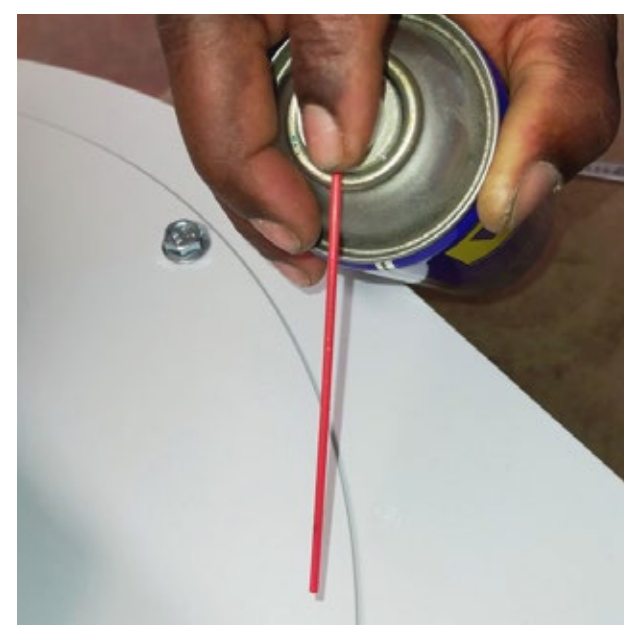


Fumes Division



Main applications:

- Welding
- Laser cutting
- Plasma cutting
- EDM
- Parts washing
- Vapors
- Gas
- Steelworks and foundries
- Industrial ovens
- Chemistry
- Shipyards
- Heat treatments for metals



CENTRALIZED SYSTEMS



These are the **systems with the highest technological content of the fume division** where Italyvacuum can express all its potential and in which it contains all its innovations; the result of years of experience lived all over the world.

The centralized systems are designed to **eliminate smoke and fumes** that come from the most diverse processes in order to **make the working environment as healthy as possible** while contributing to environmental protection.

UNISMOKE 48 [SA]



Expressly designed for the extraction of fumes, vapors and gases coming from the most varied manufacturing processes such as **welding, milling, washing of mechanical parts, laser cutting, plasma cutting**; Unismoke finds its use in various industrial environments.

It is also **available with a double collection arm** at the end to optimize space and costs and is also equipped with filters with high filtration power with **nano fiber and "flame retardant" technologies** representing the most technological state advanced on the market to ensure maximum yield in any situation.

GENERAL INFORMATION

Motors available	from 1.1kW (1.5hp) to 4kW (5.5hp) - Fan
N° inlet [Ø]	N°1 [100mm - 4" / 120mm - 5" / 160mm - 6"]
Container capacity	65 Lt (17gal)
Filtering group	3 stages + Hepa
Certification available	C.E. / UL-CSA / cURus

* Model available also in **ATEX version** and in **all global voltages and frequencies**

UNISMOKE 48 [DA]

Unismoke 48 is **also available with a double collection arm** in order to optimize space and costs.



UNICUBE



It is a model **designed for the fumes division** with the traditional cube shape, suitable for the extraction of fumes/vapors/gases from the most varied manufacturing processes such as: welding, milling, washing of mechanical parts, laser cutting, plasma cutting.

Thanks to its **omnidirectional articulated arm** (diameter 100 mm with a length of 3 meters in the standard model) it allows the collection of fumes directly at the source before they are dispersed into the air and manage to contaminate the surrounding area thus preserving the health of the assigned operator.

Among its accessories, can also be installed **activated carbon filters** in case they are required to eliminate bad smells that remain inside the building, or a remote control for switching on and off exclusively during its use in order to optimize energy consumption.

GENERAL INFORMATION

Motors available	from 1.1kW (1.5hp) to 4kW (5.5hp) - Fan
N° inlet [Ø]	N°1 [100mm - 4" / 150mm - 6"]
Filtering group	Polyester Cartridge
Certification available	C.E. / UL-CSA / cURus

* Model available also in **ATEX version** and in **all global voltages and frequencies**

SAFEWELD WF



SAFEWELD: Fume Extractor Fan with Articulating Arm and Hood

The SAFEWELD arm with hood and fume extractor fan is an essential device to ensure a **safe working environment** during welding operations and for extracting harmful fumes from similar processes. Designed with a focus on safety and efficiency, the SAFEWELD system offers a reliable solution to **protect operators and the surrounding environment from the harmful effects of welding fumes.**

GENERAL INFORMATION

Motors available	2.2kW (3hp) - Fan
Arm diameter [Ø]	150mm (6")
Arm length	3000mm (118")
Certification available	C.E. / UL-CSA / cURus

* Model available also in ATEX version and in all global voltages and frequencies

ECOSMOKE 5



It is a model **designed for the fumes division** with the traditional cube shape, suitable for the extraction of fumes/vapors/gases from the most varied manufacturing processes such as: welding, milling, washing of mechanical parts, laser cutting, plasma cutting.

