



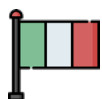
***PRODUCT  
CATALOGUE***

# THE EXCELLENCE OF **MADE IN ITALY**

## Who is Delfin

Delfin began its journey in 1991, when its founder Antonino Siclari created a company that has become a global player and one of the main manufacturers of industrial vacuums and industrial cleaning solutions. We are committed to bringing innovative ideas to the market and growth through long term partnerships with leading companies in our field.

### Made in Italy



Delfin manufactures all its products in Italy. We represent the Made in Italy in the world by promoting the excellence of our products.

### Vision



Delfin is a company that never stops growing and innovating. We create value with the aim of growing together with our partners.

### Mission



Every day we create innovative solutions to guarantee the safety and increase in productivity.



# A WORLD OF ADVANTAGES

## Why choose Delfin

Since thirty years, Delfin has grown as a specialized manufacturer of an extended range of equipment and provider of turnkey solutions in industrial vacuuming. Constant focus on self-improvement, quality control of product and service level have established Delfin as one of the leading global brands. Innovation and flexibility, thanks a team of experts dedicated to complex projects and customized products, are the drivers to constant development and improvement of customer satisfaction

### Customization



Flexibility in designing and manufacturing customized solutions relies on a 20 strong team of engineers in R&D, and an internal workshop including a powder coating line.

### Bufferstock



Bestsellers are always available in stock. Buffer Stock is a commitment to the customer to offer him a fast to market delivery service.

### Wide range



More than 130 models of fully customizable industrial vacuum cleaners allow us to always offer the right solution for every need.

### Service supply chain



Each Delfin customer has a dedicated team of specialists at his service, with a direct contact person in every department guaranteeing direct, fast and efficient support.







ABSOLUTE  
**RELIABILITY,**  
GUARANTEED  
**PERFORMANCE.**

## Services

The advantage of owning a Delfin product does not stop at a top quality product, fast shipping, and a 2-year warranty. We guarantee a fast and accurate assistance service, committing to answer your questions within 24 hours.

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## References



Large companies have chosen to rely on Delfin, thanks to the quality of our products and services. Delfin's references include some of the most successful companies and premium brands worldwide, that have chosen our solutions to improve their efficiency.

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**LAVAZZA**

 **Mylan**

 **Roche**

  
Mercedes-Benz

 **BOSCH**

 **Holcim**

# QUALITY AND PRODUCTIVITY **CERTIFIED**

## Certifications

A certified product is a safe product. Vacuum cleaners intended for use in risk-exposed areas and hazardous applications must be certified, preferably by a third party, in compliance with local and international regulations  
Atex, Tuv and ISO | CE regulations with the range of FDA accessories



TÜV certification



CE marking  
100% Made in Italy



ISO Quality  
9001:2015



ATEX Certification



ETL Intertek  
Marking

From product design to certification, our goal is to guarantee our customers the highest level in terms of product quality, safety, and functionality.





# DELFIN WORLDWIDE

Delfin distributes its industrial vacuum cleaners all over the world, through a network of branches and specialist partners and distributors on the field, in more than 100 countries



## Our branches

### Delfin SRL



Settimo Torinese



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### Delfin Industrial Corporation



Plymouth, MN



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[delfinindustrial.com](http://delfinindustrial.com)

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Stainless steel construction



Automatic filter cleaning system



OWR Filter



Hepa Filter



Other voltages



Other media filter



Atex Certification



Articulated suction arm



# SINGLE-PHASE INDUSTRIAL VACUUM CLEANERS

## DRY AND WET&DRY

SINGLE-PHASE

VACUUM CLEANERS



Single phase vacuum, using by-pass motors, are designed to work on non-continuous duty.

They include several models specifically designed for dry or wet & dry applications: from compact and mobile to larger and sturdier, from high filtration capacity to large collection capacity, they are ideal machine to collect mixed materials for daily cleaning operations in a large number of industries and applications.



**HIGH SUCTION PERFORMANCE**



**COMPACT, MOBILE AND MANEUVERABLE**



**EASY MAINTENANCE  
INTEGRATED FILTER CLEANING**





# Dry Vacuum cleaners

Compact and handy vacuum cleaners with 1 or 2 single-phase motors. Ideal for suction of fine dust thanks to large surface filters and different types of filtration available and numerous construction options.



**Single-phase**  
By-pass motors



**Cartridge filter**  
with PTFE coating and  
protection cyclone



**Roll-out**  
container

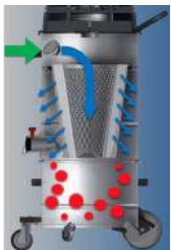


**Dustop**  
Integrated filter  
cleaning system



## Dustop filter cleaning system

Enables quick & easy, self-contained, manual cleaning of the filter, thanks to a reverse air pulse system exploiting the inside / outside pressure difference. Shut the suction inlet, open the cleaning flap a few times, and increase filter efficiency in a matter of seconds.



## Features

|                               |                         | 301 DUST       | 202 DS          |
|-------------------------------|-------------------------|----------------|-----------------|
| <b>Voltage - Power</b>        | V - kW                  | 230 1~   1,15  | 230 1~   2,3    |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O      | 2500           | 2500            |
| <b>Max air flow</b>           | m <sup>3</sup> /h       | 180            | 360             |
| <b>Filter</b>   IEC60335-2-69 | cm <sup>2</sup> - Class | 6.000 - M PTFE | 30.000 - M PTFE |
| <b>Capacity</b>               | lt                      | 13             | 20              |
| <b>Dimensions</b>             | cm                      | 46x48x85h      | 59x48x110h      |
| <b>Weight</b>                 | kg                      | 25             | 35              |



## Optionals







# Dry Vacuum cleaners

Single-phase industrial vacuums for suction of mixed solid and dusty materials. With 2 or 3 single-phase motors and large collection capacity. The ideal solution for general cleaning in any industrial environment.

SINGLE-PHASE

VACUUM CLEANERS



**Single-phase**  
By-pass motors



Large surface  
**Star Filter**



**Roll-out**  
container



Self-contained  
**Manual**  
filter cleaning system



**Accessory kit included**



Accessory kit included with models 451, 452 and DM3 EL.  
Example picture, features may vary

## Features

|                               |                         | 451            | 452DS        | DM3 EL        | DM3            |
|-------------------------------|-------------------------|----------------|--------------|---------------|----------------|
| <b>Voltage - Power</b>        | V - kW                  | 230 1-   1,15  | 230 1-   2,3 | 230 1-   3,45 | 230 1-   3,45  |
| <b>Motors</b>                 |                         | Brushless      | 2x By-pass   | 3x By-pass    | 3x By-pass     |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O      | 2250           | 2500         | 2500          | 2500           |
| <b>Max air flow</b>           | m <sup>3</sup> /h       | 215            | 360          | 540           | 540            |
| <b>Filter</b>   IEC60335-2-69 | cm <sup>2</sup> - Class | 20.000 - M ANT | 20.000 - L   | 30.000 - L    | 30.000 - M ANT |
| <b>Capacity</b>               | lt                      | 45             | 45           | 60            | 100            |
| <b>Dimensions</b>             | cm                      | 58x63x123h     | 53x63x120h   | 67x66x134h    | 77x66x150h     |
| <b>Weight</b>                 | kg                      | 55             | 55           | 70            | 85             |

## Optionals







# Wet & Dry Vacuum cleaners

Compact and powerful wet & Dry vacuums providing wide choice of power (1, 2 or 3 motors) and capacity (50 to 120 lt.). Designed to handle liquids and limited quantities of dry material, with specific features such as pump out discharge of liquids available.



**Double Filter kit**  
Wet and dry



**Single-phase**  
By-pass motors



Quick and easy  
**Liquid discharge**



**Floating device**  
stops suction when  
container is full



## Simultaneous suction and discharge with the 802WXP

Thanks to the immersion pump, it is possible vacuum and discharge liquids fast and simultaneously



### Accessory kit included



Sample picture

### Features



### Optionals

|                               |                         | 501WD                                  | 802WD                                  | 802WXP                      | DM40WD                                 |
|-------------------------------|-------------------------|--|--|-----------------------------|--|
| <b>Voltage - Power</b>        | V - kW                  | 230 1~   1,15                          | 230 1~   2,3                           | 230 1~   2,3                | 230 1~   3,45                          |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O      | 2500                                   | 2500                                   | 2500                        | 2500                                   |
| <b>Max air flow</b>           | m <sup>3</sup> /h       | 180                                    | 360                                    | 360                         | 540                                    |
| <b>Filter</b>   IEC60335-2-69 | cm <sup>2</sup> - Class | Dry 8.000 - L<br>Wet 4.000 - PPL 100µm | Dry 8.000 - L<br>Wet 8.000 - PPL 300µm | 8.000 - PPL 300µm           | Dry 8.000 - L<br>Wet 8.000 - PPL 100µm |
| <b>Capacity</b>               | lt                      | 50                                     | 80                                     | 80                          | 120                                    |
| <b>Discharge of liquids</b>   |                         | Discharge hose                         | Discharge hose                         | Immersion pump<br>100lt/min | Discharge valve                        |
| <b>Dimensions</b>             | cm                      | 52x40x90h                              | 53x59x106h                             | 53x59x105h                  | 68x63x105h                             |
| <b>Weight</b>                 | kg                      | 28                                     | 40                                     | 50                          | 50                                     |



INOX





# THREE-PHASE INDUSTRIAL VACUUM CLEANERS

## FOR SOLIDS AND LIQUIDS

THREE-PHASE

VACUUM CLEANERS



Three-phase industrial vacuums are used for **heavy and continuous applications**. The Delfin range of three-phase vacuum cleaners is the widest on the market and features dry and wet & dry models.

Thanks to the exceptional performance of power and durability of the equipped side-channel turbines, they are the ideal vacuum cleaners to be integrated into production lines or for use in centralized suction systems.



**IDEAL FOR CONTINUOUS WORK 24/7  
100% MAINTENANCE FREE MOTOR**



**PRESSURE RELIEF VALVE INSTALLED  
FOR MOTOR PROTECTION ON ALL  
MODELS**



**HIGHLY CUSTOMIZABLE PRODUCTS**







# Three phase industrial vacuums

Medium size three phase industrial vacuums, providing the right match of suction power, filtration, dimensions and collection capacity: this range offers flexible solutions in mobile cleaning, small central vacuum systems and direct extraction applications.



