

2018 PRODUCT CATALOG



Industrial Vacuum Systems



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Delfin Srl, Italy





Quality. Design. Innovations. **For more than twenty five** **years.**

Delfin was created over twenty years ago by the passion of its founder, Antonino Siclari, for the field of industrial vacuum. Since then it has never stopped working to offer innovative and efficient solutions to its customers. Today Delfin provides state of the art industrial vacuum solutions to professionals and industries around the world. Thanks to its innovative and entrepreneurial choices, the company represents the only industrial partner capable of providing a truly 360 degrees know-how in the field of industrial vacuums. With a range composed of more than 100 models, Delfin is always able to ensure the right solution in each application area.

Since 2009, it operates directly in the German market with a wholly owned branch, **Delfin Deutschland Industriesauger GmbH**.

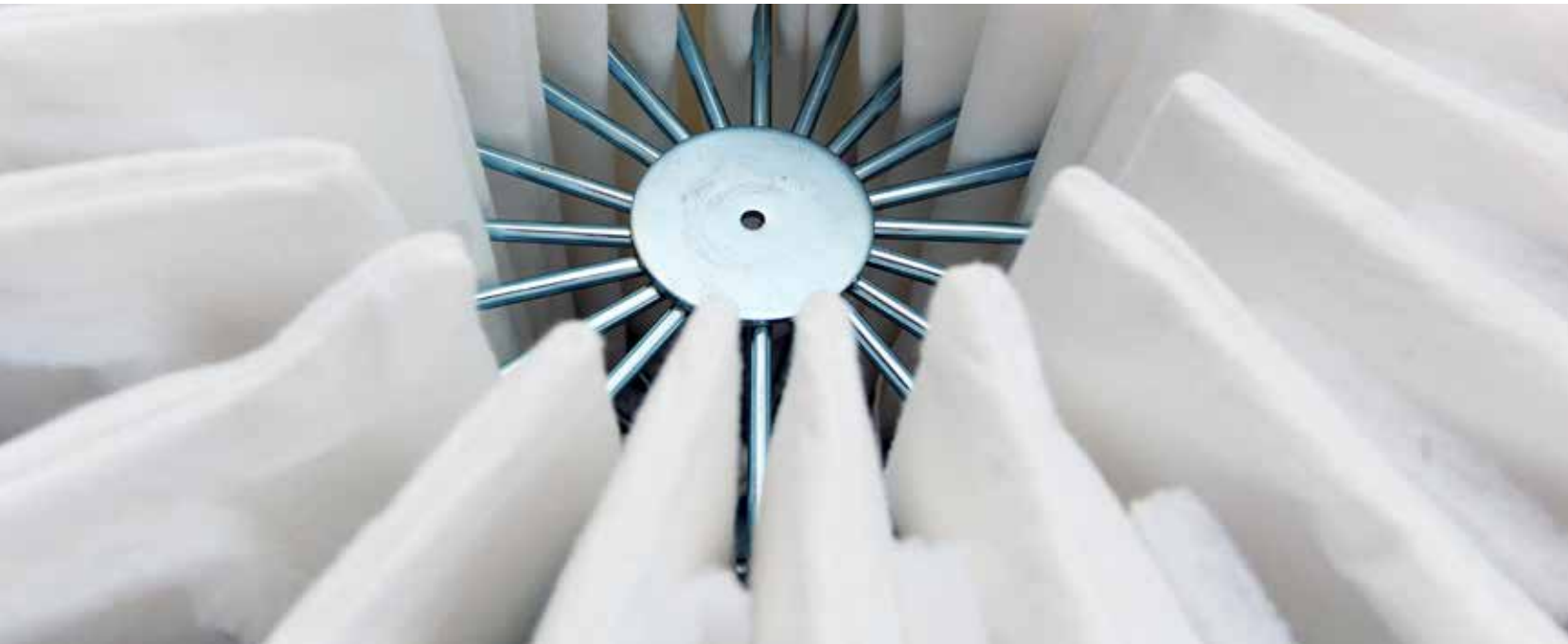
In 2013 Delfin opened a new branch, **Delfin Asia - Pacific**, in Vietnam in Ho Chi Minh City, in order to ensure a better distribution service across the South - East Asia and Oceania.

