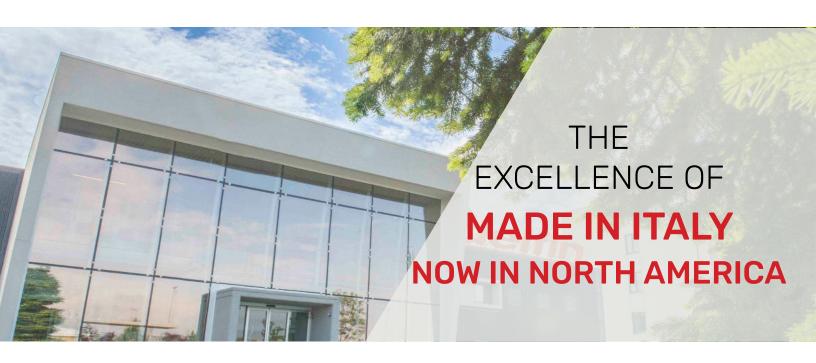


PRODUCT CATALOG



#### 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
"Made in Italy" by promoting the excellence of our products throughout the world.

### Vision



Delfin is a company that never stops growing and innovating.
We create valuable solutions and bring them fast to market with the aim of growing together with our partners.

### Mission



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

"Your safety is our focus, one dust particle at a time."











### Why choose Delfin

For thirty years, Delfin has grown as a specialized manufacturer offering an extended range of equipment and turnkey solutions in industrial dust mitigation and conveyance. Constant focus on self-improvement, quality control and service has established Delfin as one of the leading global brands. Innovation and flexibility, thanks to a team of experts dedicated to complex projects and customized products, are the drivers to constant development and improvement.

#### Customization



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

### Plymouth, MN Warehouse



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

# Extensive Range



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

### Technical Sales Team



We have a team of dedicated trained sales managers in the field in addition to in-house specialists in every department to guarantee direct, fast and efficient support.











#### **Guarantee**

The advantage of owning Delfin products does not stop at a top quality product, fast shipping, and a 2-year warranty. We never want a customer to be less than 100% satisfied. We guarantee accurate service and a committment to answering your questions within 24 hours.





### **Certifications**

A certified product is a safe product. Vacuum systems intended for use in risk-exposed areas and hazardous applications should be certified by a national recognized testing laboratory when applicable. Compliance with local and international regulations; ETL Intertek listed, Atex, TUV, ISO | CE regulations.



ETL Intertek Marking



ATEX Certification



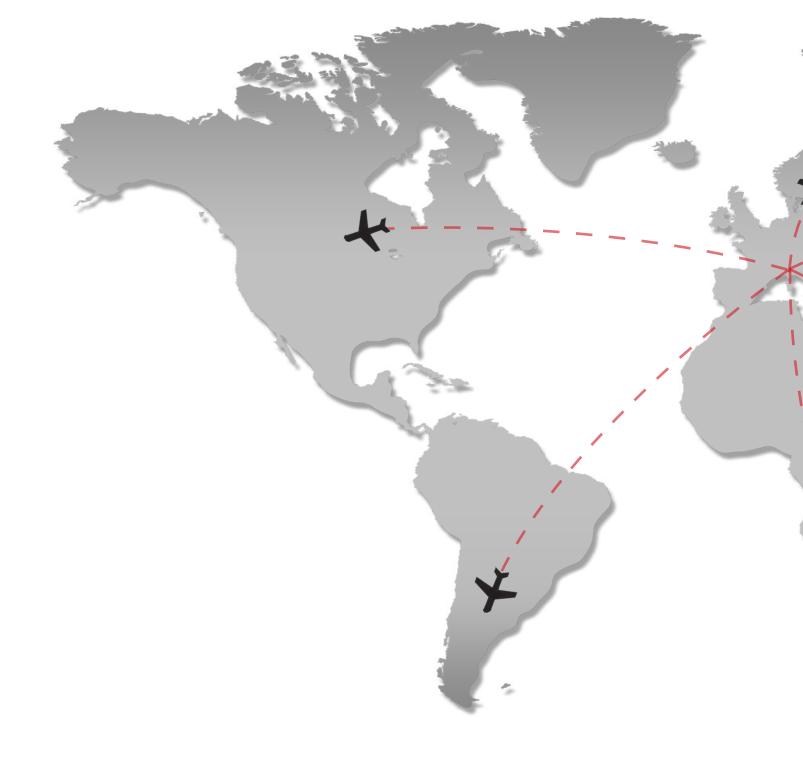
ISO Quality 9001:2015



CE marking 100% Made in Italy

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





# DELFIN WORLDWIDE

Delfin distributes its industrial vacuum solutions in more than 100 countries through a network of branches, specialized partners and distributors.



### **Delfin Industrial Corporation**



Plymouth, MN

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delfinindustrial.com

#### **HQ - Delfin SRL**



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A wide range of hoses, nozzles, tools and specific items matching every application need

#### Legend



Remote Start



Stainless Steel



Automatic Filter Cleaning System



Safe dust bagging system



**HEPA Filter** 



Fork Lift Intakes



Pressure Differential Kit



Other voltages



Other media filter



ATEX Certification



**ETL Certification** 



Articulated Suction Arm



Cyclone Filter Protector



Discharge Valve



Automatic filter shaking



Pneumatic control for start/stop through compressed air tools



Electric control for start/stop through electric tools



Sliding damper option for DUSTOP



Sieve grid basket



# SINGLE-PHASE INDUSTRIAL VACUUM SYSTEMS

**DRY AND WET & DRY** 

Single-phase vacuums with by-pass motors are designed for intermittent duty applications.





COMPACT, MOBILE AND MANEUVERABLE



EASY MAINTENANCE INTEGRATED FILTER CLEANING







## **Dry Vacuum Systems**

Compact and powerful vacuum systems with 1 or 2 single-phase motors. Ideal for suction of fine dust due to a large filter surface area, various filtration types, and numerous construction options.





