



INDUSTRIAL VACUUM SOLUTIONS FOR

Combustible Dust



DELFIN
FOR A DUST-FREE WORLD

A person wearing a full-body protective suit, including a hood and a respirator mask with a circular filter, is using a spray gun. The person is wearing gloves and is holding the spray gun with both hands. The background is dark and out of focus.

**The global
specialized
for dust
management
across
all industries**

Our goal: Your safety

*The vast majority of manufacturing and production processes involve the generation or handling of hazardous dust, powders and other materials that represent a threat to the environment and the operators' health and safety in the workplace.
For over thirty years, Delfin has developed innovative solutions for cleaning and extracting hazardous particles to make the work environment safer.*

DELFIN
FOR A DUST-FREE WORLD

COMBUSTIBLE DUST HAZARDS ACROSS DIFFERENT INDUSTRIAL SECTORS AND APPLICATIONS

There are several definitions, classifications and technical standards clarifying when and to what degree a specific dust is combustible; a general and unanimously agreed upon condition to classify as combustible a specific dust resulting from a manufacturing process, is that its average size should be lower than 500 micron.



Areas with high risk of explosion, due to the manipulation or production of combustible dust, include silos and work zones for the drying, milling, and refining of raw materials.



Various machining processes in the metalworking and wood sector generate dangerous powders, particularly during sanding, grinding, drilling, cutting, satin finishing, and varnishing phases.



Transformation of chemical and pharmaceutical raw materials includes activities such as granulation, milling, compressing, coating, tableting, and packaging of potent powders or hazardous substances.

INDUSTRIAL PROCESSES

This is the result of testing carried out on more than 7.000 sample of multiple particles from materials in almost all industrial manufacturing processes. Areas classified as subject to high risk of explosion, are those where production or handling of large quantities of dust result into a high concentration of combustible materials. Those areas include silos and production (drying, milling, refining of raw ingredients).



In the oil & gas, power plants and mining industries, higher level of risk are common due to accidental leaks or spillages, or frequent presence of combustible residues.

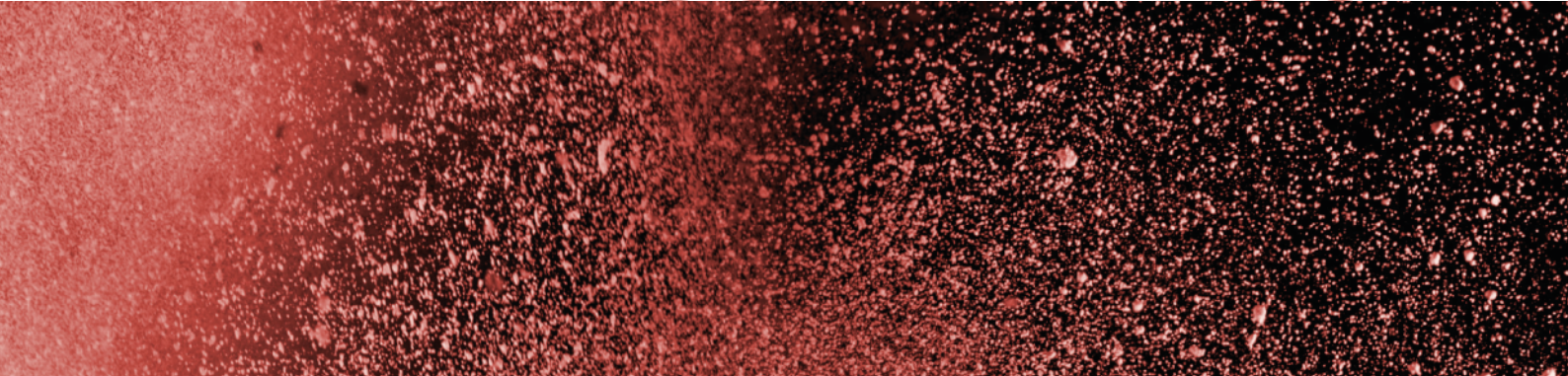


Explosive powders can be generated during the transportation and storage of plastic or rubber granules. The risk is higher in areas such as milling operations, powder storage and separation systems



The evolution of production processes through innovation generates new requirements related to handling and extracting combustible dust: in additive manufacturing polymer and metal powders need to be loaded into printers, extracted from the building chamber and cleaned out of finished parts.

AND COMBUSTIBLE DUST





ACD INDUSTRIAL VACUUM CLEANERS

COMBUSTIBLE DUST COLLECTION IN ORDINARY / NON ATEX CLASSIFIED LOCATIONS

- Vacuum cleaners tested and certified by third party as zone 20 internal (Ex 1/ - D) compliant
- Two stages filtration (class M + H14 / HEPA efficiency) for double protection against penetration of dust inside the motor head
- Integrated AISI304 stainless steel container; optional endless bag for continuous disposal and inert system for highly reactive powders available.