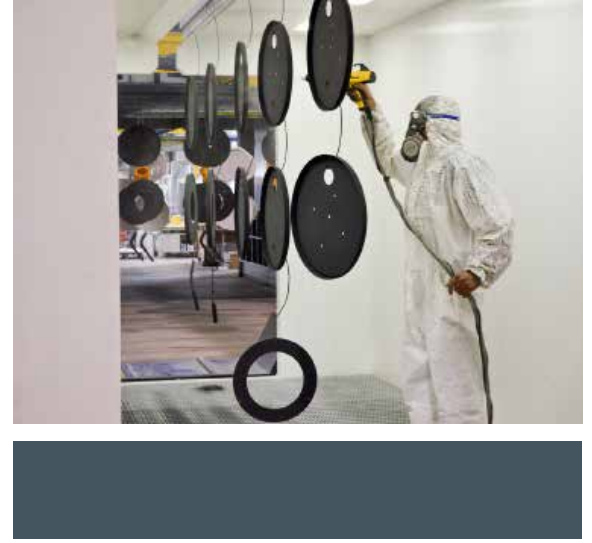
Solutions that improve efficiency.

Delfin's industrial vacuum cleaners are not simple vacuum cleaners but true industrial tools capable of increasing the efficiency of each industrial process, ensuring security and cleaning standards even in the most demanding environments. From the pharmaceutical laboratory to the foundry, from the small bakery to the largest automotive industry, our vacuum cleaners have solved and continue to satisfy the cleaning requirements of industries worldwide.

Reliability. Beyond all limits.

Discover the every day reliability of each Delfin machine. Each vacuum cleaner is the perfect combination of quality, safety and technology, but also because you have at your disposal a Unique service, attentive to your requirements and your needs. Additionally, Delfin gives you more, going beyond what is required by law. Each industrial vacuum cleaner, has a **2 year warranty** in the rare case of defective construction. All of Delfin's machines are CE marked and are assembled through a quality certified process to the ISO 9001 standard. Our new Explosion-proof line complies with NFPA standards.





Original spare parts. Because no one knows Delfin, better than Delfin.

Side channel blowers from 1 to 33.5 HP, spare parts for each single model , hoses of all diameters and length, and fast shipping are just some of the benefits you can expect from Delfin Industrial. Delfin's Original Spare Parts allow each vacuum to maintain its value and efficiency of the machine for which they were specially designed, while guaranteeing that a Delfin vacuum is always a Delfin.

Original accessories. As unique as your business.

Each Delfin vacuum cleaner can be configured and made unique, perfectly suited to your work. Designed specifically to enhance the functionality of each model, original accessories will enhance the comfort and the efficiency of use of any Delfin vacuum cleaner.

Made in Italy Excellence.

Absolute quality. Almost infinite life. Continuous Efficiency. This result is made possible thanks to constant investment in R & D and to direct and constructive dialogue with the customers. Our department of Research & Development, as well as ensuring the never ending development of the product, empowers the customization of machines and the creation of special designs, specifically designed on the customers' needs.

Excellence is not a word, it is a lifestyle. With this idea in mind our expert staff assemble, test and verify the correct operation of each small part of our industrial vacuums, from the first to the last machine. Delfin quality is not a promise, but a certainty. Each Delfin vacuum cleaner is built in Italy, with components Made in Italy or in Germany, through a process of production which has been certificated for quality by DNV with the ISO 9001.

DELFIN WORLD WIDE

Delfin Industrial is headquartered in Plymouth, MN to ensure fast shipping and service. Our production facilities are located in Settimo Torinese, near Turin (Italy). We operate worldwide through direct branches and official distributors.