**Single-phase** by-pass motors



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



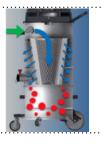
Roll-out container



**Tangential inlet** maximum cyclonic filtration efficiency



Enables quick & easy, self-contained, manual reverse purging of filter. The dust particles are released due to air back pulsing through the cartridge filter.



#### **Features**



















		4.	9.	W
		301 DS	202 DS	202 DS LP
Voltage - Power	V - HP	115 1~   1.3	115 1~   2.7	115 1~   2.7
Max waterlift	inH₂0	90.1	90.1	90.1
Max air flow	CFM	105.9	211.9	211.9
Filter   IEC60335-2-69	ft² - Class	6 - M PTFE	32 - M PTFE	32 - M PTFE
Capacity	gal	3.4	5	Longopac Bag
Dimensions	in WxLxH	18x19x33	23×19×43	20×19×49
Weight	lb	55	77	121



## **Dry Vacuum Systems**

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





**Single-phase** by-pass motors



**Roll-out** container with safety lock handle



**Star filter**large surface area low air to cloth ratio



**Manual** filter cleaning system with easy to use design



#### **Pressure Differential Kit**

Enables the use of disposable plastic bags when collecting solids or powders, avoiding spillages and dust clouds. It prevents the plastic bag from being sucked up into the filter chamber, clogging the filter and leaking dust. (optional)







#### **Features**

		4	0	
		452	DM3	DM3 B LP
Voltage - Power	V - HP	115 1~   2.7	115 1~   3.0	115 1~   3.0
Max waterlift	inH₂O	90.1	80.9	80.9
Max air flow	CFM	211.9	282.5	282.5
Filter   IEC60335-2-69	ft² - Class	22 - L	32 - ANT M	32 - ANT M
Capacity	gal	12	26	Longopac Bag
Dimensions	in WxLxH	23×25×49	30x26x59	31x26x61
Weight	lb	121	187	154











## **Wet & Dry Vacuum Systems**

Compact and powerful Wet & Dry vacuums with double filtration kit. Designed to handle liquids and dry material.





**Double filter kit** wet and dry



**Liquid discharge** for quick and easy removal



**Single-phase** by-pass motors



Floating device stops suction when container is full

## Simultaneous Suction and Discharge with the 802WXP

The immersion pump makes it possible to vacuum and discharge liquids fast and simultaneously.







#### **Features**

		•	•
		802 WD	802 WXP
Voltage - Power	V - HP	115 1~   2.7	115 1~   2.7
Max waterlift	inH₂0	90.1	90.1
Max air flow	CFM	211.9	211.9
Filter   IEC60335-2-69	ft² - Class	Dry 9 - L Wet 9 - PPL 300µm	9 - PPL 300μm
Capacity	gal	21	21
Discharge of Liquids		Discharge hose	Immersion pump 26 gal /min
Dimensions	in WxLxH	21x23x42	21x23x42
Weight	lb	88	110









# THREE-PHASE INDUSTRIAL VACUUM SYSTEMS

#### **DRY AND WET & DRY**

Three-phase industrial vacuum systems provide high performance for heavy duty and continuous applications.



IDEAL FOR CONTINUOUS WORK 24/7 30,000 MAINTENANCE FREE MOTOR



PRESSURE RELIEF VALVE INSTALLED FOR MOTOR PROTECTION ON ALL MODELS



HIGHLY CUSTOMIZABLE PRODUCTS-INCLUDING CENTRAL PIPING SYSTEMS









## **Three-Phase Industrial Vacuums**

Mid-range three-phase industrial vacuums, providing the right combination of suction power, filtration, dimensions and collection capacity.





## **Maintenance free** side channel blower with 30,000 hours of run time



Pressure relief valve to protect the engine and decrease downtimes



**Manual** filter cleaning system with easy to use design



**Roll-out** container with safety lock mechanism







#### Low Air to Cloth Ratio

High efficiency filtration due to the large filter surface area. This provides fewer filter changes resulting in a longer filter life.







#### **Features**

			1 9	ı		,	
		ZEFIRO 75	DG 50-70	DG 50 SE	DG 75	DG 75 AF	AS FIXE
Voltage - Power	V - HP	230/460 3~   4.6	230/460 3~   6.2- 8.4	230/460 3~   6.4	460 3~   11.5	460 3~   11.5	230/460 3~   4.6
Max waterlift	inH₂0	69.3	104.3/110.2	137.8	137.8	106.3	106.3
Max air flow	CFM	264.9	294.3 - 353.1	223.7	367.9	497.3	264.9
Filter   IEC60335-2-69	ft² - Class	32 - ANT M	32 - L	32 - L	53 - ANT M	53 - ANT M	32 - L
Capacity	gal	26	26	26	26	26	Weighted flap
Dimensions	in WxLxH	31x26x67	26x46x57	26x46x57	26x46x69	26x46x69	23x22x69
Weight	lb	209	302-331	320	375	375	132



## Three-Phase Heavy Duty Industrial Vacuums

The DG VL series combines exceptional performance with high filtration and customization. Ideal for multiple users, large capacity needs and long runs of piping systems.





Powerful side channel blower in single or two stage



**Control panel** customizable and easy access



Forklift intakes ability to maneuver on wheels or with a forklift



**Tangential inlet** with welded cyclone protector

#### **Self Clean System**

The system works thanks to an electro-pneumatic cylinder, powered by the installed compressor; by simply operating a lever on the control board, the operator can activate the cleaning cycle. In a few seconds the filter efficiency is back to its highest performance. As an option, the system can be made fully automatic, by installing an additional timer.