ATEX 22/21/20 - BRUSHLESS MOTOR VERSION - POWERHEAD EX TB

POWDERS, SOLIDS OR LIQUIDS COLLECTION

- Industrial vacuum cleaners certified by third party for ATEX zone 20 internal (Ex 1/ - D) and for ATEX zone 22 or 21 external
- Brushless motor version, maintenance free, available for continuous use
- Two stages filtration (class M + H14 / HEPA efficiency) for double protection against penetration of dust inside the motor head
- Integrated AISI304 stainless steel container; wide range of options (full stainless steel construction, PTFE filtration) available
- IECEx/ NFPA DIV.1 - 2 versions also available



ATEX 22/21/20 - THREE-PHASE VACUUMS

HEAVY DUTY APPLICATIONS 24/24H IN ATEX CLASSIFIED AREAS

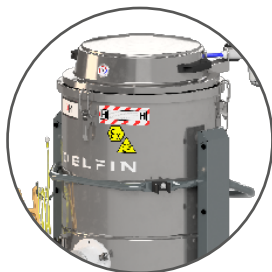
- Three-phase industrial vacuum cleaners certified by third party for ATEX zone 20 internal and for ATEX zone 22 or 21 external
- Two stages filtration level for double protection with HEPA efficiency
- Wide range of options with AISI304 stainless steel and automatic filter cleaning systems ATEX compliant
- Maintenance free high performance vacuum unit up to 18.5 kW for heavy applications and non stop duty
- IECEx/ NFPA DIV.1 - 2 versions also available
- ATEX Side channel blower and control box produced by Delfin, both 2D certified by third party.



INERT SOLUTIONS FOR CONDUCTIVE / REACTIVE POWDERS (ATEX)

CONDUCTIVE AND SELF IGNITING POWDERS COLLECTION

- The INERT collection system designed by Delfin enables to neutralize >95% the risk of explosion when collecting self-igniting, highly combustible powders, that are rendered harmless by being vacuumed into the inertizing liquid inside the collection container.
- Certified by third party for zone 20 internal, and zone 22 or 21 external



ATEX & IECEx CERTIFIED COMPRESSED AIR-OPERATED VACUUMS

COMBUSTIBLE DUST AND FLAMMABLE GAS PRESENCE

- Suitable to work in Zone 1 and 2 with presence of flammable gas
- Air-powered industrial vacuums certified by third party, zone 20 inside and external zone 22 or 21, suitable for simultaneous presence of combustible dust and flammable gas
- Specific models available for Hydrogen or class IIC GAS



ATEX DUST COLLECTORS

The main function of an industrial dust collector is to extract at the source airborne dust and particles; they can be used with mobile extraction arms or directly connected for extraction on production machinery.

Their ATEX certified version are highly popular and requested in the food, chemical, pharmaceutical and additive manufacturing/3D printing industries.

- Certified by third party for zone 20 internal ACD (Ex 1/ - D), and 1/3D for zone 22 external.



PNEUMATIC CONVEYORS

Delfin pneumatic conveyors use vacuum technology to transport powders and solids with high efficiency and precision, optimizing both performance and energy consumption. Available with advanced ATEX certification, they can operate in gas-tight mode with inert gases (e.g., nitrogen) and feature ATEX valves, sensors, vibration monitoring, automatic cleaning, and SIL systems for intrinsic safety. Custom projects are designed with specialized engineering and support from certified Ex consultants



CENTRALISED VACUUM SYSTEM

Delfin designs and supplies turnkey centralized vacuum solutions for efficient cleaning and maintenance across large plants. A powerful suction unit, with collection system, filter separators, and fixed piping, maximizes performance, reduces equipment costs, and ensures safe transport of collected material. 2D ATEX-certified IE3 side channel blowers and control panels suitable for Zone 22 and Zone 21. Certified valves, sensors, discharge units, protection and control systems ensure safety and compliance throughout the installation and full automation.

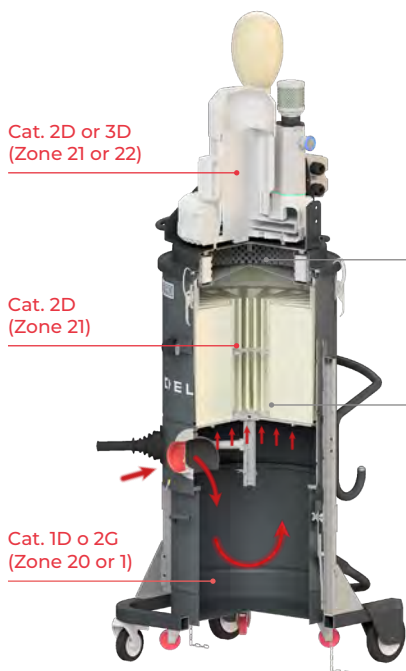


DHV

The DHV range has been specifically designed to meet the cleaning and maintenance demands of the heaviest industries, such as cement, steel, power plants, glass, and agrifood. Built with ATEX-certified components, they are the natural choice for handling large quantities of material over long distances. The DHV systems are suitable for combustible dust and flammable gases, and can be customized for high-risk, high-complexity, or high-performance projects, ensuring safe, efficient, and reliable operation even in the most demanding environments.