Worldwide Delfin Locations





Delfin Industrial, located in Plymouth, MN, is led by an expert in the vacuum industry, Scott C. Boersma. Boersma, has partnered with Delfin Srl, and has brought Delfin Industrial Corporation to North America as COO/CSO September 1st, 2017. He has over 17 years' experience in technical industrial sales, extensive knowledge of combustible dust, and a high-level understanding of the industrial vacuum market in the US.

“Scott’s reputation preceded him; many years before our first contact, we knew him not only as a great sales manager, but as a highly knowledgeable expert in our field. His record of achievements in national sales, and his multiple skills, ranging from technical to sales and management made him the perfect fit to kick-start the development of the project in the US.” - Dimitri Di Salvo (Managing Director for Delfin Srl Italy)

“We are building a team of highly motivated and excited employees that are committed to our vision and core values. It is our intent to seek to understand customer needs in the market and form solid partnerships, which will enable us to provide a complete safe solution for mitigating combustible dust. Our strategy is specific to building a core foundation that will allow us to fill the increasing demand in the marketplace, due to changing regulations and standards.”- Boersma

Delfin’s entry will change the market of industrial vacuuming and dust extraction. Delfin not only brings new products and solutions to this market, but sets new standards with its flexible, consultancy, customer-oriented approach.





Visit the website!

All the data sheets, application photos and videos at your disposal!

Smartphone, Tablet, PC, you choose!

All of Delfin’s web channels have been designed to be fully responsive. This means our site is easy to navigate on any mobile device, for quick and effective browsing.

www.delfinindustrial.com



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Have problem, a question, or a request? No problem!

The service Delfin offers to its customers is not limited to traditional media. Our Customer Service team is always available to answer your questions on our chat on delfinvacuums.it as well as on all our social channels.

Applications



Plastic Industry



Glass Industry



Paper Industry



Wood Industry



Food Industry



Pharmaceutical Industry



Chemical, Oil & Gas Industry



Construction / Surface Preparation



Metal Working / Foundries / Cement / Ceramics



OEM (Fixed Vacuum Units)



Waste Management / Recycling



Car Wash / Vehicles Cleaning and Maintenance



Military



Marine / Shipyards



Engineering / Mechanics

Options



Automatic reverse pulse filter cleaning system



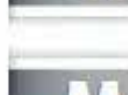
ELF Extra Large Filter, enlarged filtration surface.



Automatic Filter cleaning system.



Class H Filter for fine or toxic dust (efficiency 99.995% - 0,18 μ).



Class M Filter (efficiency $\geq 1\mu$)



Longopac[®] System



Antistatic/Grounding



Nomex filter, resistant to high temperatures up to 482°F



NFPA Compliant



Floating device for motor protection from liquids.



Toolman wheels, tires for uneven surfaces



Stainless Steel



Polytetrafluoroethylene, film cover that facilitate the detachment of wet, foamy or muddy materials from the filter.

Our focus is your safety, one dust particle at a time.

Safety is not just an abstract concept but a real philosophy at Delfin. From engineering to certification, our goal is to provide our customers with state of the art, safe, user-friendly extraction solutions.

	Class	Division	Group
Gases, vapors, & liquids	I	Div 1, NORMALLY PRESENT	A, B, C, D
	I	Div 2, ABNORMALLY PRESENT	A, B, C, D
Dusts	II	Div 1, NORMALLY PRESENT	E, F, G
	II	Div 2, ABNORMALLY PRESENT	E, F, G

Dust Category

Dust class	Filter Class	Maximum permeability
L low risk	L	< 1%
M medium risk	M	< 0.1%
H high risk	H	< 0.005%



Mistral

Compact Vacuum System

MISTRAL/ 301 DS



12



10.7 ft² filter class M certified



1 powerful Lamb-Ametek by-pass motor

- suction generated by a powerful single phase motor
- extreme safety offered by a large surface industrial filter
- DUSTOP filter cleaning system using pressure differential
- possibility to recover of dust from power tools thanks to the automatic start / stop option
- many possible configurations: HEPA filter, stainless steel construction, NOMEX filter, etc.