#### **Optionals**















#### **Features**

		DG VL 110 Manual	DG VL 125	DG VL 185	DG VL 150 SE
Voltage - Power	V - HP	460 3~   16.9	460 3~   19.4	460 3~   28.6	460 3~   23.2
Max waterlift	inH₂0	86.6	108.3	128.5	212.6
Max air flow	CFM	735.7	735.7	941.7	494.4
Filter   IEC60335-2-69	ft² - Class	75 - ANT M	75 - ANT M	75 - ANT M	75 - ANT M
Filter cleaning system		Manual	Self Clean	Self Clean	Self Clean
Capacity	gal	42	42	42	42
Dimensions	in WxLxH	71x30x79	71x30x79	71x30x79	74x30x79
Weight	lb	485	485	584	485



## **Three-Phase Heavy Duty Industrial Vacuums**

Three-phase industrial vacuums, providing the highest performance and match of suction power, filtration, dimensions and collection capacity. Specifically designed for the heavy industry handling large volumes of materials. This range offers flexible solutions in mobile cleaning and large central vacuum systems.





Powerful side channel blower in single or two stage



**Star filter**large surface area low air to cloth ratio



**Welded eye bolts** for crane lifting



**Roll-out** container with safety lock mechanism



#### **Automatic System AUT**

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





#### **Features**

		DG 200	DG 300 SE	DG 300 HD
Voltage - Power	V - HP	460 3~   28.6	460 3~   30.8	460 3~   38.9
Max waterlift	inH₂0	128.5	173.2	108.3
Max air flow	CFM	941.7	788.7	1471.4
Filter   IEC60335-2-69	ft² - Class	129 - ANT M	129 - ANT M	129 - ANT M
Capacity	gal	58	58	58
Dimensions	in WxLxH	36x87x87	36x87x87	36x87x87
Weight	lb	1455	1676	1775

















# INDUSTRIAL COMPRESSED AIR VACUUM SYSTEMS



Delfin's 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 sizes 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 Systems**

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.





highest performing 2V in ultra-compact design



**Easy connection** to 3/8" air supply



NFPA652, 654, 69 and ATEX certified and compliant versions available



## Large selection of filters

for each type of application



#### **Multi-Jet Venturi**

Patented most efficient venturis on the global market. Maximizing perfomance, while reducing energy cost.



#### **Features**

		•	0		27274
		AIR 80 WD 2V	AIR 45 2V	AIR DM 19V	AIR DM HD 25V
Application		Dusts and liquids	Dusts and liquids	Dusts and liquids	Dusts and liquids
Air supply - Pressure	CFM - PSI	106 - 87	106 - 87	54 - 87	88 - 87
Max waterlift	inH₂0	164.6	164.6	196.9	196.9
Max air flow	CFM	176.6	176.6	273.7	347.3
Filter   IEC60335-2-69	ft² - Class	Dry 8.6 - L Wet 8.6 - 300µm	22 - ANT M	32 - ANT M	32 - ANT M
Capacity	gal	21	12	26	26
Dimensions	in WxLxH	21x23x39	23x25x47	24x24x63	24x24x63
Noise level   EN ISO 3744	dB (A)	73	73	74	74
Weight	lb	73	108	176	176







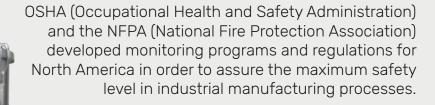








# **CERTIFIED EXPLOSION-PROOF INDUSTRIAL VACUUM SYSTEMS**



Delfin takes initiative to provide NRTL certified explosion-proof vacuum systems. They are ETL and UL listed with Intertek, and manufactured to avoid any risk of ignition in a potentially explosive environment.



WIDE RANGE OF NFPA COMPLIANT AND NRTL CERTIFIED VACUUMS



MAXIMUM SAFETY DURING THE SUCTION OF COMBUSTIBLE DUST









### NFPA 652 Regulation



NFPA 652 defines a combustible dust as "a finely divided combustible particulate solid that presents a flash fire hazard or explosion hazard when suspended in air or the process-specific oxidizing medium over a range of concentrations."

This applies to all facilities that manufacture, blend, package, repackage, convey, or handle combustible dust or particulate solids that may become dust (even in non-classified environments).

	CLASS	RISK	GROUP
GAS, VAPOR	<i>I</i>	DIV. 1, NORMALLY PRESENT	D
LIQUID	<i>I</i>	DIV. 2, ABNORMALLY PRESENT	D
DUST	II	DIV. 1, NORMALLY PRESENT	E, F, G
	II	DIV. 2, ABNORMALLY PRESENT	F, G

### Delfin products certifications by NRTL organizations

NFPA and OSHA are not certification authorities so it is not possible to certify equipment through these organizations. Only a Nationally Recognized Testing Laboratory may certify equipment for use in hazardous locations.





### Types of product certifications

Depending on the product engineering and customization level, it is possible to obtain 3 types of certification. Delfin can provide for its systems the right type in order to guarantee the maximum safety for workers and environments.

#### **Listed certification**

The product has been tested to and found in compliance with national safety standards by a qualified, independent testing laboratory. It is part of an on-going program that ensures the product's continued compliance.

NRTL certified products are a "listed" certification.

## Limited production run certification

Needed when a product has been engineered to produce a small batch of products within a contiguous period. Certification takes place on site

Certification takes place on site at the manufacturing facility.

#### **Field Evaluation**

Fully customized products such as centralized vacuum systems require a field evaluation certification.

Delfin can provide all the components for the safety and containment systems needed to avoid any risk of explosion, such as flameless vents, isolation or explosion relief valves.

## Class II Division 2 | Single-Phase Systems

NRTL certified vacuum systems for cleaning in Class II, Division 2, Groups F & G environments. A complete range of solutions that successfully combines robustness, power and filtration efficiency with total safety guarantee for workers and working environments.