The New Standard EN 17348:2022

The European standard UNI EN 17348:2022, harmonized with the ATEX and Machinery Directives, defines the requirements for design, construction, testing, and marking of hand-held, portable, and transportable vacuum cleaners and systems, including accessories, intended for collecting combustible or non-combustible dusts and flammable or non-flammable liquids in potentially explosive atmospheres.



New Filtration Barriers Concept: INTERNAL MARKING CATEGORY FOR ZONE 20

Filtration Level 2

HEPA filter Group H, minimum efficiency 99.95%. Installed downstream of the main filter as a backup in case of damage, it ensures safe operation with Category 3D power systems or components exposed to airflow.

Filtration Level 1

Main filter ISO 15E – minimum efficiency 95%. Installed inside the collection tank, it prevents most collected material from reaching the power system and ensures filtration suitable for Category 2D equipment downstream.

Presence of Flammable Gas

If present in the atmosphere in the working environment, explosive gas will typically not be filtered or affected by the dust filter. Filtration efficiency measurement standard ISO 29463:2018

Delfin Knowhow

Manufacturers of ATEX vacuum cleaners must comply with evolving safety standards and work with certification bodies to ensure proper use and user protection. Delfin's Engineering and Regulatory teams develop safe, efficient solutions backed by over 30 years of experience and third-party certifications.

Ex "t" Dust Ignition Protection Method

Delfin enclosures are fully protected against dust ingress, preventing any contact between dust and internal components. This protection is validated by accredited institutes through specific tests:

- **Thermal and humidity** conditioning to simulate aging, with temperatures set according to ATEX categories.
- **Mechanical stress** tests on critical parts and openings to simulate real use and misuse.
- **IP testing** with fine dust projected from all directions under internal underpressure.

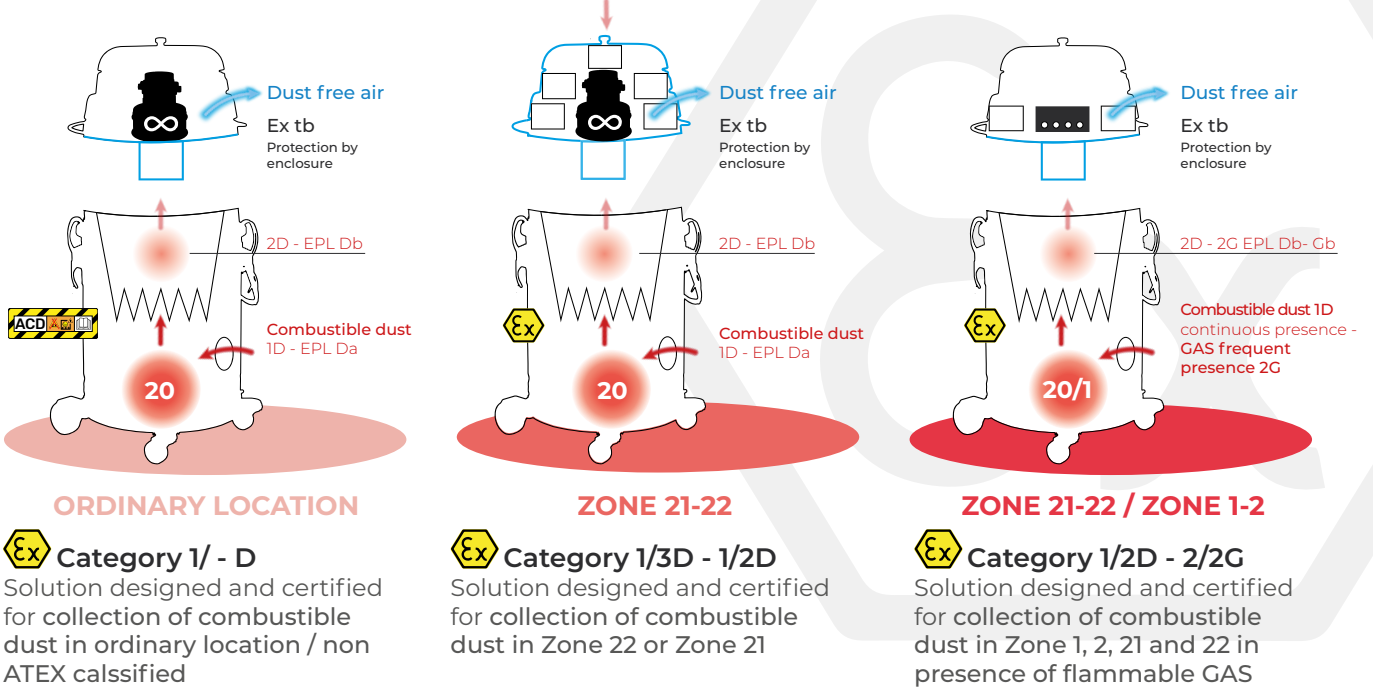
Only if no dust enters the enclosure can it be certified IP6X, in compliance with ATEX requirements.