Detachable container for fast discharge

		301 DS
Voltage	V	115 1ph
Frequency	Hz	60
Power	HP (kW)	1.3 (1)
Water Lift	inH20 (mmH20)	98 (2500)
Air flow max.	CFM (m ³ /h)	106 (180)
Filter surface	ft ² (m ²)	6.5 (6)
Filter Class	(IEC 60335-2-69) optional	M
HEPA-Filter Surface	ft ² (m ²)	22 (2.05)
HEPA-Filter	(EN1822)	H14
Capacity	gal (lt)	3.5 (13)
Suction inlet	in (mm)	2 (50)
Noise level	dB(A)	74
IP-Class	CL	1
Dimensions	in (cm)	18x19x33 (46x48x85)



MISTRAL/ 501 WD



The most compact wet & dry vacuum system in the Delfin range:

- 100% steel construction (INOX available as an option)
- suitable for wet & dry service (floating device, wet PPL & dry starfilters included)
- 1.5" accessory kit included
- hose for liquid discharge included
- compact and portable, ideal for cleaning contractors

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MISTRAL/ 802 WD



Wet & dry vacuum system for any kind of application

- 100% Steel construction, compact and sturdy
- self cleaning dry double filter
- PPL anti-foam 300 micron wet filter
- floating device and liquid discharge hose
- 2.2" accessory kit included



		501 WD	802 WD
Voltage	V	115 1ph	230 1ph
Frequency	Hz	60	60
Power	HP (kW)	1.3 (1)	2.7 (2)
Water Lift	inH2O (mmH2O)	98 (2500)	98 (2500)
Air flow max.	CFM (m ³ /h)	106 (180)	212 ((360)
Filter surface	ft ² (m ²)	8.6 (0.8)	8.6 (0.8)
Filter Class	(IEC 60335-2-69)	L	L
Capacity	gal (lt)	13 (50)	21 (80)
Suction inlet	in (mm)	2 (50)	3 (80)
Noise level	dB(A)	74	76
IP-Class	CL	1	1
Dimensions	n (cm)	30x16x35 (52x40x90)	21x26x43 (53x66x108)



High performance compact vacuum system

MISTRAL/ 202 DS



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DUSTOP filter cleaning system using pressure differential



2 powerful Lamb-Ametek by-pass motors

32 ft² filter class M certified



Additional H14 HEPA filter available as option

The Mistral 202 DS, compact and powerful, is the true best seller of the light industrial Mistral line. Its unique technical features make it the best vacuum system in its category, unmatched on the market. From food industry to construction, from pharmaceutical labs to surface preparation operations, the Mistral 202 DS continues to solve cleaning and dust extraction problems of industry professionals worldwide. No application is impossible for this great compact vacuum system.

- best filtration of the category
- direct bagging in disposable bags
- 100% steel construction
- D40 accessories included
- DUSTOP filter cleaning system using pressure differential
- easy to use and transport



MISTRAL/ 202 DS LP



The perfect solution for a safer collection of dust

- ideal for construction and surface treatment applications
- safe suction of toxic and fine dust
- 5.5 gal. Longopac™ bag for safe collection
- DUSTOP filter cleaning system using pressure differential
- easy to use and to transport thanks to the height adjustment system

MISTRAL/ 202 DS ECO T/M



The most compact solution for continuous duty use

- highest filtration efficiency in its segment
- DUSTOP filter cleaning system using pressure differential
- suitable for continuous duty, three phase motor
- vacuum directly into disposable bags
- easily transportable