**Antistatic filters** class M and optional HEPA filter



Maximum safety from complete earth grounding of the machine



**Safe dust bag**for use with hazardous
particles for no touch
disposal (optional)

#### **Features**

			8	
		300 BL D2	301 BL D2	201 BL D2
Marking		Class II, Division 2 Groups F, G	Class II, Division 2 Groups F, G	Class II, Division 2 Groups F, G
Voltage - Power	V - HP	115 1~   1.5	115 1~   1.5	115 1~   1.5
Max waterlift	inH₂0	90.6	90.6	90.6
Max air flow	CFM	121.8	121.8	121.8
Filter   IEC60335-2-69	ft² - Class	4 - ANT M	6 - ANT M	32 - ANT M
Capacity	gal	3	4	5
Dimensions	in WxLxH	18x17x31	18x19x34	19×23×43
Weight	lb	55	55	77











## Class II Division 2 | Single-Phase Systems

Our NRTL certified vacuum systems continue into our larger capacity vacuums with accessory holders and manual shaker system for large surface area filters providing low air to cloth ratio.









**Stainless steel** collection tank



**Longopac safe** collection available



Class M antistatic filter + optional HEPA filter



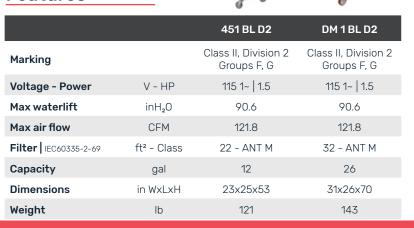
Steel ring holder used with antistatic bag for safe disposal of dust (optional)



#### **Full Stainless Steel System**

Systems can be upgraded to full stainless steel including the canister, filter chamber, and motor cover.















## Class II Division 2 | Three-Phase Systems

Our NRTL Certified line continues with our DG series for use with large amounts of material. These can increase the efficiency and productivity of any heavy industry. Use with a filtering and separating unit for central vac needs.









Certified Explosion-proof Side Channel Blower UL 1203



Antistatic filters class M and optional HEPA filter



**Stainless steel** collection tank as standard and filter chamber optional



**Longopac safe** collection available



#### **Features**

			•	
		DG KW3 D2	DG KW5 D2	DG KW6 D2
Marking		Class II, Division 2 Groups F, G	Class II, Division 2 Groups F, G	Class II, Division 2 Groups F, G
Voltage - Power	V - HP	460 3~   4.6	460 3~   6.2	460 3~   8.4
Max waterlift	inH₂0	92.3	120.4	78.3
Max air flow	CFM	220.7	229.5	353.1
Filter   IEC60335-2-69	ft² - Class	32 - ANT M	32 - ANT M	32 - ANT M
Capacity	gal	26	26	26
Dimensions	in WxLxH	26x47x57	26x47x57	26x47x57
Weight	lb	276	302	320













## Class II Division 2 | Longopac Systems

Longopac systems provide easy disposal of harmful material collected and portability for fine dust extraction. The longopac safe bagging system ensures dust or toxic substances is removed from the work site without workers being exposed, diminishing the risk of inhalation.





Safely dispose of fine or toxic dust with no exposure to the user after collection



Powder coated steel construction to prevent any paint chipping



Adjustable body for differing capacity levels and easy transport



**Brushless** spark-free motor up to 10,000 hour life expectancy



#### Endless Bagging System

The Endless Bag is a continuous bag system (66 feet in length) that allows you to adjust the weight and length of the bag as needed, preventing dust exposure to the operator.



		MISTRAL 201 BL LP D2	DM 1 BL LP D2	DG KW 3 LP D2	DG KW 5 LP D2	DG KW 6 LP D2
Marking		Class II, Div. 2 Groups F, G				
Voltage - Power	V - HP	115 1~   1.5	115 1~   1.5	460 3~   4.6	460 3~   6.2	460 3~   8.4
Max waterlift	inH₂0	90.6	90.6	92.3	120.4	78.3
Max air flow	CFM	121.8	121.8	220.7	229.5	353.1
Filter   IEC60335-2-69	ft² - Class	32 - ANT M				
Capacity	Ft	66	66	66	66	66
Dimensions	in WxLxH	20x19x49	31x26x61	26x47x57	26x47x57	26x47x57
Weight	lb	121	154	276	302	320









## Class II Division 2 Three-Phase Systems

NRTL certified vacuum systems for cleaning in Class II, Division 2, Groups F & G environments. A complete range of solutions for continuous duty in hazardous areas that successfully combines reliability, robustness and power with total safety guarantee for workers.





collection tank



**Maximum safety** from complete earth grounding of the machine



**Manual or Automatic** filter cleaning systems PN as an optional



**DUSTOP** quick and easy reverse purging of filter

#### **DUST-TIGHT Protection Method**

DUST-TIGHT protection method: Prevent ingress of explosive atmosphere and limit surface temperature.

All Class II Div 2 systems have electrical equipment that prevents an explosion caused by dust.



#### **Features**

			9
		DBFV 30 D2	DG 86 AF D2
Marking		Class II, Division 2 Groups F, G	Class II, Division 2 Groups F, G
Voltage - Power	V - HP	460 3~   3.4	460 3~   11.5
Max waterlift	inH₂0	60.2	108.4
Max air flow	CFM	220.7	482.6
Filter   IEC60335-2-69	ft² - Class	13 - ANT M	53.8 - ANT M
Capacity	gal	10	26
Dimensions	in WxLxH	16x24x40	26x47x69
Weight	lb	132	397







## Class I-II Division 1-2 | Vacuum Systems

NRTL certified vacuum systems for use in Class I, Division 2, Group D, and Class II, Divisions 1 and 2, Groups E (\*), F & G requirements. Delfin's certified machines are the perfect solution for enclosed areas where dust is constantly present in the air.





