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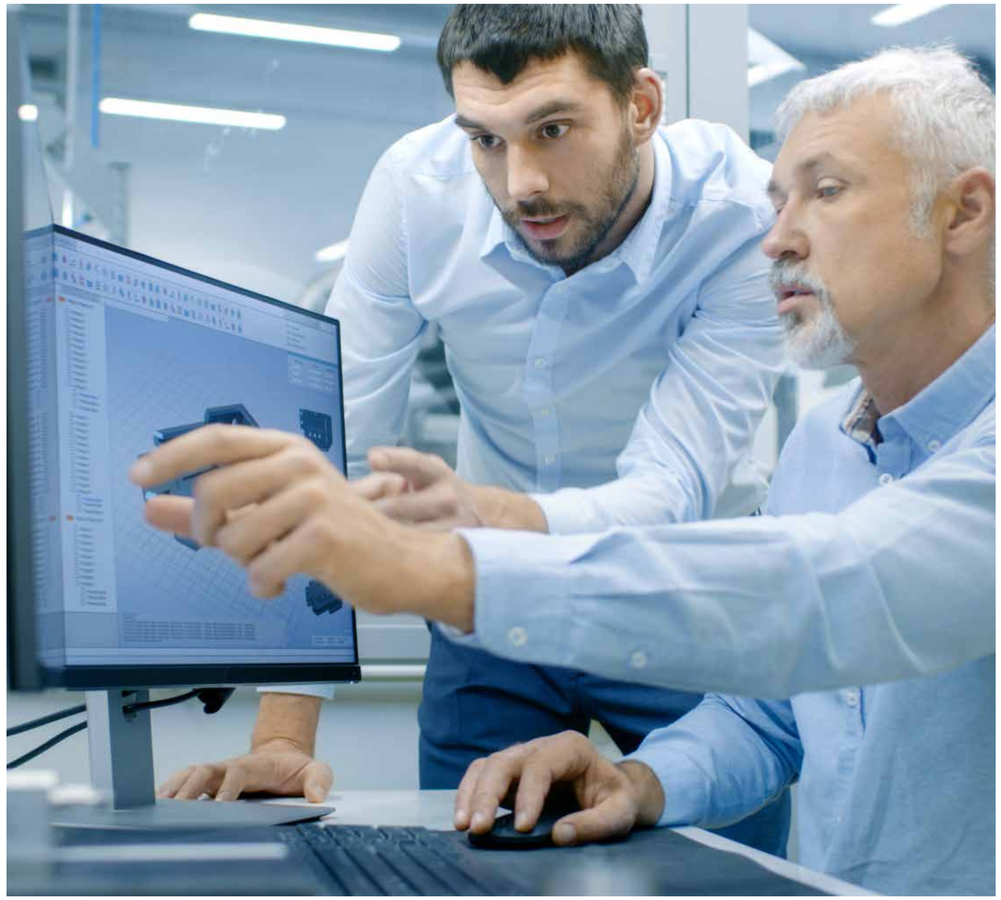
INDUSTRIAL VACUUM CLEANERS

Catalogue
Oil Mist

italy vacuum



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:

- **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;

Total remote supervision of production in real time

SMART INDUSTRY 4.0

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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 4.0 plan**: **interconnection and automation of production processes**.

Oil Mists
Division

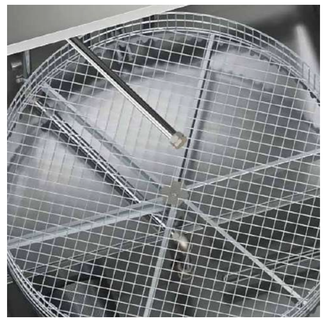
Total elimination of oil mists coming from saws and CNC cutting centers

The innovative Italyvacuum oil mist collectors are born from the need to eliminate oil mists, vapors, and fumes that come from the most varied processes in order **to make the work environment healthier**, while contributing to the **protection of the environment**.

Thanks to the many innovations in its interior, the product enjoys **European patent**. It is available in 6 different models and in all voltages and frequencies of the world market.

The whole range is also available in stainless steel for harmful vapors, corrosive mists or hazardous environments (Atex).

Oil Mists
Division



Main applications:

EDM
Milling
Cutting
Turning
Parts washing
Grinding
Finishing

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CENTRALIZED SYSTEMS

They are the systems with the highest technological content, where Italyvacuum technicians can express all its potential, and in which it contains the best of its innovations which is **the result of years of research** and the experiences lived over time in the various companies around the world.

All of the functions can be managed in the traditional way or through powerful centralized platform **TCS** “Touch control station” **- Smart industry 4.0**.