		202 DS	202 DS LP	202 DS ECOT	202 DS ECO M
Voltage	V	115 1ph	115 1ph	115 or 230 1ph	230 or 460 3ph
Frequency	Hz	60	60	60	60
Power	HP (kW)	2.7 (2)	2.7 (2)	3 (2.2)	3 (2.2)
Water Lift	inH2O (mmH2O)	98 (2500)	98 (2500)	94 (2400)	94 (2400)
Air flow max.	CFM (m³/h)	212 (320)	212 (320)	177 (300)	177 (300)
Filter surface	ft² (m²)	32 (3)	32 (3)	32 (3)	32 (3)
Filter Class	(IEC60335-2-69)	M	M	M	M
HEPA-Filter Surface	ft² (m²)	22 (2)	22 (2)	22 (2)	22 (2)
HEPA-Filter	(EN1822)	H14	H14	H14	H14
Capacity	gal (lt)	5.3 (20)	Longopac	5.3 (20)	5.3 (20)
Suction inlet	in (mm)	2 (50)	2 (50)	2 (50)	2 (50)
Noise level	dB(A)	76	76	70	70
IP-Class	IP	CL. 1	CL. 1	55	55
Dimensions	cm	59 X 48 X 110 h	50 X 48 X 125 h	50 X 48 X 120 h	50 X 48 X 120 h

Mistral

Compact Vacuum System

MISTRAL/ 352 DS

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Power tool electric socket,
max 600 Watt



Detachable container for
fast discharge



2 powerful Lamb-Ametek
by-pass motors

High surface filter class L
certified



Multifunctional industrial vacuum system

The Mistral 352 DS vacuum cleaner is ideal for cleaning and handling of small and medium amount of materials, particularly in the chemical-pharmaceutical industry, in the food industry and in the cereal milling industry. Extremely flexible and robust, it combines the sturdiness and performance of a true industrial vacuum system with an attractive look and an extreme ease of use.



Competitive advantages

- high level of filtration
- total steel construction
- D50 accessories included
- integrated filter cleaning system
- option for detachable container to directly bag recovered materials
- filter efficiency sensor
- toolman version with tires for uneven terrain available
- simultaneous aspiration of solids, powders and liquids (with floating device)



352DS Toolman

		352 DS
Voltage	V	115 1ph
Frequency	Hz	60
Power	HP (kW)	2.7 (2)
Water Lift	inH2O (mmH2O)	98 (2500)
Air flow max.	CFM (m ³ /h)	212 (320)
Filter surface	ft ² (m ²)	21.5 (2)
Filter Class	(IEC 60335-2-69)	L
HEPA-Filter Surface	ft ² (m ²)	30 (2.8)
HEPA-Filter	(EN1822)	H14
Capacity	gal (lt)	9 (35)
Suction inlet	in (mm)	3 (80)
Noise level	dB(A)	76
IP-Class	IP	F
Dimensions	in (cm)	22x24x49 (55x62x125)



High performance compact vacuum system

MISTRAL/ 4533 - 4534 - 4535

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Powerful and silent side channel blower



The Mistral 4533 - 4534 - 4535 is one of the most compact and powerful three-phase industrial vacuum cleaners in the world.

- high level of filtration
- Sturdy steel construction
- D50 accessories included
- Integrated filter cleaning
- filter efficiency sensor
- extremely quiet



High surface filter class L certified



Detachable container for fast discharge

		4533	4534	4535
Voltage	V	230 or 460 3ph	230 or 460 3ph	230 or 460 3ph
Frequency	Hz	60	60	60
Power	HP (kW)	3.5 (2.55)	4.5 (3.4)	6 (4.6)
Water Lift	inH ₂ O (mmH ₂ O)	98 (2500)	118 (3000)	126 (3200)
Air flow max.	CFM (m ³ /h)	212 (360)	235 (400)	294 (500)
Filter surface	ft ² (m ²)	21.5 (2)	21.5 (2)	21.5 (2)
Filter Class	(IEC 60335-2-69)	L	L	L
HEPA-Filter Surface	ft ² (m ²)	30 (2.8)	30 (2.8)	30 (2.8)
HEPA-Filter	(EN1822)	H14	H14	H14
Capacity	gal (lt)	12 (45)	12 (45)	12 (45)
Suction inlet	in (mm)	3.1 (80)	3.1 (80)	3.1 (80)
Noise level	dB(A)	69	69	69
IP-Class	IP	55	55	55
Dimensions	in (cm)	39x22x49 (100x55x125)	39x22x49 (100x55x125)	39x22x49 (100x55x125)