\*Immersion
pre-separator
is required when collecting
group E metal dust



**HEPA filter** equipped as standard



Stainless steel collection tank and filter chamber



**Antistatic casters** for a secondary earth grounding point

#### **Features**

			1	<b>3</b>
		MISTRAL 201 D1	DG KW4 D1	DG KW6 D1
Marking			ass I, Division 1 Group , Division 1-2, Groups	
Voltage - Power	V - HP	115 1~   2.2	460 3~   5.0	460 3~   7.4
Max waterlift	inH₂0	67.7	89.9	72.2
Max air flow	CFM	138.3	241.3	406.1
Filter   IEC60335-2-69	ft² - Class	32 - ANT M   H14	32-ANT M   H14	32-ANT M   H14
Capacity	gal	5.3	26	26
Dimensions	in WxLxH	19x23x43	26x47x67	26x47x67
Weight	lb	88	280	308









## **AIREX Compressed Air Vacuums**

ATEX certified and NFPA compliant industrial vacuum systems, suitable for wherever the use of electricity is not possible or forbidden. Designed to collect explosive and conductive dusts.





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



**Variety of filters** for every type of application



AISI 304 stainless steel construction







		*			
		AIREX 20 DS 1V	AIREX 45 2V	AIREX DM 19V	AIREX DM HD 25V
Compliance		Class I Div 2 Group D and Class II Div 1&2 Groups E(*), F, G			
ATEX marking Zone 1-2/21-22		2GD Ex II 2D Ex h IIIC T85°C Db; Ex II 2G Ex h IIB T6 Gb			
Air supply - Pressure	CFM - PSI	53 - 87	106 - 87	54 - 87	88 - 87
Max waterlift	inH₂0	164.6	164.6	196.9	196.9
Max air flow	CFM	88.3	176.6	273.7	347.3
Filter   IEC60335-2-69	ft² - Class	32 - ANT M	22 - ANT M	32 - ANT M	32 - ANT M
Capacity	gal	5	12	26	26
Dimensions	in WxLxH	20x19x39	28x22x50	24x24x62	24x24x62
Noise level	dB (A)	73	73	74	74
Weight	lb	79	110	176	176











## **WET AIREX Certified Solutions**

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







#### **Certified** to vacuum flammable liquids





AISI 316 stainless steel cartridge filter



**Activated carbon** filter



#### Float Stop

Device that automatically shuts off the motor when the liquid in the canister has reached capacity. Prevents the motor from being damaged. Easy operator use.





#### **Features**

		AIREX 80 W 2V 1-2 G
ATEX marking Zone 1-2/21-22		Ex II 1/2G Ex h IIB T6 Ga/Gb
Air supply - Pressure	CFM - PSI	106 -87
Max waterlift	inH₂0	164.6
Max air flow	CFM	176.6
Filter   IEC60335-2-69	ft² - Class	Stainless steel + Activated carbon
Capacity	gal	21
Dimensions	in WxLxH	24x21x43







## **Zone 20 Internal Certified Vacuum Systems**

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





## Powerful, maintenance free

side channel blower, ATEX certified by the manufacturer



**Star filter**large surface area low air to cloth ratio



**H14 HEPA** filter included



**Wide range** of certified vacuum systems up to 28.6 HP





#### **Features**

		9 4	<b>V</b>
		DG VL 185 EX 1/2 D	DG 300 HD EX 1/2 D
ATEX Marking		Ex II 1/2D Ex h IIIC T160°C Da/Db	Ex II 1/2D Ex h IIIC T160°C Da/Db
Voltage - Power	V - HP	460 3~   28.6	460 3~   28.6
Max waterlift	inH₂0	110.2	96.5
Max air flow	CFM	941.7	780.5
Filter   IEC60335-2-69	ft² - Class	75 - ANT M 111 - H14	129 - ANT M 111 - H14
Capacity	gal	42	58
Dimensions	in WxLxH	71x30x79	37x71x87
Weight	lb	584	1786













## **Solutions for the Inertization**

### of Combustible Dust Collection

The inert 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 (inert bath) that immediately makes them non-explosive.





Stainless steel container with **inerting bath** 







#### **Features**

		451 BL INERT	ZEFIRO 75 INERT	DG 50 INERT
ATEX Marking - Vacuum		Ex II 3D Ex to IIIB T135°C X Do	Ex II 3D Ex to IIIB T135°C X Do	Ex II 3D Ex to IIIB T135°C X Do
ATEX Marking - Container		Ex II 3D Ex h IIIC T85°C X Dc	Ex II 3D Ex h IIIC T85°C X Dc	Ex II 3D Ex h IIIC T85°C X Dc
Voltage - Power	V - HP	115 1~   1.5	230/460 3~   4.6	230/460 3~   6.2
Max waterlift	inH₂0	90.6	100.4	104.3
Max air flow	CFM	121.8	211.9	294.3
Filter   IEC60335-2-69	ft² - Class	22 - ANT M	32 - ANT M	32 - ANT M
Oil - Dust Capacity	gal	2 - 1	7 - 3	7 - 3
Dimensions	in WxLxH	23x25x51	31x26x67	26x46x57
Weight	lb	137	232	342













## **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 for quick removal.





Powerful side channel blower with relief valve



**Direct integration** on machinery and production lines



**Silencer** for noise reduction



Preventing clogging
from suction from above
and compression
of the collected waste,
exploiting full capacity





#### **Features**

			•		•		
		AS 10	AS 20	AS 30	AS 70		
Voltage - Power	V - HP	230/460 3~   1.3	230/460 3~   3.0	230/460 3~   3.4	230/460 3~   8.4		
Max waterlift	inH₂0	64.2	74.8	84.3	118.1		
Max air flow	CFM	103.0	176.6	211.9	353.1		
Filter   IEC60335-2-69	ft² - Class	L Bag	L Bag	L Bag	L Bag		
Capacity	gal	34	34	34	55		
Dimensions	in WxLxH	23x22x52	23x22x52	23x22x52	25x39x49		
Weight	lb	132	154	165	276		