The filtering system is extremely performant, consisting of a **slot system for inserting up to 5 different filters**, which makes the system highly flexible and effective for any type of pollutant it needs to extract.

This feature places the ecosmoke 5 at the top of its range in this product line, thanks to the extreme versatility of the system and the large filtering surfaces with **square filters measuring 595 x 595mm with activated carbon as standard** on every model.

GENERAL INFORMATION

Motors available	from 1.1kW (1.5hp) to 4kW (5.5hp) - Fan
N° inlet [Ø]	N°1 [100mm - 3.94" / 150mm - 5.90"]
Type of filter	N°5 modular slots with washable filters
Certification available	C.E. / UL-CSA / cURus

* Model available also in **ATEX version** and in **all global voltages and frequencies**

MAXI VORTEX SMOKE



Specifically designed for the extraction of fumes, vapors, and gases generated by various processing operations such as **welding, milling, mechanical parts washing, laser cutting, and plasma cutting**, it is used in a wide range of industrial environments.

Thanks to **its extremely flexible configuration and the 175-liter (46.25 gallons) container**, it can also be used for collecting chips and dust.

Moreover, as an alternative to the articulated arm with collection hood, Maxi Vortex Smoke is also **available with a simple spiral hose**.

GENERAL INFORMATION

Motors available	from 1.1kW (1.5hp) to 4kW (5.5hp) - Fan
N° inlet [Ø]	N°1 [100mm - 3.94" / 120mm - 4.72" / 160mm - 6.30"]
Container capacity	175 Lt (46gal)
Filtering group	3 stages + Hepa
Certification available	C.E. / UL-CSA / cURus

* Model available also in **ATEX version** and in **all global voltages and frequencies**

UNIVERSAL SMOKE



Specifically designed for the extraction of fumes, vapors, and gases generated by various processing operations such as **welding, milling, mechanical parts washing, laser cutting, and plasma cutting**, it is used in a wide range of industrial environments.

Thanks to its **extremely flexible configuration and the 110-liter (30 gallons) container**, it can also be used for, **collecting chips and dust**.

Moreover, as an alternative to the articulated arm with collection hood, Universal Smoke is also **available with a simple spiral hose**.

GENERAL INFORMATION

Motors available	from 1.1kW (1.5hp) to 4kW (5.5hp) - Fan
N° inlet [Ø]	N°1 [100mm - 3.94" / 120mm - 4.72" / 160mm - 6.30"]
Container capacity	110 Lt (30gal)
Filtering group	3 stages + Hepa
Certification available	C.E. / UL-CSA / cURus

* Model available also in **ATEX version** and in **all global voltages and frequencies**

COMPACT



Specifically designed for the extraction of fumes, vapors, and gases generated by various processing operations such as **welding, milling, mechanical parts washing, laser cutting, and plasma cutting**, it is used in a wide range of industrial environments.

Despite its **compact size**, the Compact model features a **75-liter (20 gallons) cyclonic chamber** and is **particularly suitable** for all applications requiring **precise extraction of generated fumes** and where **space is limited**.

GENERAL INFORMATION

Motors available	N°3 motors of 1.3kW (1.74hp) each
N° inlet [Ø]	N°1 [50mm - 1.96"]
Container capacity	75 Lt (20gal)
Filtering group	2 stages + Hepa
Certification available	C.E. / UL-CSA / cURus

* Model available also in **ATEX version** and in **all global voltages and frequencies**

POWER SMOKE



Expressly designed for the extraction of fumes, vapors, and gases generated by various processing operations such as **welding, milling, mechanical parts washing, laser cutting, and plasma cutting**, it is used in a wide range of industrial environments.

A large **cyclonic chamber** with a **capacity of 125 liters (33 gallons)** is among the main features of the Power Smoke model.

GENERAL INFORMATION

Motors available	up to N°3 motors of 1.3kW (1.74hp) each
N° inlet [Ø]	N°1 [100mm - 3.94"]
Container capacity	75 Lt (20gal)
Filtering group	2 stages + Hepa
Certification available	C.E. / UL-CSA / cURus

* Model available also in **ATEX version** and in **all global voltages and frequencies**

WORKBENCH

Italyvacuum produces a **series of suction benches of various types** and the model shown is just one of the **many available versions**.