recommended kit
TA.0400.0000



MISTRAL/ PHARMA 20 - 30



DUSTOP filter cleaning system
using pressure differential



32 ft² filter class M certified



Powerful and silent side
channel blower

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The Mistral Pharma is an industrial vacuum system which has been engineered to the requirements of the pharmaceutical, chemical and food industries.

- best primary filter in its category
- suitable for continuous service
- direct bagging option
- total steel construction (304 or 316 available)
- integrated safety filter
- DUSTOP filter cleaning system using pressure differential
- extremely quiet
- Class II DIV. 1 & 2 versions available
- smooth surfaces/ easy to clean

		PHARMA 20		PHARMA 30	
Voltage	V	230	or 460	3ph	230 or 460 3ph
Frequency	Hz	60			60
Power	HP (kW)	3 (2.2)			3.5 (2.55)
Water Lift	inH ₂ O (mmH ₂ O)	94 (2400)			98 (2500)
Air flow max.	CFM (m ³ /h)	177 (300)			212 (360)
Filter surface	ft ² (m ²)	32 (3)			32 (3)
Filter Class	(IEC 60335-2-69)	M			M
HEPA-Filter Surface	ft ² (m ²)	22 (2.05)			22 (2.05)
HEPA-Filter	(EN1822)	H14			H14
Volume	gal (lt)	8.5 (33)			8.5 (33)
Suction inlet	in (mm)	2 (50)			2 (50)
Noise level	dB(A)	67			67
IP-Class	IP	55			55
Dimensions	in (cm)	20X27x58 (52x69x147)			20X27X58 (52x69x147)



High performance industrial vacuum system

DM/ DM3



3 powerful Lamb-Ametek by-pass motors
Made in America
800w motors = 115v plug



More reliable controls

Electric cable reel



High surface filter class L certified



Safety lock

Accessory and double bend housing

Detachable container with offset handles for easy disposal

Other version DM3 DUST H



Suitable for Class H toxic dusts

DM3 PN



Automatic filter cleaning system



TA.0181.0000 - Recommended accessories kit



DM3, the industrial vacuum system for excellence. There are no impossible applications for the DM3, from the laboratory to the workshop, from metal working to the cement industry. This model was developed in its first version, more than 15 years ago, to meet a wide range of requirements. It has been completely re-designed in order to make it even more user friendly and versatile, while improving its industrial design.

- wide range of applications
- simultaneous suction of powders, liquids and solids
- 100% steel construction
- innovative container detachment system
- integrated manual filter shaker
- large surface star filter
- optional extra large filter



		DM3
Voltage	V	230 1ph
Frequency	Hz	60
Power	HP (kW)	4.6 (3.45)
Water Lift	inH2O (mmH2O)	98 (2500)
Air flow max.	CFM (m ³ /h)	318 (540)
Filter surface	ft ² (m ²)	21.5 (2)
Filter Class	(IEC 60335-2-69)	L
HEPA-Filter Surface	ft ² (m ²)	29 (2.65)
HEPA-Filter	(EN1822)	H14
Capacity	gal (lt)	26.5 (100)
Suction inlet	in (mm)	3.1 (80)
Noise level	dB(A)	76
IP-Class	IP	F
Dimensions	in (cm)	30X26X59 (77x66x150)



High performance industrial vacuum system

DM/ DM40 OIL



3 powerful Lamb-Ametek by-pass motors



TA.0188.0000
Recommended accessories kit



8.6 ft² class L filter with additional anti foam filter



Detachable container for easy disposal



Visual liquid level indicator

The DM 40 OIL has been designed to meet the most demanding requirements of extraction and recovery of liquids, oils and emulsions, whether or not mixed with dust or mud.