**Powerful** side channel **blower** with pressure relief valve



Large surface **Star Filter**



Self-contained **Manual** filter cleaning system



**Roll-out** container



Optional **Cyclone** for additional protection of the filter

## Optionals



## Features



|                               |                         | ZFR EL     | ZFR 75         | DG 50-70 EXP   | DG75           | DG75 AF        |
|-------------------------------|-------------------------|------------|----------------|----------------|----------------|----------------|
| <b>Voltage - Power</b>        | V - kW                  | 400 3~   3 | 400 3~   3     | 400 3~   4-5,5 | 400 3~   7,5   | 400 3~   7,5   |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O      | 3000       | 2600           | 3200/3600      | 4000           | 3200           |
| <b>Waterlift - continuous</b> |                         | 2300       | 2000           | 2600/3000      | 3200           | 2700           |
| <b>Max air flow</b>           | m <sup>3</sup> /h       | 318        | 370            | 420 - 530      | 530            | 700            |
| <b>Filter</b>   IEC60335-2-69 | cm <sup>2</sup> - Class | 30.000 - L | 30.000 - ANT M | 30.000 - L     | 49.000 - ANT M | 49.000 - ANT M |
| <b>Capacity</b>               | lt                      | 60         | 100            | 100            | 100            | 100            |
| <b>Dimensions</b>             | cm                      | 79x66x170h | 79x66x170h     | 66x118x145h    | 66x118x175h    | 66x118x175h    |
| <b>Weight</b>                 | kg                      | 90         | 95             | 145 - 150      | 170            | 170            |



# Three phase heavy duty industrial vacuums

The industrial vacuum cleaners of the DG VL series combine exceptional performance with great resistance. Ideal for suction of large quantities of solid and mixed liquid in continuous applications or installed on centralized suction systems.

THREE-PHASE

VACUUM CLEANERS



**Powerful** side channel **blower** with pressure relief valve



Large surface **star Filter**



Semi-automatic **Self Clean** filter cleaning system with compressor installed



User friendly **Roll-out** container



## Self Clean System

The system works thanks to an electropneumatic cylinder, powered by the installed compressor: by simply operating a lever on the control board, the operator can activate the cleaning cycle, that in a few seconds will shake the filter back to its highest efficiency. As an option, the system can be made fully automatic, by installing an additional timer



## Optionals



## Features



|                                    |                         | DG VL MAN 110  | DG VL 75       | DG VL 125      | DG VL 185      | DG VL 150 SE   |
|------------------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|
| <b>Voltage - Power</b>             | V - kW                  | 400 3~   11    | 400 3~   7,5   | 400 3~   12,5  | 400 3~   18,5  | 400 3~   15,5  |
| <b>Max waterlift</b>               | mmH <sub>2</sub> O      | 4000           | 4500           | 4000           | 4000           | 6000           |
| <b>Max waterlift in continuous</b> |                         | 2600           | 3200           | 2900           | 3200           | 5300           |
| <b>Max air flow</b>                | m <sup>3</sup> /h       | 1100           | 750            | 1100           | 1350           | 720            |
| <b>Filter</b>   IEC60335-2-69      | cm <sup>2</sup> - Class | 70.000 - ANT M | 70.000 - ANT M | 70.000 - ANT M | 70.000 - ANT M | 70.000 - ANT M |
| <b>Capacity</b>                    | lt                      | 160            | 160            | 160            | 160            | 160            |
| <b>Dimensions</b>                  | cm                      | 180x77x200h    | 180x77x200h    | 180x77x200h    | 180x77x200h    | 180x77x200h    |
| <b>Weight</b>                      | kg                      | 220            | 200            | 220            | 265            | 220            |





# Three phase heavy duty industrial vacuums

Large size three phase industrial vacuums, providing the highest performance and match of suction power, filtration, dimensions and collection capacity: specifically designed for the heavy industry and handle large volumes of materials, this range offers flexible solutions in mobile cleaning and large central vacuum systems



**Powerful** side channel **blower** with pressure relief valve



Large surface **star Filter**



Automatic **AUT** filter cleaning system with compressor installed



User friendly **Roll-out** container



## Automatic system AUT

An electro-pneumatic cylinder, powered by the compressor installed on board, shakes the polyester filter at regular and adjustable intervals, facilitating the detachment of dust and materials



**Fork lift** intakes



## Features

|                                    |                         | DG 200          | DG 300 SE       | DG 300 HD       |
|------------------------------------|-------------------------|-----------------|-----------------|-----------------|
| <b>Voltage - Power</b>             | V - kW                  | 400 3~   18,5   | 400 3~   20     | 400 3~   25     |
| <b>Max waterlift</b>               | mmH <sub>2</sub> O      | 4400            | 5000            | 4000            |
| <b>Max waterlift in continuous</b> |                         | 3200            | 4400            | 3100            |
| <b>Max air flow</b>                | m <sup>3</sup> /h       | 1350            | 1100            | 2050            |
| <b>Filter</b>   IEC60335-2-69      | cm <sup>2</sup> - Class | 120.000 - ANT M | 120.000 - ANT M | 120.000 - ANT M |
| <b>Capacity</b>                    | lt                      | 220             | 220             | 220             |
| <b>Dimensions</b>                  | cm                      | 92x220x220h     | 92x220x220h     | 92x220x220h     |
| <b>Weight</b>                      | kg                      | 660             | 760             | 805             |

## Optionals



THREE-PHASE

VACUUM CLEANERS



# INDUSTRIAL COMPRESSED AIR VACUUM CLEANERS



Compressed air vacuums are the ideal solution for environments with no or little availability of electrical power supply, or where the use of electrical equipment is prohibited for safety reasons (e.g., flooding, risk of explosion).

Delfin compressed air vacuums work with Venturi units of its own design, providing outstanding ratio between air consumption and suction performance; they are available in different sized and models, for multiple dry and wet & dry applications.



**IDEAL FOR APPLICATIONS  
WITH LITTLE OR NO  
ELECTRICAL POWER SUPPLY**



**COMPACT, HANDY AND  
POWERFUL**



**LOW CONSUMPTION OF  
COMPRESSED AIR**







# Compressed air vacuum cleaners

Wide range of industrial vacuums for all types of use, powered by low air consumption Venturi units. The ideal solution for suction of dust, solids and liquids in the absence or shortage of electrical power supply.



**Venturi**  
multi-nozzle units  
with low air consumption



**Large selection of filters** for each type of application



**Do you have to recover shot blasting grit?**  
**Try AIR201!**

Large collection capacity

Simplified discharge thanks to a user friendly manual butterfly valve

High mobility thanks to wheels and fork lift intakes



## Optionals



## Features

|                                |                         | 802 AIR                            | 202 AIR         | 452 AIR           | DM3 AIR HD        | DM3 AIR HD 25V    |
|--------------------------------|-------------------------|------------------------------------|-----------------|-------------------|-------------------|-------------------|
| <b>Applicazione</b>            |                         | Liquids                            | Dusts           | Dusts and liquids | Dusts and liquids | Dusts and liquids |
| <b>Air supply - Pressure</b>   | nl/min - bar            | 3000 - 6                           | 1500 - 6        | 3000 - 6          | 1530 - 6          | 2500 - 6          |
| <b>Max waterlift</b>           | mmH <sub>2</sub> O      | 4180                               | 4180            | 4180              | 5000              | 5000              |
| <b>Max air flow</b>            | m <sup>3</sup> /h       | 300                                | 150             | 300               | 465               | 590               |
| <b>Filter</b>   IEC60335-2-69  | cm <sup>2</sup> - Class | Dry 8.000 - L<br>Wet 4.000 - 100µm | 30.000 - M PTFE | 20.000 - ANT M    | 30.000 - ANT M    | 30.000 - ANT M    |
| <b>Capacity</b>                | lt                      | 80                                 | 20              | 45                | 100               | 100               |
| <b>Dimensions</b>              | cm                      | 53x59x100h                         | 59x48x101h      | 55x62x119h        | 62x62x160h        | 62x62x160h        |
| <b>Noise level EN ISO 3744</b> | dB (A)                  | 73                                 | 73              | 73                | 74                | 74                |
| <b>Weight</b>                  | kg                      | 33                                 | 30              | 49                | 80                | 80                |



# ATEX CERTIFIED INDUSTRIAL VACUUM CLEANERS

Delfin ATEX vacuums are designed to guarantee maximum safety in ATEX rated environments, where only certified equipment can be used. For such areas we provide a wide range of machines of multiple size, power, applications, that are tested and certified to prevent generating any source of ignition, be it from static energy, temperature or mechanical impact.

The design, choice of components and accessories, and certified compliance even for high risk areas, makes them the priority choice for anybody looking for the safest ATEX solution.

ATEX

VACUUM CLEANERS



**THE WIDEST RANGE OF ATEX CERTIFIED VACUUMS**



**EXCLUSIVE CERTIFICATE FOR ZONE 20 (INTERNAL)**



**MAXIMUM SAFETY DURING THE SUCTION OF EXPLOSIVE DUST**







## ATEX Regulation

ATEX stands for “**AT**mosphères **EX**plosives” and refers to the **directives of the European Union** (mainly 2014/34 / EU) which regulate the production and certification of equipment in areas exposed to the risk of explosion.

## Risk areas

|      | Area | Risk       | Category |
|------|------|------------|----------|
| Gas  | 0    | Continuous | 1G       |
|      | 1    | Occasional | 2G       |
|      | 2    | Rare       | 3G       |
| Dust | 20   | Continuous | 1D       |
|      | 21   | Occasional | 2D       |
|      | 22   | Rare       | 3D       |

## Atex certified solutions

### ATEX Z22



Industrial Electric Vacuum Cleaners for Zone 22:  
**Ex II 3D Ex tc IIIB T135°C X Dc**

Industrial Electric Vacuum Cleaners for Zone 22:  
**Ex II 3D Ex h IIIB T85°C Dc**

### ATEX Z20/21



Industrial Electric Vacuums certified by independent third party as Z20 internal and Z21 external compliant  
**Ex II 1/2D Ex h IIIC T160°C Da/Db**

### ATEX Z20/22



Industrial Electric Vacuums certified by independent third party external Z20 internal and Z22 external compliant  
**Ex II 1/3D Exh IIIB T135°C Da/Dc**

### ATEX Z0/1-2



Industrial compressed air vacuums certified for by independent third party as Z0 and Z1 – 2 compliant  
**Ex II 1/2G Ex h IIB T6 Ga/Gb**

### ATEX Z1-2/21-22



Industrial vacuum cleaners certified by independent third party for Z1-2 and Z21-22  
**Dust: Ex II 2D Ex h IIIC T85°C Db**  
**Gasses: Ex II 2G Ex h IIB T6 Gb**

### INERT



Industrial vacuums with certified container for explosive dust  
**Ex II 3D Ex h IIIC T85°C X Dc**

ATEX

VACUUM CLEANERS

# Zone 22 certified vacuum cleaners

Industrial vacuums certified for zone 22 (IIID) classified areas, with safety features such as earth grounding, antistatic filters, brushless non-sparking motors. Suitable for multiple applications thanks to a wide choice of sizes, power and features and options