ZONING		EQUIPMENT PROTECTION		
Gas	Dust	Atex Category	Equipment Protection Levels	Dust Ignition Protection
0		1 G	Ga	
	20	1 D	Da	Ex ta
1		2 G	Gb	
	21	2 D	Db	Ex tb
2		3 G	Gc	
	22	3 D	Dc	Ex tc



DELFIN EX 3RD PARTY CERTIFIED

Dust Type protection by Delfin, the only one solution to grant free air exhaust



The 3 ATEX Types

UNI EN 17348:2022 classifies ATEX vacuum cleaners into three types based on the materials they are designed to collect. Equipment selection must consider the application, properties of flammable substances, and external influences.

Marking and warning labels in compliance with the new standard

CE Ex 1/2D EX h tb IIIC T80°C (Internal) / T95°C (External) Da/Db



Delfin vacuum cleaners are designed for the collection of **dry dust of all types, combustible or non-combustible**, in any mix except where self-heating dust and/or chemical aggressive substances result from the mixing. These solutions achieve **filtration level 1 with an efficiency of 99,9% and level 2 of 99,995%**.



Wet type dust collectors are designed to efficiently **precipitate and neutralize the collected combustible dust**, including hot particles, or self-heating dust which otherwise can act as a source of ignition. This solution was tested according to the new standard to grant **less than 5 % dust weight collected in the coalescing + HEPA filter**.



Solutions designed for the **collection in ATEX zones of liquids non-flammable**. A mechanical system grants the suction cut-off when the tank is full. Delfin's dual-use solutions, with the appropriate filtration kit, allow the same vacuum unit to operate either as a dry-type system or as a liquid collector, depending on application needs.

All Delfin mobile solutions for Zone 22 are also compliant with the **EN IEC 62784:2018** standard.



Our range of solutions covers worldwide requirements for all countries with third party certification of notified bodies, in detail:
 · EU-TYPE EXAMINATION CERTIFICATE FOR ATEX IN EUROPE
 · AUTHORIZATION TO MARK RECOGNISED FOR NORTH AMERICA
 · CERTIFICATE OF CONFORMITY COC FOR IECEX INTERNATIONALLY

SCAN
HERE AND
DISCOVER
MORE!



Unique Features on ATEX Models

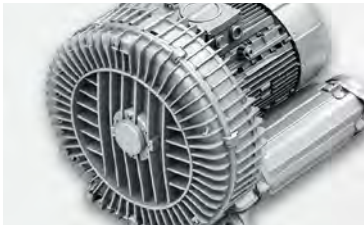
Delfin Dust Tight protection method

All electrical parts are protected by fully sealed enclosures, designed to prevent dust ingress even after aging, thermal stress, and mechanical impact tests performed in accredited laboratories according to current ATEX standards.



Ex tb Single Phase Powerhead

Third-party ATEX certified single-phase powerheads for both Zone 22 and 21. With dust protection marking Ex tb, ATEX Category 2D, and IECEx EPL Db, it ensures one of the highest safety standards available worldwide.



Ex tb Side Channel Blowers

Extended range of ATEX side channel blowers (0.4 to 25 kW), IE3 efficiency class and certified by accredited third-party. Designed to optimize the performance-to-energy ratio, suitable for ATEX Zone 22 with Ex tc marking, Category 3D, with options for Dust Category 2D and ATEX GAS zones.

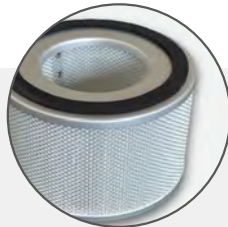


Ex tb Control Box

ATEX control box for three-phase vacuum systems operating in Zone 22 and 21, leveraging its in-house expertise in automation and power control. Built for industrial durability, it features dust ignition protection marking Ex tb, ATEX Category 2D.



HIGH PERFORMANCE STATIC DISSIPATIVE MAIN FILTER



INDIVIDUALLY TESTED HEPA FILTERS AS ESSENTIAL ELEMENT FOR SAFETY



ANTISTATIC RUBBER SPARKS PROOF DEFLECTOR

BEYOND COMPLIANCE
CERTIFIED TO PROTECT
ENGINEERED TO LAST.