MASTER MIST

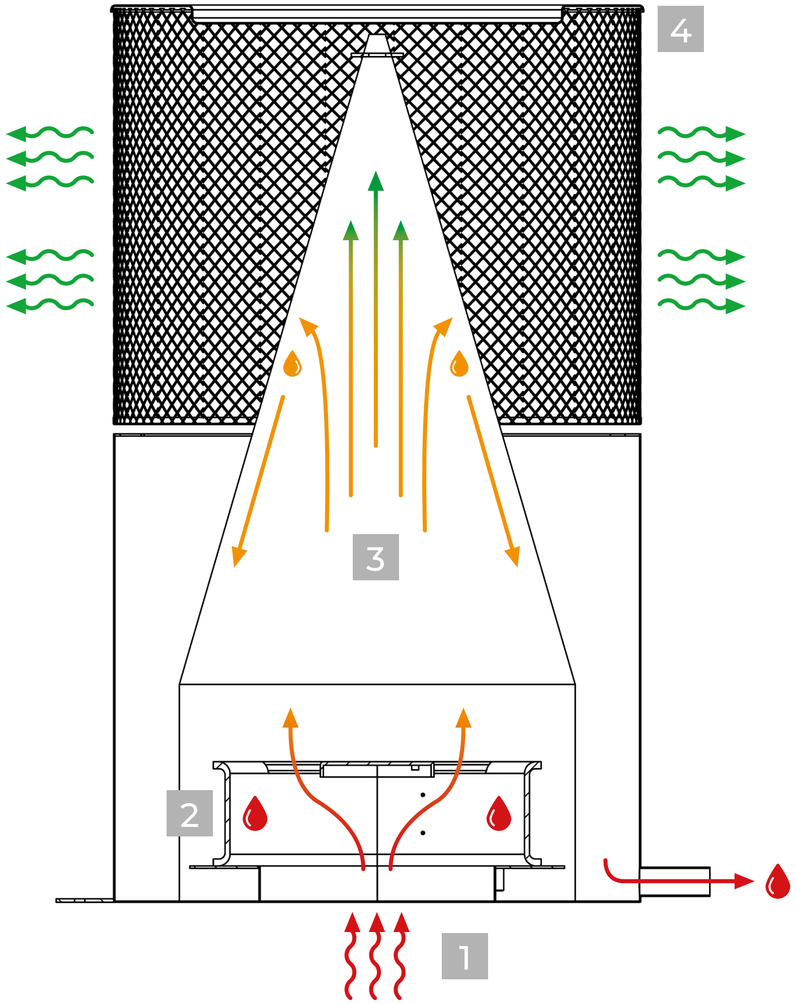
PATENTED

- A vacuum cleaner that is compatible for whatever type of oil mist
- A unique and revolutionary **conical filtration system** that allows the capture and complete recycling of the retained oil
- **Increased filtering surface** with consequent reduction of maintenance costs
- No type of pre-assembly to be performed on the filter unit
- General costs (electricity consumption + maintenance + spare parts + management time) incomparable with other types of similar filters

GENERAL INFORMATION	
Volume of filtered air	**maximum 1500m³ (882 cfm)**
Filtering group	**3 stages + Hepa**
Air inlet [Ø]	**100mm - 4” / 150mm - 6” / 200mm - 8”**
Certifications available	**C.E. / UL-CSA / cURus**

** Model available in **all global voltages and frequencies***

MASTER MIST



Principle of operation

In order to capture the oil mist, Italyvacuum technicians have developed a new system which includes **4 different filtration stages**:

1. The air enters the MASTERMIST where a first line metal grid filters any debris that are suctioned in during operation;

2. The blades of the powerful propeller creates coalescence effect by grouping together the micro drops of oil and drastically reduce their passage to the next stage;

3. A special conical-shaped multilayer net filter forces the micro-droplets of oil to hit against its mesh and descend along the oblique walls down to the collection base;

4. A very fine H13 or H14 HEPA filter is set as the final stage to filter at 99.95% of the residual air.

AERIAL SUPPORT

Based on the conformation and type of machine where our vacuum cleaners will be applied, **support elements** are available specifically designed for the **different types of application**.

In order to optimize their efficiency, simplify installation and make any other monitoring operation easier, the supports **can be both fixed and mobile**.