Powerful, maintenance free **Brushless motor**



**Antistatic filter**, class M, high surface



**Maximum safety** thanks to the complete earth grounding of the machine



**DM3 2BL The first ATEX vacuum cleaner with two Brushless motors!**

Very high performance  
Potentiometer to adjust the suction power  
10.000 working hours guaranteed

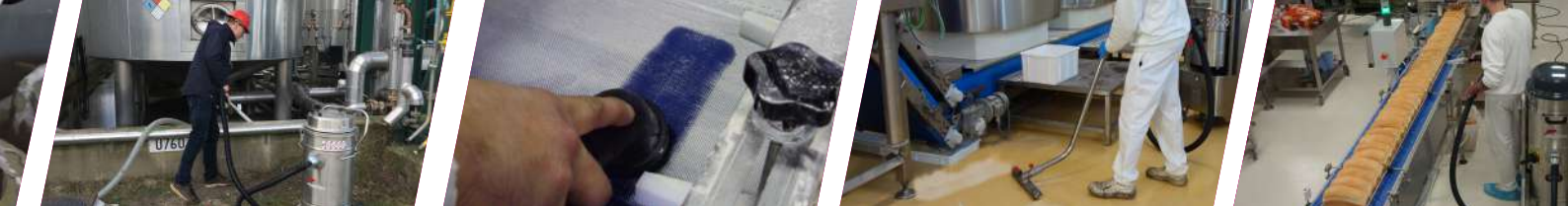


## Optionals



## Features

|                        |                         | 300 BL                           | 202 BL                           | 802WD                            | 451 BL                           | DM3 2BL                          |
|------------------------|-------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Marking                |                         | Ex II 3D Ex tc IIIB T135° C X Dc | Ex II 3D Ex tc IIIB T135° C X Dc | Ex II 3D Ex tc IIIB T135° C X Dc | Ex II 3D Ex tc IIIB T135° C X Dc | Ex II 3D Ex tc IIIB T135° C X Dc |
| Voltage - Power        | V - kW                  | 230 1~   1,1                     | 230 1~   1,1                     | 230 1~   1,1                     | 230 1~   1,1                     | 230 1~   2,2                     |
| Max waterlift          | mmH <sub>2</sub> O      | 2250                             | 2250                             | 2250                             | 2250                             | 2250                             |
| Max air flow           | m <sup>3</sup> /h       | 215                              | 215                              | 215                              | 215                              | 430                              |
| Filter   IEC60335-2-69 | cm <sup>2</sup> - Class | 4.000 - ANT M                    | 30.000 - ANT M                   | 8.000 - ANT M                    | 20.000 - ANT M                   | 30.000 - ANT M                   |
| Capacity               | lt                      | 40                               | 20                               | 80                               | 45                               | 100                              |
| Dimensions             | cm                      | 44x42x78h                        | 57x48x108h                       | 51x59x116h                       | 58x63x135h                       | 77x66x150h                       |
| Weight                 | kg                      | 25                               | 35                               | 40                               | 55                               | 85                               |



# Zone 20 Internal certified vacuum cleaners

## Dust (Category IIIB)

Industrial vacuum cleaners for use in potentially explosive areas Atex 22 due to the presence of non-conductive explosive dust



Powerful,  
maintenance free  
**Brushless motor**



Large surface  
**antistatic filter**



Absolute filter  
**H14 included**






Overpressure valve installed  
for **maximum safety**

ATEX

VACUUM CLEANERS

## Features

|                        |                         |  |  |  |
|------------------------|-------------------------|---|---|---|
|                        |                         | 300 BL 1/3D   | 202 BL 1/3D   | 451 BL 1/3D   |
| Marking                |                         | Ex II 1/3D Exh IIIB<br>T135° C Da/Dc  | Ex II 1/3D Exh IIIB<br>T135° C Da/Dc  | Ex II 1/3D Exh IIIB<br>T135° C Da/Dc  |
| Voltage - Power        | V - kW                  | 230 1-   1,1  | 230 1-   1,1  | 230 1-   1,1  |
| Max waterlift          | mmH <sub>2</sub> O      | 2250  | 2250  | 2250  |
| Max air flow           | m <sup>3</sup> /h       | 215   | 215   | 215   |
| Filter   IEC60335-2-69 | cm <sup>2</sup> - Class | 4.000 - ANT M<br>20.500 - H14   | 30.000 - ANT M<br>20.500 - H14  | 8.000 - ANT M<br>20.500 - H14   |
| Capacity               | lt                      | 40  | 20  | 45  |
| Dimensions             | cm                      | 44x42x78h   | 57x48x108h  | 58x63x135h  |
| Weight                 | kg                      | 25  | 35  | 55  |





# Zone 20 Internal certified vacuum cleaners

## Dust (Category IIIC)

Industrial vacuum cleaners for use in areas with high risk of explosion due to the presence of explosive and conductive dust. Certification of the vacuum cleaner in zone 20 internal, certification for zones 21 or 22 external.



**Powerful, maintenance free side channel blower,**  
Atex certified by the manufacturer



**Large surface antistatic filter**



**Absolute filter H14 included**



**Wide range** of certified vacuum cleaners up to 18.5 kW

## Optionals



## Features

|                               |                         | 202 DS ECO                           | 3533                                 | DG EXP                               | DG VL                                | DG HD                                |
|-------------------------------|-------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| <b>Marking</b>                |                         | Ex II 1/2D Ex h IIIC<br>T160°C Da/Db | Ex II 1/2D Ex h IIIC<br>T160°C Da/Db | Ex II 1/2D Ex h IIIC<br>T160°C Da/Db | Ex II 1/2D Ex h IIIC<br>T160°C Da/Db | Ex II 1/2D Ex h IIIC<br>T160°C Da/Db |
| <b>Voltage - Power</b>        | V - kW                  | 230 3~   2,2                         | 400 3~   4                           | 400 3~   4                           | 400 3~   7,5                         | 400 3~   18,5                        |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O      | 1800                                 | 2700                                 | 2300                                 | 2700                                 | 1800                                 |
| <b>Max air flow</b>           | m <sup>3</sup> /h       | 250                                  | 320                                  | 420                                  | 700                                  | 2050                                 |
| <b>Filter</b>   IEC60335-2-69 | cm <sup>2</sup> - Class | 30.000 - ANT M<br>20.500 - H14       | 20.000 ANT M<br>27.000 - H14         | 30.000 - ANT M<br>26.500 - H14       | 70.000 - ANT M<br>52.000 - H14       | 120.000 - ANT M<br>103.500 - H14     |
| <b>Capacity</b>               | lt                      | 20                                   | 45                                   | 100                                  | 160                                  | 220                                  |
| <b>Dimensions</b>             | cm                      | 52x48x120                            | 98x55x125h                           | 60x103x170h                          | 180x77x200h                          | 95x180x220h                          |
| <b>Weight</b>                 | kg                      | 64                                   | 85                                   | 145                                  | 200                                  | 810                                  |

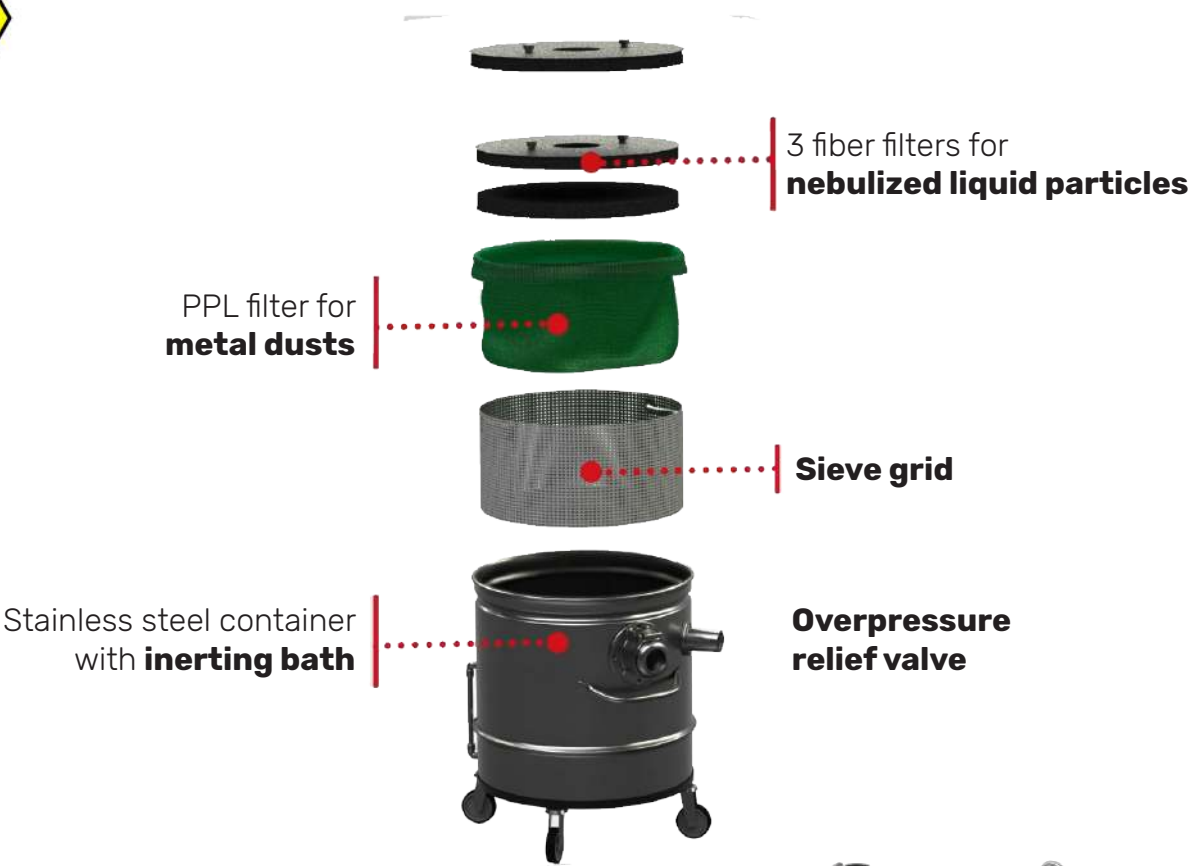






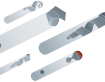
# Solutions for the inertization of conductive and explosive dusts

The inerting system is designed to collect and dispose in full safety explosive dust and particles: explosive materials are vacuumed inside the container, where they come in contact with a liquid (inerting bath) that immediately makes them non-explosive.