They differ in size, outlet pipe connection (right or left), the pipe diameter is calculated based on the extractor it will be connected to, etc.



GENERAL INFORMATION

N° inlet [Ø]	N°1 [160mm - 6.3" / 200mm - 7.87"]
Certification available	C.E.
Available sizes	1000 x 1000mm (39.3" x 39.3") 2000 x 1000mm (78.7" x 39.3") 3000 x 1000mm (118.1" x 39.3") 1000 x 1500mm (39.3" x 59") 2000 x 1500mm (78.7" x 59") 3000 x 1500mm (118.1" x 59")

* Model available also in **ATEX version** and in **all global voltages and frequencies**

WORKBENCH FAN



The series of suction benches model Workbench Fan are designed to provide **strong suction across the entire workbench surface** due to a **powerful motor** inside the fully soundproofed structure.

Equipped with a **robust monolithic structure** they can be adapted to the countless sectors in which they are used.



GENERAL INFORMATION

Motors available	2.2kW (3hp) / 3kW (4hp) / 4kW (5hp)
Available sizes	2000 x 1000mm (78.7" x 39.3") 3000 x 1000mm (118.1" x 39.3") 2000 x 1500mm (78.7" x 59") 3000 x 1500mm (118.1" x 59")

* Model available also in **ATEX version** and in **all global voltages and frequencies**

WORKBENCH HOOD



The series of suction benches model Workbench Hood are designed to provide **strong suction across the entire workbench surface**.

Equipped with **folding partitions** sized to allow adequate capture velocity, they can be **adapted based on work requirements and the different sectors in which they are used**.

They can be connected to various types of extractors, both single and centralized, of different powers to exploit the maximum flexibility required.

GENERAL INFORMATION

Available sizes

1000 x 1000mm (39.3" x 39.3")
2000 x 1000mm (78.7" x 39.3")
3000 x 1000mm (118.1" x 39.3")
1000 x 1500mm (39.3" x 59")
2000 x 1500mm (78.7" x 59")
3000 x 1500mm (118.1" x 59")

* Model available also in **ATEX version** and in **all global voltages and frequencies**

ACCESSORIES



Antistatic



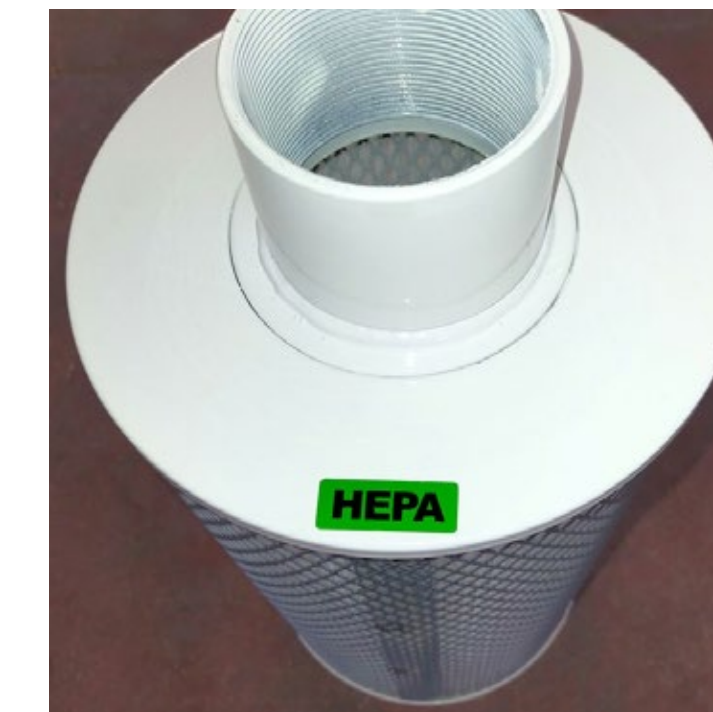
Remote start on/off



Additional arm



Activated carbon filters



HEPA filters



Automatic filter cleaning



Manual and automatic gates



TCS - Touch Control Station



Telescopic pipe support

+TECHNOLOGY

+SAVINGS

+EFFICIENCY

Italyvacuum uses only **high-efficiency** premium or super-premium **class motors** that drastically reduce energy consumption through responsible power management. These motors **not only outperform traditional motors** at the same power level, but also maintain high efficiency across varying loads, ensuring **optimal performance** under all operating conditions.

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