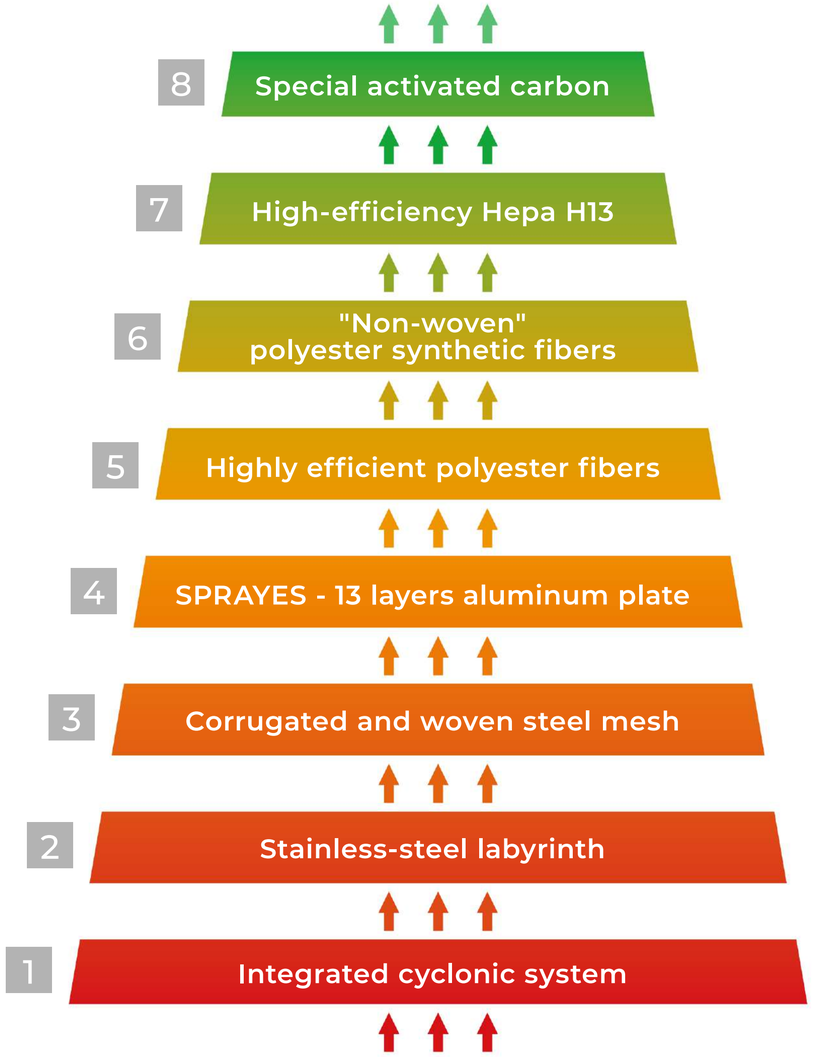
TECNOMIST

- The only collector oil mists collector that can include **up to 8 filtering stages**
- **Powerful integrated cyclonic system** capable of eliminating up to 95% of oil mists before the airflow reaches subsequent filters
- **Standard Hepa H13 filter on all models** to achieve 99.95% elimination of contaminating particles
- Collector is compatible with all types of emulsified or whole cutting fluids
- Filters also adaptable for smoke or fumes

GENERAL INFORMATION	
Volume of filtered air	**from 500m³ to 3300m³ (300 cfm to 2000 cfm)**
Power	**0,55 kW (0,75hp) / 1,1 kW (1,75hp) / 1,5 kW (2hp) / 2,2 kW (3hp)**
Air inlet [Ø]	**100mm - 4" / 150mm - 6"**
Certifications available	**C.E. / UL-CSA / cURus**

** Model available in **all global voltages and frequencies***

TECNOMIST



Filtration Group:

Stage 1 Powerful integrated cyclone capable of eliminating 95% of particles;

Stage 2 Washable stainless steel labyrinth filters to protect subsequent filters;

Stage 3 Washable metal mesh filter capable of trapping any metallic residues;

Stage 4 SPRAYES 13-layer washable aluminum filter that protects against flows of airborne substances containing grease;

Stage 5 Washable filter made of Polyester fibers with excellent drainage qualities;

Stage 6 Washable Polyester filter with thermally bonded fibers;

Stage 7 Hepa H13 filter for the elimination of micro particles at 99.95%;

Optional:

Stage 8 Activated carbon filter for the elimination of unpleasant odors.

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UNIVERSAL OIL

One of the best-selling models in the oil and mist division on the international market, thanks to its **high performance in terms of suction capacity** compared to its **small overall dimensions**.

The **standard integrated cyclonic system** on all models of the house is extremely interesting .

GENERAL INFORMATION	
Motors available	**from 2.2kW (3hp) to 12.5kW (17hp) - Turbine**
N° inlet [Ø]	**N°1 [100mm - 4"]**
Container capacity	**110 Lt (29gal)**
Certifications available	**C.E. / UL-CSA / cURus**

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

INTER OIL

Inter Oil is **an intermediate model in terms of size from the oil mist division** dedicated to the collection of oil and chips.

It represents the link between the smaller models and the larger ones, and among its many strengths, **it boasts a capacity of 110 liters**, which normally is integrated only in to the larger models.