Double stage filtration

Two-stage filtration for combustible dust: a dissipative Class M primary filter (99.9%) protects the internal Zone 20, while a HEPA H14 filter (>99.995%) ensures maximum safety and clean air emission. The main filter is tested for burst and collapse resistance per EN 17348, with electrical resistance below $10^8 \Omega$.



Neutralization systems for reactive or self-igniting dust

Dedicated solutions for safe handling of reactive or self-igniting dust, including conductive dust or dust with low Minimum Ignition Energy (MIE). Systems tested in accredited laboratories in accordance with EN 17348 for immersion-based neutralization with $\geq 95\%$ efficiency and $\leq 2\%$ evaporation.



ATEX-certified design, construction and components

Stainless steel or conductive-coated structures ensure electrical continuity and static dissipation. Antistatic components guarantee full grounding, while ATEX-certified filter cleaning systems and integrated sensors enable continuous monitoring of performance and operating conditions.



DUST SEALED COVER UV AND THERMAL ENDURANCE RESISTANT



ACCESSORIES, TOOLS AND NON-METALLIC PARTS



CLOGGING FILTER INDICATOR LIGHT AND VACUUM GAUGE 2D ATEX CONTROL PANEL

The New ACD Label

The ACD safety label was introduced with the new international product standard IEC 60335-2-69 for vacuum cleaner systems, published in 2021. This classification is aimed at increasing the safety level in non-ATEX areas, i.e. ordinary locations where however there is a need to collect combustible dust.

Ex II 1/-D Ex h IIIC T80°C (internal) Da/-

In many industrial settings, areas with dust may not require ATEX certification if dust is contained and cleaned regularly. Delfin's vacuum systems prevent dust dispersion by collecting it directly from machines or emission points. Beyond the ACD label, Delfin certifies the internal components of its solutions as **Category 1/-** through a third-party body. These dust collectors are Zone 20 certified, ensuring higher safety standards than ordinary vacuums, even when ATEX isn't mandatory.

Designed to prevent ignition sources and safely contain combustible dust, ensuring workplace and worker safety.



Single Phase Range



MTL 301 1/2D	MTL 801 1/3D	MTL 201 1/3D	MTL 451 1/2D	DM2 1/2D	DM2 EL 1/2D LP
230 V - 1,1 kW	230 V - 1,1 kW	230 V - 1,1 kW	230 V - 1,1 kW	230 V - 2,2 kW	230 V - 2,2 kW
40 lt	80 lt	20 lt	45 lt	100 lt	endless bag
I/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db	II 1/3D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Dc	II 1/3D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/D	II 1/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db	II 1/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db	II 1/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db

Three Phase Range



ZFR EL TR 1/3D	MTL 4535 1/3D	DG 50 EXP 1/2D	DG VL 125 1/3D	DG 70 EXP PN
400 V - 3,45 kW	400 V - 4,6 kW	400 V - 4 kW	400 V - 18,5 kW	400 V - 6,3 kW
60 lt	45 lt	100 lt	160 lt	100 lt
II 1/3D Ex h tb IIIC T135°C (Int) / T195°C (ext) Da/Dc	II 1/3D Ex h tb IIIC T135°C (Int) / T195°C (ext) Da/Dc	II 1/2D Ex h tb IIIC T135°C (Int) / T195°C (ext) Da/Db	II 1/3D Ex h tb IIIC T135°C (Int) / T195°C (ext) Da/Dc	II 1/3D Ex h tb IIIC T135°C (Int) / T195°C (ext) Da/Dc

Wet systems available in all sizes for collection of conductive, sensitive or self igniting dusts.

Airex Range



452 AIREX 1/2D-2/2G	802 WD AIREX 1/2D-2/2G	DM AIREX 1/2D-2/2G
7/14 Venturi	7/14 Venturi	19/25 Venturi
45 lt	80 lt	100 lt
II 1/2D Ex h IIIC T85°C Da/Db - II 2/2G Ex h IIB T6 Gb/Gb	II 1/2D Ex h IIIC T85°C Da/Db - II 2/2G Ex h IIB T6 Gb/Gb	II 1/2D Ex h IIIC T85°C Da/Db - II 2/2G Ex h IIB T6 Gb/Gb

Dust Collectors



ZFR CUBE PN ACD	ZFR EV AP 560 1/3D
400 V - 2,2 kW	400 V - 0,75 kW
90 lt	100 lt
II 1/-D Ex h IIIC T100°C (inter- nal) Da / -	II 1/3D Ex h IIIC T100°C (int) / T135°C (ext) Da/Dc