## Features

|                               |                         | INERT<br>PRE-SEPARATOR           | 451 BL INERT                       | ZEFIRO 75 INERT                    | DG 50 EXP<br>INERT                 |
|-------------------------------|-------------------------|----------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Marking of the vacuum cleaner |                         |                                  | Ex II 3D Ex tc IIIB<br>T135°C X Dc | Ex II 3D Ex tc IIIB<br>T135°C X Dc | Ex II 3D Ex tc IIIB<br>T135°C X Dc |
| Marking of the container      |                         | Ex II 3D Ex h IIIC<br>T85°C X Dc | Ex II 3D Ex h IIIC<br>T85°C X Dc   | Ex II 3D Ex h IIIC<br>T85°C X Dc   | Ex II 3D Ex h IIIC<br>T85°C X Dc   |
| Voltage - Power               | V - kW                  | -                                | 230 1-   1,1                       | 400 3-   3                         | 400 3-   4                         |
| Max waterlift                 | mmH <sub>2</sub> O      | -                                | 2250                               | 2600/2000                          | 3200/2700                          |
| Max air flow                  | m <sup>3</sup> /h       | -                                | 215                                | 370                                | 420                                |
| Filter   IEC60335-2-69        | cm <sup>2</sup> - Class | -                                | 20.000 - ANT M                     | 20.000 - ANT M                     | 30.000 - ANT M                     |
| Oil - Dust Capacity           | lt                      | 27-13                            | 8-4                                | 27/13                              | 27/13                              |
| Weight                        |                         | 36                               | 62                                 | 105                                | 155 kg                             |
| Dimensions                    | cm                      | 50x60x112h                       | 57x48x108h                         | 79x66x170h                         | 66x118x145h                        |





# AIREX compressed air vacuums

Industrial vacuum cleaners certified ATEX for zones 1, 2, 21, 22, suitable for wherever the use of electricity is not possible or forbidden. Designed to collect explosive and conductive dusts as per category IIIC



**Venturi**  
multi-nozzle units  
with low air consumption



Wide choice of **filters**  
for every type of  
application

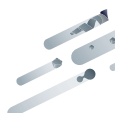


**AISI 304 stainless steel**  
Construction



## Features

|                               |                         | 202 AIREX  | 352 AIREX  | 802 AIREX  | DM3 AIREX<br>19V - 25V   |
|-------------------------------|-------------------------|--|--|--|--|
| <b>Marking</b>                |                         | 2GD<br>Ex II 2D Ex h IIIC T85°C Db;<br>Ex II 2G Ex h IIB T6 Gb | 2GD<br>Ex II 2D Ex h IIIC T85°C Db;<br>Ex II 2G Ex h IIB T6 Gb | 2GD<br>Ex II 2D Ex h IIIC T85°C Db;<br>Ex II 2G Ex h IIB T6 Gb | 2GD<br>Ex II 2D Ex h IIIC T85°C Db;<br>Ex II 2G Ex h IIB T6 Gb |
| <b>Air supply - Pressure</b>  | nlt/min - bar           | 1500 - 6   | 3000 - 6   | 3000 - 6   | 1530 -6 /2500 - 6  |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O      | 4180   | 4180   | 4180   | 5000   |
| <b>Max air flow</b>           | m <sup>3</sup> /h       | 150  | 300  | 300  | 465 / 590  |
| <b>Filter</b>   IEC60335-2-69 | cm <sup>2</sup> - Class | 30.000 - ANT M   | 20.000 - ANT M   | 8.000 - ANT M  | 30.000 - ANT M   |
| <b>Capacity</b>               | lt                      | 20   | 45   | 80   | 100  |
| <b>Dimensions</b>             | cm                      | 50x48x100h   | 70x55x127h   | 62x53x108h   | 62x62x160h   |
| <b>Noise level</b>            | dB(A)                   | 73   | 73   | 73   | 74   |
| <b>Weight</b>                 | kg                      | 36   | 50   | 36   | 80   |





# WET AIREX certified solutions

Industrial vacuum cleaners Atex certified for suction of flammable liquids.  
Explosion-proof Atex gas 1 / 2G certified



Certified to vacuum  
**flammable liquids**



**Venturi** units with low air consumption



**AISI 316 stainless steel**  
Cartridge filter



**Activated carbon** filter



## Features

|                               |                         | 501 WET AIREX                            | 802 WET AIREX                            |
|-------------------------------|-------------------------|--|--|
| <b>Marking</b>                |                         | Ex II 1/2G Ex h IIB T6 Ga/Gb             | Ex II 1/2G Ex h IIB T6 Ga/Gb             |
| <b>Air supply - Pressure</b>  | nlt/min -bar            | 1500 - 6                                 | 3000 - 6                                 |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O      | 4180                                     | 4180                                     |
| <b>Max air flow</b>           | m <sup>3</sup> /h       | 150                                      | 300                                      |
| <b>Filter</b>   IEC60335-2-69 | cm <sup>2</sup> - Class | 1,600 Stainless steel + Activated carbon | 1,600 Stainless steel + Activated carbon |
| <b>Capacity</b>               | lt                      | 50                                       | 80                                       |
| <b>Dimensions</b>             | cm                      | 52x40x90h                                | 62x53x108h                               |
| <b>Weight</b>                 | kg                      | 25                                       | 36                                       |





## INDUSTRIAL VACUUM CLEANERS FOR RECOVER AND SEPARATION OF **OIL** AND **SWARF**

The industrial vacuum cleaners of the Tecnoil range are the ideal solution to always guarantee the maximum efficiency of machine tools in industries that carry out mechanical processing.

They enable to quickly remove oils and emulsions from the machine tools mixed with the metal shavings left over from the processes, filter them and put them back into the system ready to be reused for subsequent work cycles. The use of Delfin oil and chip vacuum cleaners, therefore, enables the reuse of emulsions, guaranteeing economic savings on the purchase of oils, reducing maintenance and downtime.

TECNOIL

VACUUM CLEANERS



**RECOVER AND REUSE  
OF LUBRICANT OIL**



**SAVINGS ON THE PURCHASE OF OIL  
AND DISPOSAL OF SWARFS**



**REDUCTION OF MAINTENANCE  
TIME AND MACHINE STOPS**

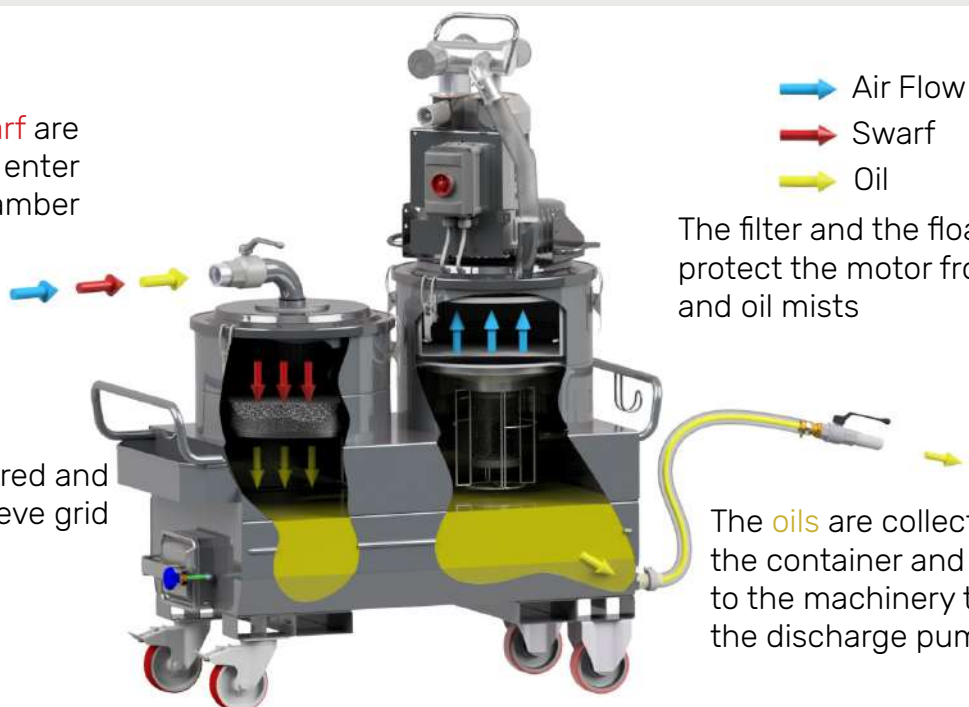




# How does it work?

Oil and Swarf are vacuumed and enter the filter chamber

Swarfs are filtered and held into the sieve grid



- ➡ Air Flow
- ➡ Swarf
- ➡ Oil

The filter and the floating protect the motor from oil and oil mists

The oils are collected in the container and returned to the machinery through the discharge pump

## Oil and swarf

The use of vacuum cleaners for oil and swarf allows the reuse of emulsions, guaranteeing economic savings and reducing the time for maintenance



## Swarf and shavings

Tecnoil vacuums make it possible to collect and separate large quantities of metal chips and shavings, simply , safely and quickly





## Oil and swarf vacuum cleaners up to 100/40 liters

Compact and powerful vacuum cleaners for suction of oils and swarfs with an integrated liquid discharge system. The vacuum motors are protected by several levels of filtration, designed and selected with specific regard to the liquids most frequently collected: oil, coolant, emulsions.



**Polypropylene filter** for solid and liquid separation and high-efficiency **3D Superweb Filter**



Level indicator and **float system** to stop the suction when container is full



Simultaneous **suction and discharge** thanks to the immersed pump



**Grid basket** for easy swarf removal

### Features

|                                  |                         | DM40 OIL                        | TC 100 IF                     | TC 100 MPI                    |
|----------------------------------|-------------------------|---------------------------------|-------------------------------|-------------------------------|
| <b>Voltage - Power</b>           | V - kW                  | 230 1~   3,45                   | 400 3~   3                    | 230 1~   3,45                 |
| <b>Max waterlift</b>             | mmH <sub>2</sub> O      | 2500                            | 3000/2700                     | 2500                          |
| <b>Max air flow</b>              | m <sup>3</sup> /h       | 540                             | 318                           | 540                           |
| <b>Filter</b>   IEC60335-2-69    | cm <sup>2</sup> - Class | Poliester - L<br>PPL 300 micron | Superweb 3D<br>PPL 300 micron | Superweb 3D<br>PPL 300 micron |
| <b>Liquids - Solids Capacity</b> | lt                      | 100 - 40                        | 100 - 40                      | 100 - 40                      |
| <b>Discharge system</b>          |                         | Exhaust valve                   | Reverse flow                  | Immersed pump                 |
| <b>Dimensions</b>                | cm                      | 67x66x125h                      | 67x66x135h                    | 67x66x125h                    |
| <b>Weight</b>                    | kg                      | 65                              | 95                            | 70                            |

### Optionals

OWR





# Oil and swarf vacuum cleaners up to 220/40 liters

Vacuum cleaners for medium quantities of oil and swarf with integrated discharge system. Level control, float and extractable basket. Multiple stages of separation and filtration enable to fine-filter the liquid, while oil mist filters floating guarantee protection of the motor.