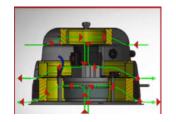
## **Vacuum Systems for Clean Rooms**

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 IS04



6 levels of ULPA air filtration



AISI316 stainless steel autoclavable mirror polished container



Autoclavable accessories kit available







#### **Features**

		MICROTEC	LC 1000 D	LC 1100 WD
Voltage - Power	V - HP	115 1~   1.3	115 1~   1.3	115 1~   1.3
Max waterlift	inH₂0	107.4	107.4	90.1
Max air flow	CFM	100.1	100.1	105.9
Solids - liquids Capacity	gal	4	1.3	10.6 - 6.6
Filter   IEC60335-2-69	ft² - Class	2 - M PTFE	2 - M PTFE	3 - M PTFE
Filter in Suction and Blowing	Upstream Downstream	ULPA H14 Included	U15 standard U15	U15 standard E 10 standard
Cooling air filter		-	-	U15 Standard
Dimensions	in WxLxH	12×14×20	14x13x20	17×17×29
Weight	lb	26	44	60







## **PNEUMATIC CONVEYORS**



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 handle different applications related to the handling of dusty, granular or solid material in many types of industries.



#### **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 single-phase or three-phase (1.5 to 23.2 Hp)
- Pneumatic multi-jet Venturi unit (4 to 15 nozzles)

#### **Loading unit**

- Tangential inlet from 1.5 up to 4 in.
- Capacity from 1.5 up to 14 gal.

Pneumatic Models		
Multi-jet Venturi		4-15
Air consumption	CFM (It/min)	13.1 - 49.5
Water lift	inH₂0	301.2
Airflow	CFM	64.7-223.7

#### Discharge unit

- Discharge size from 4 up to 10 in.
- 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

Electric models (60Hz)		115V 1~	460V 3~
Voltage	HP	1.5	2.9 - 23.2
Max waterlift	inH₂0	100.4	84.3-216.8
Max air flow	CFM	105.9	187.2-706.3





## **Pick-up Solutions**



#### Nozzle pick-up

The material is picked up from a container by the means of a nozzle and then transported to the selected point



## Pick-up from a manually filled up hopper

The material is manually placed inside a container and transported to the selected point



## Direct pick-up from an automatic machine

The material is picked up from an

automatic feeded hopper and then transported to the selected point

## **Discharge and Filling**



Load or discharge of fixed

containers

Silo, hoppers and big-bags



#### Semi-automatic machine load

or auger feeders,



#### **Automatic machine load**

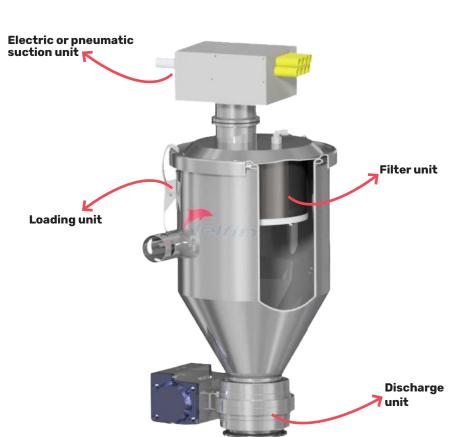
Dicers, roasters, blending machines, vibrating sieves, packaging lines



# **Advantages and Benefits**



- Easy installation on production lines
- Low-wear, no maintainence required
- Improved security of working environment
- Easy to use and sanitize
- No alteration or contamination of the product
- Improvement of environmental healthiness
- Use in potentially explosive environments



# **Common Applications**



# 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

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







**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



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



PTFE
Coated filter class M
Suitable for sticky
powders



NOMEX
Heat resistant filter
up to 482° F ideal for hot



Activated carbon Traps and reduces bad odors



**PPL filter**Suitable for 300 or 100 micron oil filtration



# **DUST COLLECTORS**



Delfin dust collectors have a very high air flow, which enables the extraction of airborne dust and light particles.



### **FIXED OR MOBILE APPLICATION**



# LOCAL EXTRACTION OF AIRBORNE DUST AND PARTICLES





Fan or Blower
Fans produce high airflow rate with less waterlift rate, ideal for airborne dust or light material suction.
Blowers produce higher waterlift values with lower air flow rates, ideal for suction of heavy material.







## **Dust Collectors with Extraction Arm**

Mobile dust collectors with powerful electric fans that generate high air flow. Suitable for local extraction of airborne particles generated by spillages, product transfer, packing and loading, or mechanical operations such as grinding, chipping, or cutting of light materials.





# **Centrifugal fan** providing high airflow, with integrated silencer



High efficiency filters available in multiple options with manual or automatic filter cleaning systems



## **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. (optional)







### **Features**

		9	•	<b>(9)</b>	1
		ZEFIRO EV AP 500	ZEFIRO EV AP 560	ZEFIRO EV AP 560 PN 3HP	ZEFIRO EV AP 560 PN 5HP
Voltage - Power	V - HP	230/460 3~   3.5	230/460 3~   6.4	230/460 3~   3.5	230/460 3~   6.4
Suction inlet	in	6	5 6 8	6	5 6 8
Max waterlift	inH₂0	14.2	13.8   15.7   7.9	14.2	13.8   15.7   7.9
Max air flow	CFM	765.2	647   1059   1589	765.2	647   1059   1589
Filter   IEC60335-2-69	ft² - Class	32 - L	54 - ANT M	114 - ANT M	114 - ANT M
Filter cleaning System	<b>n</b> Manuai Manuai '		tomatic filter cleaning stem		
Capacity	gal	26	26	26	26
Dimensions	in WxLxH	24x24x87	31x33x98	31x33x98	31x33x98
Weight	lb	221	287	276	309

### **Optionals**

















# **Dust Collector Cube**

High air flow industrial dust collector for localized or on board suction of fine dust. The large filter cartridges guarantee complete filtration of the extracted dust. A removable container provides quick and easy disposal of the product.