Pharma Food Packaging Range



PHARMA 40.40 DC 1/3D	PHARMA 20.18 1/2D	PHARMA 40.40 1/3D	DBFV 10 1/3D	DBF 10 1/3D
400 V - 4,6 kW	400 V - 2,5 kW	400 V - 3,45 kW	400 V - 0,95 kW	400 V - 0,95 kW
25 lt	22 lt	42 lt	15 lt	15 lt
II 1/3D Ex h tb IIIC T135°C (Int) /T195°C (ext) Da/Dc	II 1/2D Ex h tb IIIC T135°C (Int) /T195°C (ext) Da/Db	II 1/3D Ex h tb IIIC T135°C (Int) /T195°C (ext) Da/Dc	II 1/3D Ex h tb IIIC T135°C (Int) /T195°C (ext) Da/Dc	II 1/3D Ex h tb IIIC T135°C (Int) /T195°C (ext) Da/Dc

Inert Range

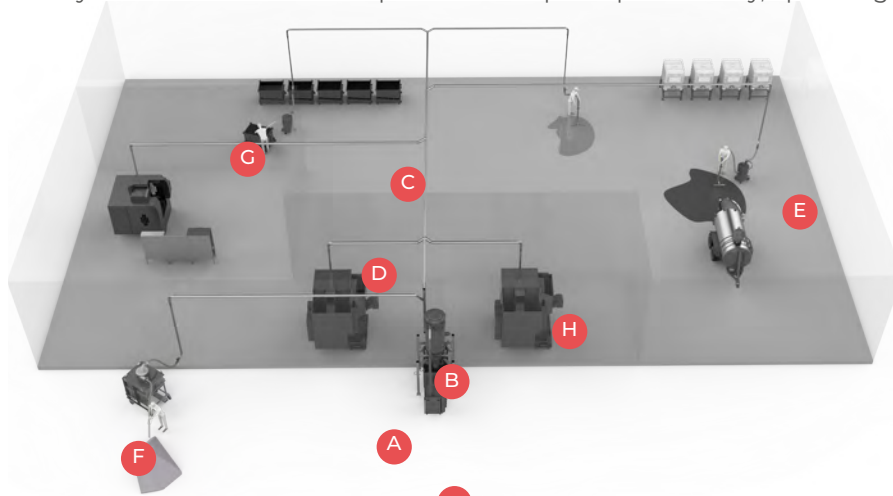


ZFR EV 560 INERT1/3D	MTL 451 INERT 1/2D	ZFR 75 INERT 1/3D	DM2 INERT 1/2D	DM AIREX INERT 1/2D-2/2G
400 V - 2,2 kW	230 V - 1,1 kW	400 V - 3,45 kW	230 V - 2,2 kW	19/25 Venturi
27 lt - Inert liquid / up to 44 lt	10 lt - Inert liquid / up to 15 lt	37 lt - Inert liquid / up to 44 lt	37 lt - Inert liquid / up to 44 lt	37 lt - Inert liquid / up to 44 lt
II 1/3D Ex h IIIC T100°C (int) / T135°C (ext) Da/Dc	II 1/2D Ex h tb IIIC T80°C (Int) /T95°C (ext) Da/Db	II 1/3D Ex h tb IIIC T135°C (Int) / T195°C (ext) Da/Dc	II 1/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db	II 1/2D Ex h IIIC T85°C Da/Db - II 2/2G Ex h IIB T6 Gb/Gb

A WHOLE WORLD OF OPTIONS AND SOLUTIONS

ATEX centralized vacuum systems

When it is necessary to vacuum in large work environments, with large distances to cover and utilizing several suction points simultaneously, a centralized vacuum system represents the most effective solution. The system allows the safe collection of material from different points of the production plant, including machinery integrated in the production process. Such material can be easily gathered in a single point of the facility for easy disposal or recovery. The vacuum systems therefore make it possible to improve productivity, operating conditions and safety standards.