**Powerful side channel blower** with reverse flow for liquid discharge



20 micron  
**Superweb 3D filter**



**Fork lift**  
intakes



**Hatch**  
for internal cleaning



**Water repellent OWR filter to protect the motor - Optional**

This filter cartridge traps a large amount of the nebulized oil and liquid particles , protecting the motor and avoiding dispersion of oil mist in the environment



## Features

|                                  |                         | TC 220 IF                          | TC 220 MPI                         |
|----------------------------------|-------------------------|------------------------------------|------------------------------------|
| <b>Voltage - Power</b>           | V - kW                  | 400 3~   3                         | 230 1~   3,45                      |
| <b>Max waterlift</b>             | mmH <sub>2</sub> O      | 3200/2700                          | 2500                               |
| <b>Max air flow</b>              | m <sup>3</sup> /h       | 318                                | 540                                |
| <b>Filter</b>   IEC60335-2-69    | cm <sup>2</sup> - Class | 3D Superweb<br>PPL filter optional | 3D Superweb<br>PPL filter optional |
| <b>Liquids - Solids Capacity</b> | lt                      | 220 - 40                           | 220 - 40                           |
| <b>Discharge system</b>          |                         | Reverse flow                       | Submerged pump                     |
| <b>Dimensions</b>                | cm                      | 110x63x181h                        | 110x63x14h                         |
| <b>Weight</b>                    | kg                      | 185                                | 165                                |

## Optionals

OWR



TECNOIL

VACUUM CLEANERS

## Oil and swarf vacuum cleaner up to 400/50 liters

Powerful oil and chips vacuums, designed to collect large quantities of oil, coolant, emulsion and separate it from chips, with optional upgrade to fine filtration. Guarantees fast recovery of clean oil thanks to reverse flow or a powerful discharge pump



**Powerful side channel blower** with reverse flow for liquid discharge



**Sieve grid** for easy chip removal



**Tilting Hopper** for chip discharge



**Hatch** for internal cleaning



**Fast discharge** of filtered liquids



### Features

|                                   |                         | TC 400 IF                          | TC 400 T43                         |
|-----------------------------------|-------------------------|------------------------------------|------------------------------------|
| <b>Voltage - Power</b>            | V - kW                  | 400 3~   4                         | 400 3~   4,3                       |
| <b>Max waterlift</b>              | mmH <sub>2</sub> O      | 3200                               | 5100                               |
| <b>Waterlift - Continuous use</b> |                         | 2600                               | 4400                               |
| <b>Max air flow</b>               | m <sup>3</sup> /h       | 420                                | 320                                |
| <b>Filter</b>   IEC60335-2-69     | cm <sup>2</sup> - Class | 3D Superweb<br>PPL filter optional | 3D Superweb<br>PPL filter optional |
| <b>Liquids - Solids Capacity</b>  | lt                      | 400 - 50                           | 400 - 50                           |
| <b>Discharge system</b>           |                         | Reverse flow                       | Pump                               |
| <b>Dimensions</b>                 | cm                      | 140x70x180h                        | 140x70x180h                        |
| <b>Weight</b>                     | kg                      | 225                                | 250                                |

### Optionals





# Oil and swarf vacuum cleaners up to 600 liters

The most powerful vacuum cleaner in the range dedicated to the recovery and separation of oil from chips. Powerful turbine, liquid collection capacity of 600 liters and chip of 75 liters, independent discharge pump. Maintenance of machine tools will no longer be a problem thanks to this vacuum cleaner.



**Sludge removal** from CNC collection tanks



**Polypropylene** filter for solid and liquid separation and **Superweb 3D** filter for oily mists



**Removable container** for disposal of the vacuumed chips



Forklift intakes on **both sides**



**Fast discharge** of filtered liquids

## Features



|                            |                         | TC 600      |
|----------------------------|-------------------------|-------------|
| Voltage - Power            | V - kW                  | 400 3~   11 |
| Max waterlift              | mmH <sub>2</sub> O      | 6000/5300   |
| Waterlift - Continuous use |                         |             |
| Max air flow               | m <sup>3</sup> /h       | 480         |
| Filter   IEC60335-2-69     | cm <sup>2</sup> - Class | 3D Superweb |
| Liquids - Solids Capacity  | lt                      | 610 - 78    |
| Discharge system           |                         | Pump        |
| Dimensions                 | cm                      | 195x72x195h |
| Weight                     | kg                      | 405         |





# Dry Industrial vacuum for collection of large volumes

Three-phase industrial vacuum with modular , detachable suction and collection units. Easy to handle and safe during unloading operations, suitable to handle large volumes of dry material.

LARGE QUANTITIES

VACUUM CLEANERS



**Powerful side channel blower** with relief valve



**Fork lift** Intakes



**Window** for visual control of the filling level



**Safe and fast** front discharge via safety lever

## Features



|                                   |                         | C600 T75     | C600 T125     | C600 T150 SE |
|-----------------------------------|-------------------------|--------------|---------------|--------------|
| <b>Voltage - Power</b>            | V - kW                  | 400 3~   7,5 | 400 3~   12,5 | 400 3~   15  |
| <b>Max waterlift</b>              | mmH <sub>2</sub> O      | 4000         | 4000          | 6000         |
| <b>Waterlift - Continuous use</b> |                         | 2700         | 2900          | 5300         |
| <b>Max air flow</b>               | m <sup>3</sup> /h       | 700          | 1100          | 720          |
| <b>Filter</b>   IEC60335-2-69     | cm <sup>2</sup> - Class | 49.000 ANT M | 49.000 ANT M  | 49.000 ANT M |
| <b>Capacity</b>                   | lt                      | 600          | 600           | 600          |
| <b>Dimensions</b>                 | cm                      | 220x100x220h | 220x100x220h  | 220x100x220h |
| <b>Weight</b>                     | kg                      | 250          | 270           | 290          |



# Vacuum separator for large quantities of material


The vacuum separator B200 M has a large collection capacity of solid materials, with the possibility to separate solids from liquids. The tilting container enables easy and fast discharge of the vacuumed material and is provided with forklift intakes




**Single-phase** By-pass motors



Large surface **antistatic filter**



**Discharge by** tilting



**Fork lift** Intakes

LARGE QUANTITIES  
VACUUM CLEANERS

## Features



|                           |                         | B200M      |
|---------------------------|-------------------------|------------|
| Voltage - Power           | V - kW                  | 230 1~   3 |
| Max waterlift             | mmH <sub>2</sub> O      | 2400       |
| Max air flow              | m <sup>3</sup> /h       | 540        |
| Filter   IEC60335-2-69    | cm <sup>2</sup> - Class | 12.000 L   |
| Solids - liquids Capacity | lt                      | 30 - 200   |
| Discharge system          |                         | Tilting    |
| Dimensions                | cm                      | 93x81x124h |
| Weight                    | kg                      | 160        |



# INDUSTRIAL VACUUM CLEANERS **FOR** **PHARMACEUTICAL, FOOD AND OEM** **INDUSTRIES**

FOOD, PHARMA, OEM

VACUUM CLEANERS

The pharmaceutical and food industries must always guarantee the highest quality of the finished product. For this reason, cleanliness, hygiene and safety are a priority in all these industries.

Delfin manufactures vacuum cleaners and pneumatic conveyors for cleaning, extraction and transport purpose, to guarantee the highest quality, safety and efficiency in food and pharmaceutical production



**MAXIMUM QUALITY OF  
FINISHED PRODUCTS**



**AVOID CROSS  
CONTAMINATION**



**FULL COMPLIANCE  
WITH GMP STANDARDS**







**Industrial vacuum cleaners for cleaning production lines and machinery**



**Industrial vacuums for clean rooms**



**Fixed suction units for direct extraction on production machinery**



**Trim extractor to collect light, bulky, production scraps from packing and other machinery**



**Pneumatic conveyors for powders and solids**



**FOOD, PHARMA, OEM  
VACUUM CLEANERS**

# Vacuum cleaners for cleaning operations

Vacuum cleaner specifically designed for the needs of the food, chemical and pharmaceutical industries. Large filtering surface with the possibility of additional H14 / HEPA filters for suction of fine, hazardous dust. Designed with smooth surfaces to facilitate sainting as per GMP, it's available with multiple options including full stainless steel construction and product bagging systems.



**Powerful side channel blower** with relief valve



**Large surface antistatic star filters**



Comfortable **Roll-out** container



**Low** sound level

## Optionals



## Features



|                                   |                        | PHARMA 20/30   | 4533         | 4534         | 4535         |
|-----------------------------------|------------------------|----------------|--------------|--------------|--------------|
| <b>Alimentazione / Potenza</b>    | V - kW                 | 400 3~ 1,8/2,2 | 400 3~ 2,2   | 400 3~ 3     | 400 3~ 4     |
| <b>Max waterlift</b>              | mmH <sub>2</sub> O     | 2300/2600      | 2600         | 3200         | 3200         |
| <b>Waterlift - Continuous use</b> |                        | 1800/1900      | 1900         | 2700         | 2600         |
| <b>Max air flow</b>               | m <sup>3</sup> /h      | 250            | 318          | 318          | 420          |
| <b>Filter</b>   IEC60335-2-69     | cm <sup>2</sup> -Class | 30.000 M PTFE  | 20.000 ANT M | 20.000 ANT M | 20.000 ANT M |
| <b>Container Capacity</b>         | lt                     | 33             | 45           | 45           | 45           |
| <b>Noise</b>                      | dB(A)                  | 67             | 69           | 69           | 69           |
| <b>Dimensions</b>                 | cm                     | 52x69x147h     | 100x55x125h  | 100x55x125h  | 100x55x125h  |
| <b>Weight</b>                     | kg                     | 72/75          | 85           | 85           | 90           |

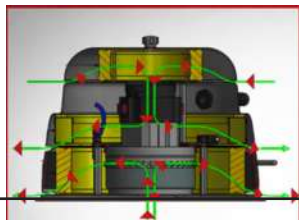


# Vacuum cleaners for clean rooms

Range of compact vacuums designed for use in sterile environments: Labcontrol vacuums are available with up to 6 filtration levels to comply with the ISO4 classification of clean rooms and ensure maximum cleanliness of the air on the exhaust. Designed for fast assembly and easy sanitizing , autoclavable.