Centrifugal fan capable of generating high air flow values





Roll-out container for ease of use



**Extraction arm** available as optional





### **Features**

			•	
		CUBE 10	CUBE 20	CUBE 40
Voltage - Power	V - HP	230/460 3~   1.5	230/460 3~   2.0	230/460 3~   4.0
Min-max waterlift	inH₂0	5.7 - 4.8	4.5 - 5.6	7.5 - 10.6
Min-max air flow	CFM	794.6 - 1236	794.6 - 1412.6	1236 - 2236.6
Filter   IEC60335-2-69	ft² - Class	108 - ANT M	215 - ANT M	431 - ANT M
Filter Cleaning System			Automatic PN	Automatic PN
Capacity	gal	1.3	8	24
Dimensions	in WxLxH	35x31x43	45x32x67	47×43×98
Noise Level   EN ISO 3744		74	74	76
Weight	lb	320	518	772

### **Optionals**





# INDUSTRIAL VACUUM SYSTEMS FOR RECOVERY AND SEPARATION OF OIL AND CHIPS



The Tecnoil range is the ideal solution to guarantee the maximum efficiency of machine tools in industries that carry out mechanical processing.



RECOVER AND REUSE OF LUBRICANT OIL



SAVINGS ON THE PURCHASE OF OIL AND DISPOSAL OF CHIPS

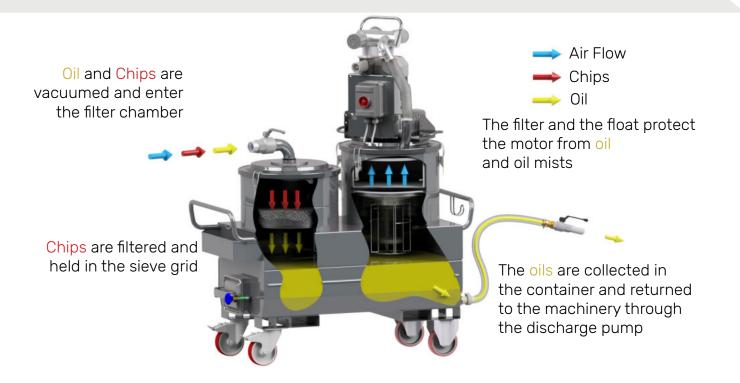


REDUCTION OF MAINTENANCE TIME AND MACHINE STOPS





# **How Does it Work?**



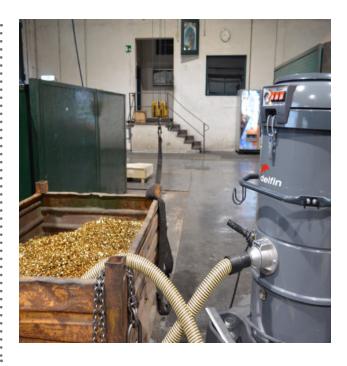
## Oil and chips

The use of vacuum systems for oil and chips allows the reuse of emulsions, guaranteeing economic savings and reducing the time for maintenance.



### **Chips and shavings**

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



# Oil and Chips Vacuum Systems up to 26 Gallons

Compact and powerful vacuum systems 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, and emulsions.





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



**Simultaneous suction and discharge** from an immersed pump

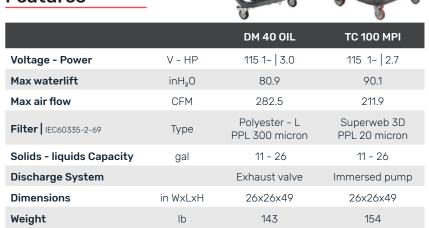


Level indicator and float system to stop the suction when container is full



**Grid basket** for easy swarf removal

## **Features**



## **Optionals**





## Oil and Chips Vacuum System up to 58 Gallon

Vacuum system 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 finefilter the liquid, while oil mist filters guarantee protection of the motor.





### Powerful side channel blower

with reverse flow for liquid discharge



Superweb 3D filter 20 microns



Fork lift intakes



Hatch for internal cleaning







**Features** 



		TC 220 IF	
Voltage - Power	V - HP	230/460 3~   4.6	

		TC 220 IF
Voltage - Power	V - HP	230/460 3~   4.6
Max waterlift	inH₂0	100.4
Max air flow	CFM	211.9
Filter   IEC60335-2-69	Туре	3D Superweb PPL filter 20 micron
Solids - liquids Capacity	gal	11 - 58
Discharge system		Reverse flow
Dimensions	in WxLxH	57x28x69
Weight	lb	408

## **Optionals**







### Water repellent **OW** 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. (optional)



# Oil and Chips Vacuum Systems up to 106 gallons

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 due to the 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 SE	
Voltage - Power	V - HP	230/460 3~   6.2	230/460 3~   6.4	
Max waterlift	inH₂0	104.3	137.8	
Max air flow	CFM	294.3	223.7	
Filter   IEC60335-2-69	Туре	3D Superweb PPL filter 20 micron	3D Superweb PPL filter 20 micron	
Solids - liquids Capacity	gal	13 - 106	13 - 106	
Discharge system		Reverse flow	Pump	
Dimensions	in WxLxH	55x28x71	55x28x71	
Weight	lb	496	551	

## **Optionals**















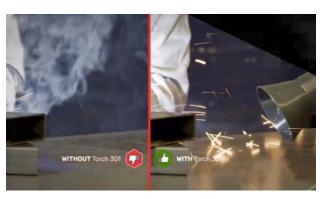
# **Welding fume extractor**

Suction at the source is the best way to collect and vacuum welding fumes to safeguard welder's health. The Delfin Torch 302 has a device which allows power to start or stop the machine without the intervention of the welder, who will be free to focus on using the welding torch.









Suction at the source of welding fume from welders

## **Features**



## **Optionals**











# **Extraction Arm**

Equipped with a hood to capture fumes at the source. (optional)



# INDUSTRIAL VACUUM SYSTEMS WITH HIGH PERFORMANCE LOBE PUMPS



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 systems make it easy and safe to remove and handle large quantities of dusty and solid material.