- integrated sieve grid for shavings and oil filtration
- liquid level indicator
- possible to vacuum even dry materials, thanks to the additional polyester filter
- interchangeable motor head; single, three-phase or compressed air

		DM40 OIL
Voltage	V	230 1ph
Frequency	Hz	60
Power	HP (kW)	4.6 (3.45)
Water Lift	inH ₂ O (mmH ₂ O)	98 (2500)
Air flow max.	CFM (m ³ /h)	318 (540)
Capacity	gal (lt)	26.5 (100)
Shaving grid volume	gal (lt)	10.5 (40)
Floating device		Yes
Suction inlet	in (mm)	3.1 (88)
Noise level	dB(A)	76
IP-Class	IP	F
Dimensions	in (cm)	33x26x49 (84x66x125)

DM/ DM 40 WD



Wet & dry industrial vacuum system for any application

- high collection capacity
- 100% steel construction (optional 304 or 316 stainless steel)
- integrated float and discharge valve
- dry filter included

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DM/ DM 40



High performing industrial vacuum system

- wide range of applications
- 100% steel construction
- large capacity detachable container
- integrated filter cleaning system
- large surface star filter
- optional extra large star filter



TA.0181.0000 - Accessories kit suggested

		DM40 WD	DM40
Voltage	V	230 1ph	230 1ph
Frequency	Hz	60	60
Power	HP (kW)	4.5 (3.45)	4.5 (3.45)
Water Lift	inH2O (mmH2O)	98 (2500)	98 (2500)
Air flow max.	CFM (m ³ /h)	318 (540)	318 (540)
Filter surface	ft ² (m ²)	21.5 (2)	21.5 (2)
Filter Class	(IEC 60335-2-69)	L	L
HEPA-Filter Surface	ft ² (m ²)	29 (2.65)	29 (2.65)
HEPA-Filter	(EN1822)		H14
Suction inlet	in (mm)	3.1 (80)	3.1 (80)
Noise level	dB(A)	76	76
IP-Class	IP	F	F
Dimensions	in (cm)	27x25x49 (68x63x125)	27x25x49 (68x63x125)



ENTRY LEVEL: great performance, competitive pricing

DMEL/ DM3 B

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21.53 ft² class L filter

Detachable container

The vacuum systems which compose the DM ENTRY LEVEL line are the products with the best value for your money of any Delfin system. Simplicity, practicality, performance, durability are the values that distinguish them.

- simultaneous suction of solids, powders and liquids
- optional detachable container with direct bagging
- large surface pocket filter with integrated manual cleaning system
- great durability

		DM3 B
Voltage	V	230 1ph
Frequency	Hz	60
Power	HP (kW)	4.6 (3.45)
Water Lift	inH ₂ O (mmH ₂ O)	98 (2500)
Air flow max.	CFM (m ³ /h)	318 (540)
Filter surface	ft ² (m ²)	21.5 (2)
Capacity	gal (lt)	16 (60)
Suction inlet	in (mm)	3.1 (80)



DM/ DM2 B



Industrial vacuum system

- two powerful by-pass motors
- industrial design, 100% steel construction (304 stainless steel option)
- large pocket filter
- functional and easy to use

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DM/ DM3 B LP



Industrial vacuum system with LONGOPAC® safe bagging system

- perfect for floor preparation machines (grinders, polishers, etc.)
- LONGOPAC® safe bagging dust collection system
- integrated filter shaker
- large filter surface



TA.0181.0000 - Accessories kit suggested

		DM2 B	DM3 B LP
Voltage	V	115 1ph	230 1ph
Frequency	Hz	60	60
Power	HP (kW)	2.6 (2)	4.6 (3.45)
Water Lift	inH2O (mmH2O)	98 (2500)	98 (2500)
Air flow max.	CFM (m ³ /h)	212 (360)	318 (540)
Filter surface	ft ² (m ²)	21.5 (2)	21.5 (2)
Filter Class	(IEC 60335-2-69)	L	L
HEPA-Filter Surface OPTIONAL	ft ² (m ²)	29 (2.65)	29 (2.65)
Capacity	gal (lt)	16 (60)	Longopac
Suction inlet	in(mm)	3.1 (80)	3.1 (80)
Noise level	dB(A)	76	76
Dimensions	in (cm)	26x26x53 (67x66x134)	26x26x53 (67x66x134)