Clean Room compliance up to **ISO4**



Up to **6 levels of HEPA / ULPA** air filtration



**Autoclavable** mirror polished container in **AISI316 stainless steel**



Autoclavable **accessories kit** available

CLEAN ROOMS

VACUUM CLEANERS

## Features

|                               |                         | Microtec      | LC 1000D      | LC 1100 WD                    |
|-------------------------------|-------------------------|---------------|---------------|-------------------------------|
| Voltage - Power               | V - kW                  | 230 1~   1    | 230 1~   1    | 230 1~   1                    |
| Max waterlift                 | mmH <sub>2</sub> O      | 2900          | 2900          | 2500                          |
| Max air flow                  | m <sup>3</sup> /h       | 175           | 175           | 180                           |
| Solids - liquids Capacity     | lt                      | 15 - 0        | 5 - 0         | 25 - 40                       |
| Primary filter                | cm <sup>2</sup> - Class | 2000 - M PTFE | 2000 - M PTFE | 3000 M - PTFE                 |
| Filter in Suction and Blowing |                         | H14 Included  | U15 standard  | U15 standard (Opt in blowing) |
| Cooling air filter            |                         | -             | -             | U15 standard                  |
| Dimensions                    | cm                      | 30x35x50h     | 36x33x51h     | 43x43x73h                     |
| Weight                        | kg                      | 12            | 20            | 27                            |

## Optionals







# Vacuums with direct extraction on machinery

The DBF / DBFV vacuum units are designed to for direct, continuous extraction of production of industrial machinery from various types of industries. Compact, modular and performing without maintenance.

MACHINERY INTEGRATION

VACUUM CLEANERS



**Powerful side channel blower** with relief valve



**Compact units** easy to integrate in narrow spaces



Easily **detachable** container



**Horizontal or vertical** modular units available

## Optionals



## Features



|                                   |                    | DBF 05 -10          | DBF20 - 30         | DBFV 05 - 10      | DBFV 20- 30        |
|-----------------------------------|--------------------|---------------------|--------------------|-------------------|--------------------|
| <b>Voltage - Power</b>            | V - kW             | 400 3~   0,4 / 0,85 | 400 3~   1,8 / 2,2 | 400 3~   0,4/0,85 | 400 3~   1,8 / 2,2 |
| <b>Max waterlift</b>              | mmH <sub>2</sub> O | 1750 / 2000         | 2300 / 2500        | 1750 / 2000       | 2300 / 2500        |
| <b>Waterlift - Continuous use</b> |                    | 1400 / 1400         | 1800 / 1900        | 1400 / 1400       | 1800 / 1900        |
| <b>Max air flow</b>               | m <sup>3</sup> /h  | 100 / 150           | 250 / 318          | 100 / 150         | 250 / 318          |
| <b>Capacity</b>                   | lt                 | 15                  | 15                 | 65 / 69           | 15 / 15            |
| <b>Vertical Dimensions</b>        | cm                 | 42                  | 71                 | 73                | 113                |
| <b>Horizontal Dimensions</b>      | cm                 | 75x34               | 44x84              | 50X33             | 54X42              |
| <b>Weight</b>                     | kg                 | 30/35               | 45/60              | 30/35             | 45/60              |



# Industrial trim extractor

The AS range of vacuums is designed for the extraction of scraps and waste generated during production by packaging and other types of machinery. The collected waste, which is typically light and bulky, is collected and compacted into a nylon bag, easy and quick to remove.. All AS vacuums can work 24/7 and are provided with an integrated silencer and a window for bag filling control.



**Powerful side channel blower** with relief valve



**Silencer** for noise reduction



**Direct integration** on machinery and production lines



Suction from above and **compression** of the collected waste, exploiting full capacity and preventing clogging

TRIM EXTRACTION

VACUUM CLEANERS

## Optionals



## Features



|                                   |                         | AS 10         | AS 20        | AS 30        | AS 70        |
|-----------------------------------|-------------------------|---------------|--------------|--------------|--------------|
| <b>Voltage - Power</b>            | V - kW                  | 400 3~   0,85 | 400 3~   1,8 | 400 3~   2,2 | 400 3~   5,5 |
| <b>Max waterlift</b>              | mmH <sub>2</sub> O      | 2000          | 2300         | 2500         | 3600         |
| <b>Waterlift - Continuous use</b> |                         | 1400          | 1800         | 2000         | 3000         |
| <b>Max air flow</b>               | m <sup>3</sup> /h       | 150           | 250          | 318          | 530          |
| <b>Capacity</b>                   | lt                      | 130           | 130          | 130          | 210          |
| <b>Filter</b>                     | cm <sup>2</sup> - Class | L Bag         | L Bag        | L Bag        | L Bag        |
| <b>Dimensions</b>                 | cm                      | 59x55x132     | 59x55x132    | 59x55x132    | 63x100x125h  |
| <b>Weight</b>                     | kg                      | 60            | 68           | 69           | 125          |





# PNEUMATIC CONVEYORS

CONVEYORS

PNEUMATIC



Transport of powders, solid or granular materials is a very delicate phase of production processes.

Pneumatic conveyors represent the best transport solution for industrial applications, the only one capable of eliminating product dispersions and completely eliminating the risk of contamination.



**ELIMINATE THE RISK OF CONTAMINATION**



**NO ALTERATION OR DEMIXING OF THE HANDLED PRODUCT**



**SIMPLE INSTALLATION AND LOW MAINTENANCE COSTS**



**SAFETY AND HEALTH OF THE WORKING ENVIRONMENTS**







# Handling Solutions

The dense or dilute phase pneumatic conveyors can find different applications related to the handling of dusty, granular or solid material in many types of industries.



HANDLING



SEPARATION



LOAD/DISCHARGE



DISTRIBUTION



BLENDING



DOSAGE



CONVEYORS  
PNEUMATIC

### Features

- > AISI304 stainless steel manufactured
- > Total customization
- > CE certificate and for use in the food industry
- > ATEX zone 21 or 22 certification available
- > Wide range of accessories available

### Suction unit

- > Electric singlephase or threephase (1 to 17,3 kW)
- > Pneumatic multijet Venturi unit (4 to 15 nozzles)

### Loading unit

- > Tangential inlet from 40 up to 100 mm
- > Capacity from 8 up to 65 lt

### Discharge unit

- > Discharge size from 100 up to 250 mm
- > Clapet valve, butterfly valve

### Filtration unit

- > Food contact certified polyester or AISI316 stainless steel filters
- > Automatic filter cleaning systems

### Further optionals

- > Suction nozzle
- > Hopper for product collection
- > Customized finishing
- > Discharge valve line
- > Max level sensor on the conveyor or receiver system
- > Fixed or dynamic frame



| Pneumatic Models (6bar) |        |          |
|-------------------------|--------|----------|
| Multi-jet Venturi       |        | 4-15     |
| Air consumption         | NI/min | 370-1400 |
| Water lift              | mbar   | 750      |
| Airflow                 | m³/h   | 110-380  |

| Electric models (50Hz) |         | 230V 1~ | 400V 3~    |
|------------------------|---------|---------|------------|
| Voltage                | kW      | 1,15    | 2,2 - 17,3 |
| Air consumption        | NI/min  | 250     | 250        |
| Max waterlift          | mbar    | 235     | 210-540    |
| Max air flow           | Airflow | 170     | 318-1.200  |



# DUST COLLECTORS

DUST COLLECTORS

VACUUM CLEANERS



The main feature of the Delfin Dust collectors is a very high air flow, which enables to extract airborne dust and light particles.

They can be used as direct extractors connected to process machinery, or as mobile units with extraction arms



**FIXED OR MOBILE APPLICATION**



**LOCAL EXTRACTION OF AIRBORNE DUST AND PARTICLES**



**CERTIFIED SAFETY**





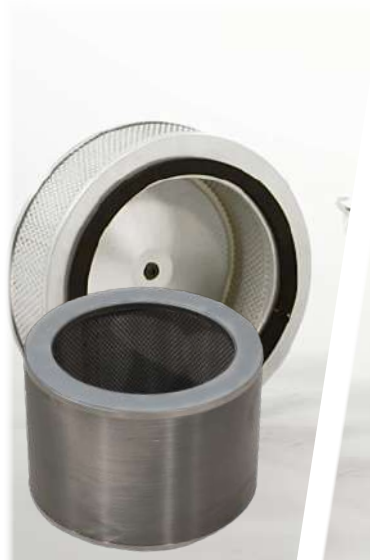
# The importance of filtration

Efficient filtration is essential to avoid contamination of products and production environments, while ensuring production quality and operator safety.

Delfin dry filters are certified by BIA institute and protect the environment and operators' health, even when working with the finest dust microparticles

- Primary filters of **Class M or H \***
- **H14 HEPA** filtration for extremely fine dusts, up to 99,995% of microparticles as small as 0,18 micron
- User friendly and efficient integrated manual or automatic filter cleaning systems
- D.O.P. test report available on request

\*Reference standard IEC / EN 60335-2-69, H14 with individual tracking of the filter



DUST COLLECTORS

VACUUM CLEANERS



### Class M

Filter suitable for fine dust up to 1 micron



### H14 HEPA filter

Suitable for fine dust Efficiency 99.995% at 0.18 microns



**Antistatic filter**  
to avoid build-up of static electricity



**OWR**  
Water-repellent filter to protect the motor



### PTFE

Coated filter class M  
Suitable for sticky powders



### NOMEX

Heat resistant filter up to 180 ° ideal for hot dusts



**Activated carbon**  
Traps and reduces bad odors



### PPL filter

Suitable for 300 or 100 micron oil filtration





# Dust collectors with extraction arm

Mobile dust collectors with powerful electric fans that generate high air flow, with polyester star or cartridge filters, and integrated manual or automatic filter cleaning systems. Suitable for any issue of local extraction of airborne particles generated by spillages, product transfer, packing and loading, or mechanical operations such as grinding, chipping, cutting of light materials.

DUST COLLECTORS

VACUUM CLEANERS



**Electro-fan**  
providing high airflow,  
with integrated silencer



**High efficiency filters**  
available  
in multiple options



Manual or automatic  
**filter cleaning systems**



Optional **extraction arm**  
available

## Optionals



## Features




|                               |                     | EV 420        | EV 500       | EV 560             | EV 560 PN  | EV 560 PN 4kW      |
|-------------------------------|---------------------|---------------|--------------|--------------------|--|--------------------|
| <b>Voltage - Power</b>        | V - kW              | 400 3~   0,75 | 400 3~   2,2 | 400 3~   4         | 400 3~   2,2                                       | 400 3~   4         |
| <b>Nozzle Ø</b>               | mm                  | 100           | 150          | 200   150   120    | 150  | 200   150   120    |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O  | 180           | 280          | 200   300   350    | 280  | 200   300   350    |
| <b>Max air flow</b>           | m <sup>3</sup> /h   | 1000          | 1300         | 2700   1800   1100 | 1300   | 2700   1800   1100 |
| <b>Capacity</b>               | lt                  | 45            | 100          | 100                | 100  | 100                |
| <b>Filter</b>                 | cm <sup>2</sup> -mm | 20.000 - L    | 30.000 - L   | 50.000 - ANT M     | 106.000 ANT M                                      | 106.000 ANT M      |
| <b>Filter Cleaning System</b> |                     | Manual        | Manual       | Manual             | Reverse air pulse automatic filter cleaning system |                    |
| <b>Dimensions</b>             | cm                  | 52x60x180h    | 62x62x220h   | 78x85x250h         | 78x85x250h   | 78x85x250h         |
| <b>Weight</b>                 | kg                  | 60            | 100          | 130                | 125  | 140                |



# Dust Collector Cube

High air flow industrial dust collector for localized or on board suction of fine dust. The large filter cartridges guarantee total filtration of the extracted dust. An extractable container enables quick and easy disposal of the dust.