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

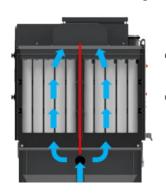
The self-cooled pump guarantees the achievement of very high vacuum values and max air flow.

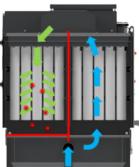


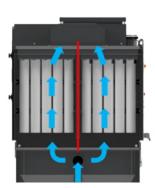
### **CONTINUOUS AND EFFICIENT FILTERING SYSTEMS**

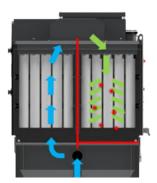
### High filtration efficiency

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 systems 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 22CP	DHV 30AF	DHV 30HV	DHV 45AF	DHV 45HV	CVC WITH FILTERING SEP
Voltage - Power	V - HP	460 3~   22	460 3~   46.3	460 3~   46.3	460 3~   69.4	460 3~   69.4	460 3~   46.3/69.4
Max waterlift	inH₂0	197	197	315	197	315	197 - 315
Max air flow	CFM	765	1060	765	1470	1118	765-1470
Main Filter	ft²	75.3	172.2	172.2	172.2	172.2	75.3-172.2
Safety Filter	ft²	43	75.3	75.3	75.3	75.3	43-75.3
Dimensions	in WxLxH	63x30x100	66x63x115	66x63x115	66x63x140	66x63x140	45x49x58 57x57x123
Weight	lb	6124	4585	4630	5093	4982	

# CENTRALIZED VACUUM SYSTEMS

Delfin centralized vacuum systems significantly improve the production efficiency of the plant. Based on the power and features of the suction unit and specific working conditions, a central vacuum system allows to vacuum materials even at a great distance, or in several places simultaneously.



**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 have several pick up points simultaneously.



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

### **Suction unit**



### **Filtration unit**



### **Components**







# CENTRALIZED VACUUM SYSTEM COMPONENTS

# Pre-separator with cyclone



Easy to handle with forklift intakes



Automatic snap closure



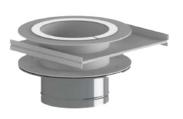
# **Discharge Systems**



Butterfly valve



Double butterfly valve



Sliding damper



Rotovalve for continuous discharge



Delfin engineers and manufactures centralized vacuum systems complete with vacuum unit, filter hoppers, pre-separators and piping.

# **Components**









**Piping** 

**Curve bends** 

**Branch pipes** 

**Reinforced cuffs** 

# **Accessories**



Bulk pickup nozzle with air fluidification



Scraping nozzle with wheels



Double bend and floor brush



**Abrasion-proof hose** 

# Safety Equipment



**Explosion vents** 



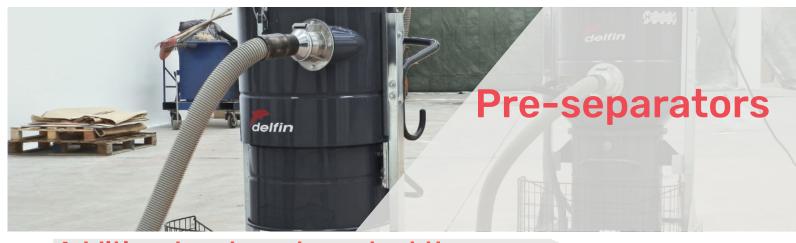
**Explosion relief valves** 



Isolation flap valves



**ATEX** certification



# 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 to increase capacity up to 220 gallons



Pre-separator lids



Pre-separators with Longopac safe collection bag



Wheeled pre-separators



Water pre-separators for hot material



Pre-separators for explosive dusts







## **Accessories range**

Delfin supplies a wide range of original accessories that allow you to get the most out of your industrial vacuum systems. 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



# **Accessories**



## **Color Coded Accessories**



Round brushes



Square brushes



Hand-held nozzles

## **Additional Tools**



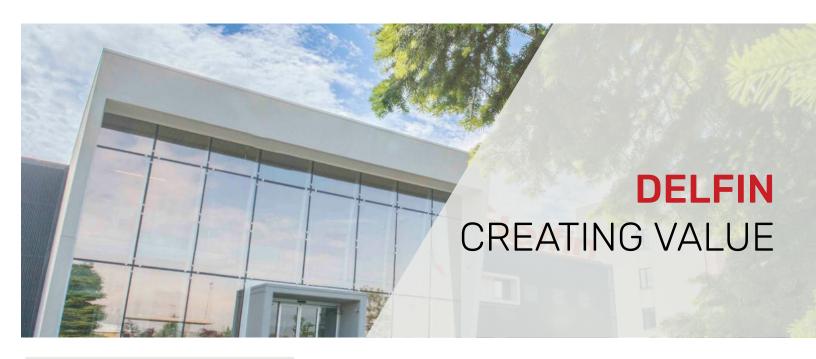
Hand-held tools



Bulk pick-up wands



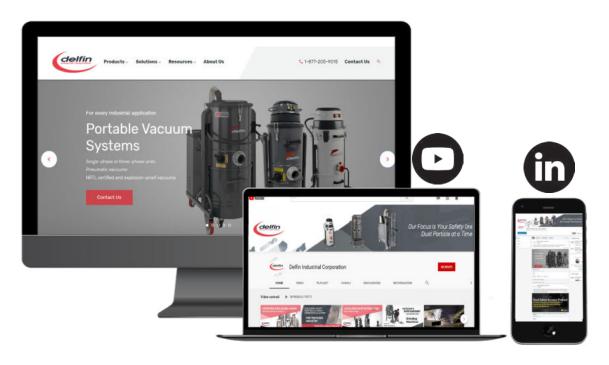
Nozzles



## Follow us

We are a company that never stops growing, creating value and innovating. Follow us on our channels to stay informed about all the news from the Delfin world.

### www.delfinindustrial.com



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Your safety is our focus, one dust particle at a time.

### **DELFIN INDUSTRIAL CORPORATION**



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