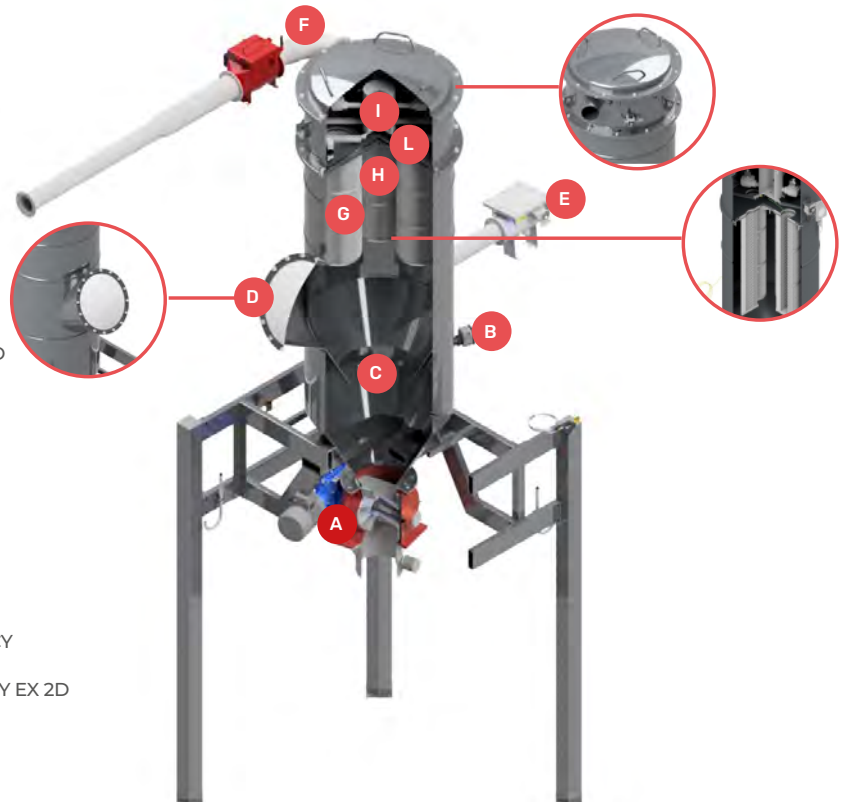
- A** SUCTION UNIT
- B** FILTER UNIT WITH HOPPER AND BIG BAG DISCHARGE
- C** PIPING
- D** SUCTION SOCKET FOR ACCESSORIES
- E** PRESEPARATOR WITH LIQUIDS WITH FLOATING DEVICE
- F** PRESEPARATOR FOR LARGE QUANTITIES OF MATERIAL
- G** PRESEPARATOR WITH WATER FOR HIGH TEMPERATURE MATERIALS
- H** SUCTION ON PROCESS EQUIPMENT

Double level of filtration explosion resistant vacuum system

Delfin, through its technical department, and long experience in the design, manufacture and installation of ATEX-compliant systems, develops and offers state-of-the-art solutions to meet the countless needs of industrial processes. All our centralized filtration systems are provided with dual filtration levels. Specialized design to grant containment of continuous combustible dust cloud internally.

Can be connected with a standard suction unit if installed in ordinary location.

Our system of filtration is designed to guarantee HEPA efficiency downstream and to ensure a secondary protection filter.



- A** FLAME PROOF ROTARY VALVE CATEGORY EX 1/3D
- B** LEVEL SENSOR EX 1/3D
- C** ZONE 20
- D** VENTING PANEL FOR EXPLOSION CONVEYING
- E** EXPLOSION RESISTANT NON RETURN VALVE
- F** PARTITION VALVE
- G** MAIN FILTRATION - LEVEL ONE - 99,9% EFFICIENCY
- H** AUTOMATIC FILTER CLEANING SYSTEM CATEGORY EX 2D
- I** HEPA FILTER 99,995% - FILTRATION LEVEL 2
- L** EXPLOSION RESISTANT FLANGED HOPPER

Combustible Dust Properties and Explosiveness Parameters

These are the main parameters that define the dust level of danger

- **P_{max}** (Maximum explosion pressure) bar
- **K_{st}** (Deflagration constant) bar*m/s
- **St** (Explosion class)
- **MIE** (Minimum ignition energy) mJ
- **MIT** (Minimum cloud ignition temperature) °C
- **LIT** (Ignition temperature of the 5 mm layer) °C
- **LEL** (Lower Explosive Limit) g/M³

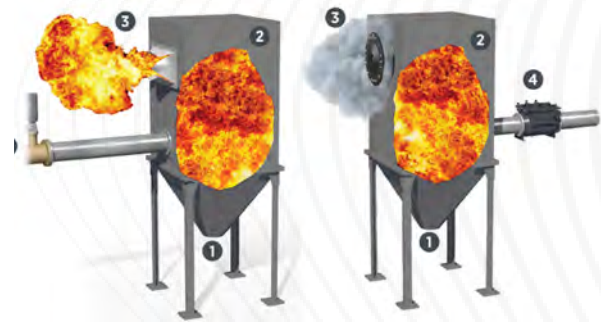
Thanks to these parameters, it will be possible to carry out the calculation report for the filter separator and also to dimension the characteristics of the following explosion management system, non prevention system:

- **Prevention systems**
- **Protection systems**
- **Isolation systems**
- **Suppression systems**

Delfin solution to manage explosion in centralized systems

PROTECTION SYSTEMS IN THE FILTER

Explosion venting systems open at a set pressure to safely release pressure and flames. Integrated into the hopper filtration chamber, they are easy to install, highly efficient, and available in various sizes and configurations, including flameless versions.