**Electro-fan**  
capable of generating  
very high air flow values



Filters with very **high**  
**filter surface**



Easy  
**Roll-out**  
container



Optional **extraction arm**  
available



## Features

|                               |                        | CUBE 10         | CUBE 20         | CUBE 40         |
|-------------------------------|------------------------|-----------------|-----------------|-----------------|
| <b>Voltage - Power</b>        | V - kW                 | 400 3~   1,1    | 400 3~   1,5    | 400 3~   3      |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O     | 144 - 121       | 142 - 115       | 270 - 191       |
| <b>Max air flow</b>           | m <sup>3</sup> /h      | 1350 - 2100     | 1350 - 2400     | 2100 - 3800     |
| <b>Filter</b>   IEC60335-2-69 | cm <sup>2</sup> -Class | 100.000 - ANT M | 200.000 - ANT M | 400.000 - ANT M |
| <b>Capacity</b>               | lt                     | 5               | 30              | 90              |
| <b>Noise</b>                  | dB(A)                  | 69              | 70              | 68              |
| <b>Dimensions</b>             | cm                     | 90x80x110h      | 115x82x170h     | 120x110x250h    |
| <b>Cleaning System</b>        |                        |                 | Automatic PN    | Automatic PN    |
| <b>Weight</b>                 | kg                     | 145             | 235             | 350             |

## Optionals



DUST COLLECTORS

VACUUM CLEANERS



# VACUUM CLEANERS FOR FLOOR PREPARATION

FLOOR PREPARATION

VACUUM CLEANERS



Companies working with floor preparation machines (floor grinders, shotblasters, scarifiers, edgers) and hand-tools that generate a large amount of fine and harmful dust, need to remove it constantly and thoroughly, to protect worker's health, comply with regulations and ensure the quality of their work. Fine dust generated by cement, concrete, marble, wood, metal, aluminum, plaster and granite can be harmful if breathed: together with personal protection equipment, contractors must use vacuums to extract dust at source to avoid its dispersion in the environment.



**SAFE COLLECTION OF FINE AND HAZARDOUS DUST**



**HIGH FILTRATION EFFICIENCY**



**COMPACT AND PORTABLE**





# Vacuum cleaners with LONGOPAC® safe bagging system

Compact and powerful vacuum cleaners for fine dust extraction. Equipped with a safe dust bagging system, it enables you to safely vacuum fine, toxic or harmful dust. The telescopic frame system enables you to reduce the height of the vacuum to facilitate transport.



**Single-phase** By-pass motors



Manual filter **cleaning** systems



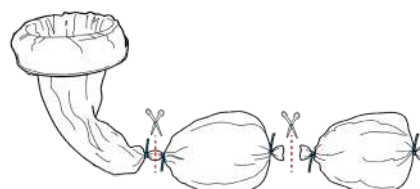
Safe dust collection with **Longopac bag**



Telescopic system to facilitate **transport on vehicles**

## Longopac bagging system.

Longopac is a continuous bag system (20 meters in length) that allows you to adjust the weight and length of the bag as needed, totally preventing contact between the dust and the operator.



## Features

| Dati tecnici        |                      | 202 LP         | DM3 LP         |
|---------------------|----------------------|----------------|----------------|
| Voltage - Power     | V - kW               | 230 1~   2,3   | 230 1~   3,45  |
| Max waterlift       | mmH <sub>2</sub> O   | 2500           | 2500           |
| Max air flow        | m <sup>3</sup> /h    | 360            | 540            |
| Capacity            | lt                   | 20 mt Longopac | 20 mt Longopac |
| Filter              | cm <sup>2</sup> - mm | 30.000 M PTFE  | 30.000 ANT M   |
| Cleaning System     |                      | Dustop         | Manual         |
| Dimensions          | cm                   | 50x48x125h     | 80x66x155h     |
| Transport Dimension | cm                   | 50x48x105h     | 80x66x135h     |
| Weight              | kg                   | 50             | 70             |

## Optionals





# Vacuum cleaners for floor preparation

Powerful vacuum cleaners ideal for use with machines for the extraction of fine dust in floor preparation applications. Equipped with a safe dust bagging system (Longopac), it enables safe recovery and fast disposal of fine and hazardous dust, and increases the autonomy of work.

FLOOR PREPARATION

VACUUM CLEANERS



Wide motor range



High filtration efficiency  
PTFE cartridges



Automatic reverse pulse filter cleaning system



Safe dust collection with Longopac bag



## Automatic filter cleaning PN

An air tank loaded by a dry maintenance free compressor blows a 6 bar air jet inside the filter cartridges, detaching the deposited dust. The timing of filter cleaning is adjustable



## Optionals



## Features



|                      |                      | XTRACTOR 3BP                                   | XTRACTOR 2BL | XTRACTOR 75 AF | XTRACTOR 55      |
|----------------------|----------------------|--|--------------|----------------|------------------|
| Voltage - Power      | V - kW               | 230 1~   3,45                                  | 230 1~   2,2 | 400 1~   7,45  | 400 1~   7,45    |
| Max waterlift        | mmH <sub>2</sub> O   | 2500   | 2500         | 4000/2700      | 550              |
| Max air flow         | m <sup>3</sup> /h    | 540  | 430          | 700            | 1600             |
| Capacity             | mt Longopac          | 20   | 20           | 100/ 20        | 20               |
| Filter               | cm <sup>2</sup> - mm | 57.000 M PTFE                                  | 57.000 ANT M | 80.000 M PTFE  | Polyester M PTFE |
| Cleaning System      |                      | Automatic reverse pulse filter cleaning system |              |                |                  |
| Dimensions           | cm                   | 65x91x190h                                     | 65x91x198h   | 78x127x178h    | 86x190x161h      |
| Transport Dimensions | cm                   | 65x91x164h                                     | 65x91x172h   | =              | =                |
| Weight               | kg                   | 140  | 145          | 215            | 450              |





# TÜV certified vacuum cleaners

TUV vacuum cleaners have obtained the certification for dust extraction in total safety from the independent certification body TUV SUD. The certification covers the entire machine with specific filters and accessories included and guarantees the quality of filtration even in presence of very fine dust.



**Wide range**  
of motors



**Class M or M + H**  
filtration included



Suction **accessories**  
**kit included**



**TÜV SUD**  
Certification



**Do you need to vacuum asbestos?**  
**Try the DG 50 EX ASBESTOS !**

Industrial vacuum cleaner certified for asbestos removal. Dust filtration in Class M and H with HEPA filters, discharge of clean air outside the environment and bags specifically designed for the containment and remediation of asbestos.



## Features



|                               |                      | 301 DUST TUV   | 202 TUV      | DM3 TUV       | DG EXP TUV |
|-------------------------------|----------------------|--|--------------|---------------|------------|
| <b>Voltage - Power</b>        | V - kW               | 230 1~   1,15  | 230 1~   2,3 | 230 1~   3,45 | 230 1~   4 |
| <b>Max waterlift</b>          | mmH <sub>2</sub> O   | 2500   | 2500         | 2500          | 3200/2700  |
| <b>Max air flow</b>           | m <sup>3</sup> /h    | 180  | 360          | 540           | 420        |
| <b>Capacity</b>               | lt                   | 13   | 20           | 100           | 100        |
| <b>Filter M</b>               | cm <sup>2</sup> - mm | 6.000 - M  | 30.000 - M   | 30.000 - M    | 30.000 - M |
| <b>Filter M</b>               | cm <sup>2</sup>      | M - 6.000  | M - 30.000   | M - 30.000    | M - 30.000 |
| <b>Filter H</b>               |                      | H - 20.500   | H - 20.500   | H - 26.500    | H - 26.500 |
| <b>Cleaning System</b>        |                      | Dustop   | Dustop       | Manual        | Manual     |
| <b>Accessory kit included</b> |                      | Connector 3 m hose cuff - 1 collection bag - 1 bag holder ring |              |               |            |
| <b>Weight</b>                 | kg                   | 25   | 35           | 85            | 137        |





# INDUSTRIAL VACUUM SYSTEMS WITH HIGH PERFORMANCE LOBE PUMPS

HIGH VACUUM

VACUUM CLEANERS



Cement factories, foundries, steel mills, incinerators and power plants require powerful and effective cleaning systems to maintain maximum production efficiency and high safety standards.

Delfin industrial vacuum systems of the DHV series are the ideal solution for maintenance and cleaning work in heavy industry. DHV vacuum cleaners make it easy and safe to remove and handle large quantities of dusty and solid material



**DESIGNED FOR INTENSIVE USE**



**MAXIMUM SUCTION PERFORMANCE AND RELIABILITY**



**GREAT COLLECTION CAPACITY AND SIMPLICITY OF HANDLING OF THE COLLECTED MATERIAL**

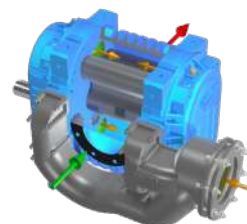




## MAXIMUM POWER AND RELIABILITY

### Lobe pumps for high vacuum

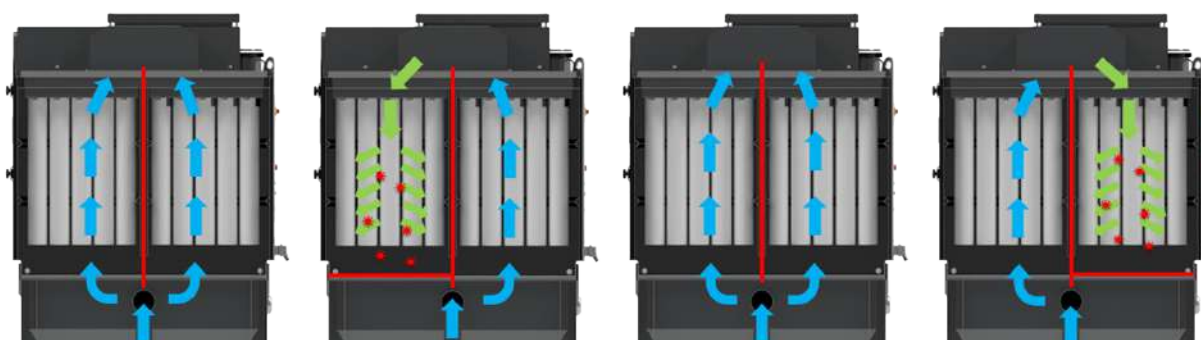
The self-cooled pump guarantees the achievement of very high vacuum values and Max air flow



## CONTINUOUS AND EFFICIENT FILTERING SYSTEMS

### High filtration efficiency

The suction unit is always protected by polyester filters and Class M safety cartridges, for dust as small as 1 micron. Maximum filtration efficiency thanks to an automatic alternating chamber filter cleaning system.