GENERAL INFORMATION	
Motors available	**from 2.2kW (3hp) to 12.5kW (17.5hp)**
N° inlet [Ø]	**N°1 [100mm - 4"]**
Container capacity	**110 Lt (29gal)**
Certifications available	**C.E. / UL-CSA / cURus**

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

MASTER CLEAN OIL

It turns out to be **one of the most compact wheeled models in the oil mist division** and allows the operator a front view free of encumbrances even during its handling.

Expressly dedicated to cleaning machinery, it has been designed in a compact manner in order to achieve maximum maneuverability and ergonomics for the operator in charge.

It is particularly interesting **the standard integrated cyclonic system** on all models.

GENERAL INFORMATION	
Motors available	**from 1.1kW (1.5hp) to 4kW (5.5hp) - Turbine**
N° inlet [Ø]	**N°1 [70mm - 3"]**
Container capacity	**65 Lt (17gal)**
Certifications available	**C.E. / UL-CSA / cURus**

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

ACCESSORIES

Cleaning accessories

Antistatic

Remote start on/off

DCD - Digital Contamination Detector

Easy lift

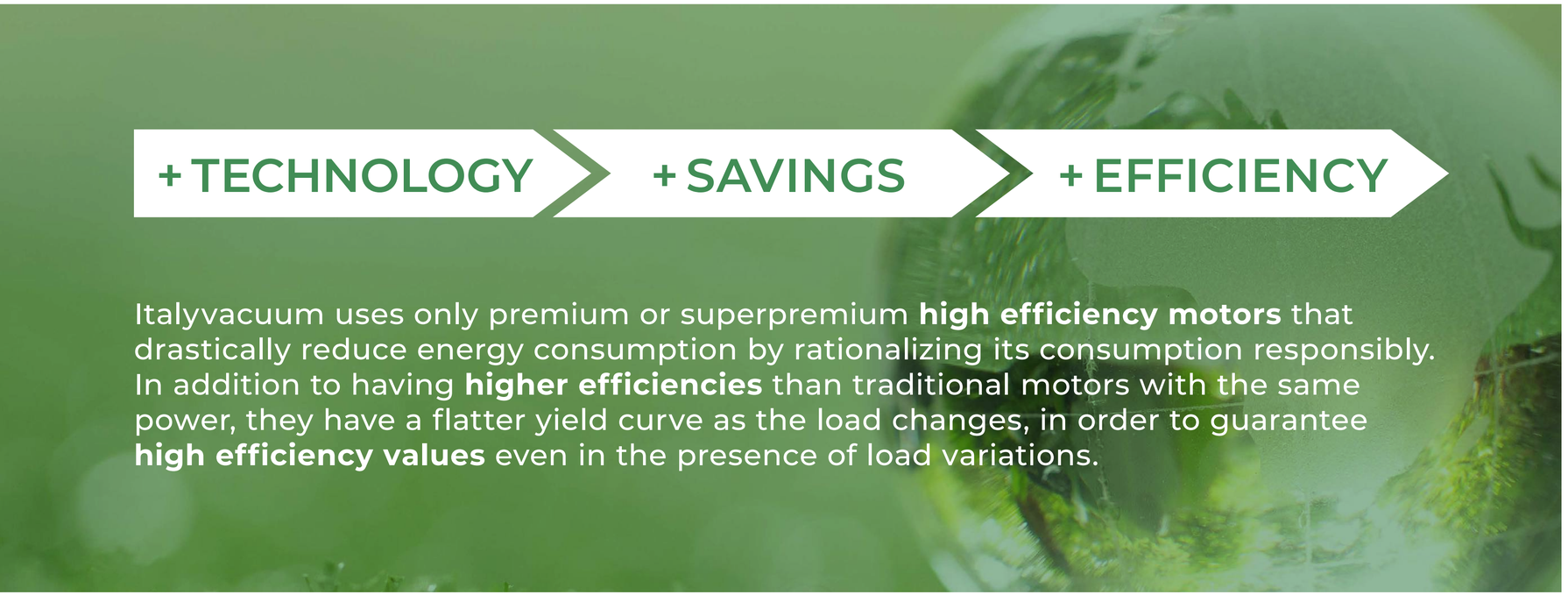
HEPA filters

Separator of liquids and solids

Aerial supports of various types

TCS - Touch Control Station

Oil drain valve



+ TECHNOLOGY + SAVINGS + EFFICIENCY

Italyvacuum uses only premium or superpremium **high efficiency motors** that drastically reduce energy consumption by rationalizing its consumption responsibly. In addition to having **higher efficiencies** than traditional motors with the same power, they have a flatter yield curve as the load changes, in order to guarantee **high efficiency values** even in the presence of load variations.

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Strada Della Fabbrina 6/E
61122 Pesaro - Italy
Tel. (+39) 0721 62 42 90
info@italyvacuum.com
www.italyvacuum.com

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