ISOLATION SYSTEMS

Isolation systems detect explosions and prevent deflagration from propagating between connected equipment, and must be used with a protection system. Mechanical isolation can be active (Quick Slide Valve) or passive (Flap Valve), both providing an effective barrier.



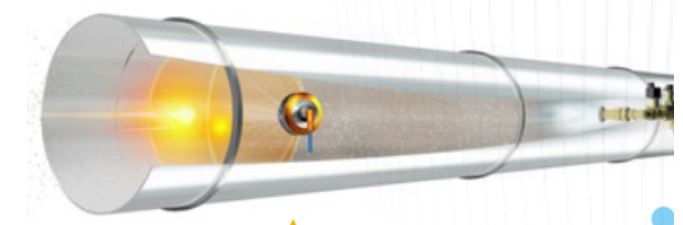
FILTER SUPPRESSION SYSTEMS

Within milliseconds, the system detects pressure build-up and releases suppressant before destructive levels are reached. It interrupts the reaction by removing heat from the flame and creating a barrier between particles, stopping combustion.



PRE-FILTER PREVENTION AND SHUTDOWN SYSTEMS

Spark detection and extinguishing systems prevent dust explosions by detecting and automatically extinguishing sparks. They use minimal water (~1.3 gallons), without damaging filters or machinery, and reset automatically after intervention. Suitable for industries such as wood, bioenergy, recycling, paper, food, textiles, and plastics.



ATEX pneumatic conveyors by Delfin



Pneumatic conveyors is a system widely used in the food, agri-food, nutraceutical, pharmaceutical and chemical industries. These systems allow the transfer, through closed/hermetic pipes, of bulk materials in powder or granule form, from one starting point to another, eliminating the risk of contamination and dispersion of dusts.

The passage of a gaseous flow inside the pipes creates a (negative) pressure difference that allows the material to move forward. The gas commonly used is air, but in industrial sectors such as the chemical and pharmaceutical sectors, nitrogen is often required because, being inert, it is the ideal choice with potentially explosive materials.

The use of suitable conveyor systems for handling powders between the different processing machines can make all the difference in the quality of the final product and in the safety of the working environment.

Pneumatic conveyors are used in many types of industries and their use can increase productivity by up to 30% and the efficiency of the automatic machines on which they are installed, more than reduce the risk of explosion.



Features:

- FULL CUSTOMIZATION AND PROGRAMMING SERVICE
- EX ELECTRICAL PANEL WITH CONTROLS SETTING DISPLAY
- AUTOMATIC FILTER CLEANING SYSTEM
- TWO LEVELS OF FILTRATIONS WITH HEPA EFFICIENCY
- MANUAL OR AUTOMATIC LOADING PICK UP
- COUNTERWEIGHT FLAP, BUTTERFLY OR CLAPET DISCHARGE SYSTEMS
- ATEX VALVES AND SENSORS FOR SAFETY MANAGEMENT
- ATEX VIBRATION SYSTEMS
- AISI 304 STAINLESS STEEL & FDA COMPLIANCE
- INTERNAL MIRROR FINISHING

Choosing the perfect Industrial Solution

Making the right choice of an industrial vacuum cleaner, pneumatic conveying, or plant engineering solution customized to your specific production needs is fundamental to ensuring a workplace prioritizing safety, health, and maintenance with best performance. The decision hinges primarily on factors such as the type of application, handled material, operating hours, and production plant features.

Delfin's Engineering team is available to design and propose the best suitable solution:

1- MODELS READY & AVAILABLE FOR A VARIETY OF CLEANING NEEDS

2- CUSTOMIZED VACUUM CLEANER SYSTEMS FOR YOUR SPECIFIC APPLICATION

3- LARGER CENTRALIZED VACUUM SYSTEMS DESIGNED FOR YOUR PROJECT REQUIREMENTS

4- PNEUMATIC CONVEYORS TO INCREASE PRODUCTION SAFETY AND EFFICIENCY

According to your unique needs, our experts will guide you towards the best customized solution. Our application questionnaire will provide all the information and technical features necessary to work on your project. Let's find your next Delfin Industrial perfect solution together!

LET OUR EXPERTS ASSIST YOU IN
ACHIEVING YOUR GOALS!

CONTACT US TO GET THE FORM!
delfin@delfinvacuums.it



Explosion-Proof

**Understanding the
Rules and Achieving
Compliance**

Delfin is an Italian company that started as a small family business and has evolved into a global specialized in industrial dust management. For over 40 years, Delfin has been developing innovative solutions for the vacuuming, filtration, and conveying of materials within industrial processes. The company combines entrepreneurial vision with strong managerial leadership, led by a team of young managers alongside the founding family. With more than 200 employees and a presence in over 80 countries, Delfin exports 80% of its production worldwide. Its goal is to transform dust from a problem into an opportunity.



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