## SIMPLE HANDLING OF THE MATERIAL

### Easy and safe

DHV vacuum cleaners are equipped with detachable containers that can be easily moved by means of a forklift, guaranteeing maximum simplicity and safety of use. The material is unloaded thanks to the activation of safety bars



## Features

|                 |                    | DHV<br>22CP  | DHV<br>30AF  | DHV<br>30HV  | DHV<br>45AF  | DHV<br>45HV  | CVC WITH<br>FILTERING SEP    |
|-----------------|--------------------|--------------|--------------|--------------|--------------|--------------|------------------------------|
| Voltage - Power | V - kW             | 400 3~   22  | 400 3~   30  | 400 3~   30  | 400 3~   45  | 400 3~   45  | 400 3~   30/45               |
| Max waterlift   | mmH <sub>2</sub> O | 5.000        | 5.000        | 8.500        | 5.000        | 8.500        | 5.000 - 8.500                |
| Max air flow    | m <sup>3</sup> /h  | 1.300        | 1.800        | 1.300        | 2.500        | 1.900        | 1.300-2.500                  |
| Main Filter     | cm <sup>2</sup>    | 70.000       | 160.000      | 160.000      | 160.000      | 160.000      | 70.000-160.000               |
| Safety filter   | cm <sup>2</sup>    | 40.000       | 70.000       | 70.000       | 70.000       | 70.000       | 40.000-70.000                |
| Dimensions      | cm                 | 160x152x253h | 168x160x291h | 168x160x291h | 168x160x356h | 168x160x356h | 114x124x147h<br>144x144x312h |
| Weight          | kg                 | 1260         | 2080         | 2100         | 2310         | 2260         |                              |





# CENTRALIZED VACUUM SYSTEMS

Delfin centralized vacuum systems allow to vacuum materials even at a great distance, or in several places simultaneously, based on the power and features of the suction unit and specific working conditions.

CENTRALIZED SYSTEMS



**COMPLETE SYSTEM DESIGN**



**MAXIMUM EFFICIENCY OF THE PRODUCTION PLANTS**



**CLEANING OF THE ENTIRE WORKING ENVIRONMENT, REDUCING MOBILE EQUIPMENT AND NOISE LEVEL**

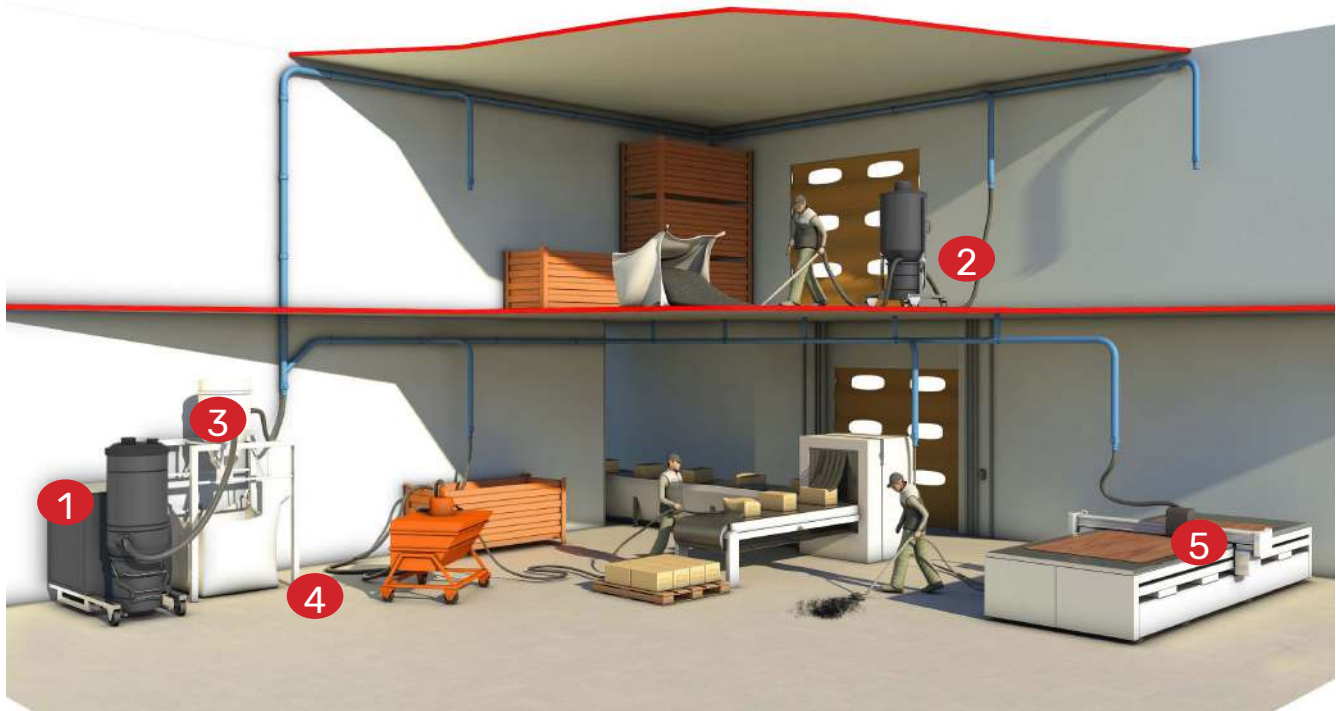






## Tailor-made solutions

A centralized suction system allows you to remove and transport material from one area to another through a series of fixed pipes and to accumulate and discharge them at a specific point. It improves efficiency and allows you to suck in several points simultaneously



- 1 Suction unit
- 2 Preseparator
- 3 Filter unit
- 4 Collection point
- 5 Connection to machinery

### Suction unit



### Filtration unit



### Components



# Preseparators

## Additional systems to protect the suction unit and increase working capacity

Vacuuming or moving large quantities of dusty or solid material is not an easy operation. The solution is an industrial vacuum cleaner combined with a wheeled separator. Through this combination it is possible to significantly increase the autonomy of the vacuum and at the same time to obtain greater efficiency of the material collection process.

### PRE-SEPARATORS

Pre-separators to increase capacity up to 1000 liters



Pre-separators with Longopac safe collection bag



Water pre-separators for hot material



Pre-separator lids



Wheeled pre-separators



Pre-separators for explosive dusts



# Accessories and Optionals



## Accessories range

Delfin supplies a wide range of original accessories that allow you to get the most out of your industrial vacuum cleaners. The accessories are available in different materials, to be used in any type of application and industry.

### General cleaning



### Oil and chips



### Oven cleaning



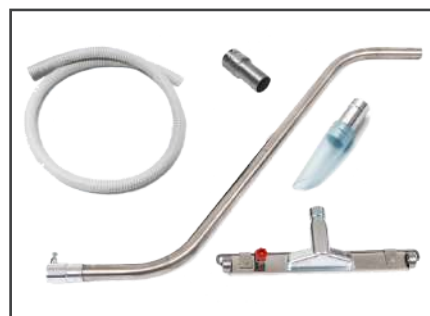
### High spots cleaning



### Stainless steel accessories



### Autoclavable





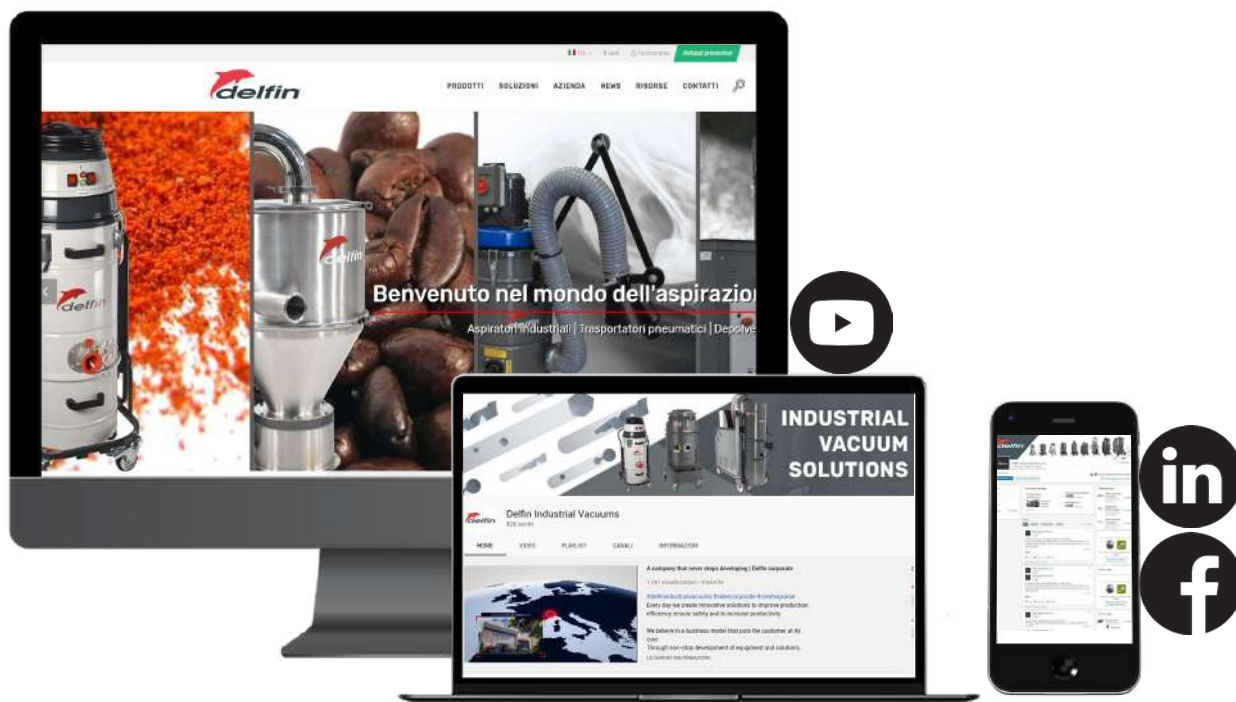
# DELFIN

## CREATING VALUE

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