High performance three-phases industrial vacuum system



ZEFIRO/ ZEFIRO EL B1/B3

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High performance industrial vacuum system

- suitable for wet, dry, dust applications
- powerful and reliable side channel blower
- 100% steel construction
- large capacity detachable container
- integrated filter cleaning system
- large surface star filter



		ZEFIRO B1	ZEFIRO B3	ZEFIRO B3 HD
Voltage	V	115 or 230 1ph	230 or 460 3ph	230 or 460 3ph
Frequency	Hz	60	60	60
Power	HP (kW)	3.5 (2.6)	3.5 (2.6)	6 (4.6)
Water Lift	inH2O (mmH2O)	59 (1500)	59 (1500)	118 (3000)
Air flow max.	CFM (m ³ /h)	235 (400)	235 (400)	271 (460)
Filter surface	ft ² (m ²)	21.5 (2)	21.5 (2)	21.5 (2)
Filter Class	(IEC 60335-2-69)	L	L	L
HEPA-Filter Surface	ft ² (m ²)	29 (2.65)	29 (2.65)	29 (2.65)
HEPA-Filter	(EN1822)	H14	H14	H14
Capacity	gal (lt)	16 (60)	16 (60)	16 (60)
Suction inlet	in (mm)	3.1(80)	3.1 (80)	3.1 (80)
Noise level	dB(A)	74	74	76
IP-Class	IP	55	55	55
Dimensions	in (cm)	26x26x67 (67x66x170)	26x26x67 (67x66x170)	26x26x67 (67x66x170)

Accessories kit suggested
TA.0181.0000



ZEFIRO/ ZEFIRO 75

Electric cable reel



Accessory and double
bend housing



All the compactness of vertical industrial vacuum system with the power of a side channel blower. It is an ideal industrial vacuum for all applications where high performance and high mobility are required in relatively small spaces. The extreme flexibility of use allows this model to operate effectively and successfully in any industry.

- best seller in the three-phase vertical category
- continuous duty service 24/7 motor free of maintenance
- wide variety of application
- D50 kit recommended accessories (optional)
- 26.5 gallon detachable container

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		ZEFIRO 75
Voltage	V	230 or 460 3ph
Frequency	Hz	60
Power	HP (kW)	4.5 (3.4)
Water Lift	inH2O (mmH2O)	118 (3000)
Air flow max.	CFM (m ³ /h)	235 (400)
Filter surface	ft ² (m ²)	21.5 (2)
Filter Class	(IEC 60335-2-69)	L
HEPA-Filter Surface	ft ² (m ²)	29 (2.65)
HEPA-Filter	(EN1822)	H14
Capacity	gal (lt)	26.5 (100)
Suction inlet	in (mm)	3.1 (80)
Noise level	dB(A)	75
IP-Class	IP	55
Dimensions	in (cm)	30x26x67 (58x60x170)



High performance three-phases industrial vacuum system

DG / DG 30 - 50 -70



DG certified for asbestos abatement

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Accessory gasket



Electric cable reel



Powerful three-phase motor



32 ft² filter class L certified

Safety Lock



Detachable container for fast discharge

The DG line is composed of industrial vacuum systems equipped with side channel blowers from 3 to 60 HP. These sturdy machines are ideal for the removal of solid materials, heavy dust, also mixed with solids.



Available with SPARK TRAP system for the safe suction of sparks and white-hot dust.



The DG is the direct result of Delfin's twenty years of expertise in the construction of three phase industrial vacuum systems. Like most of our vacuum systems these find application in almost any industry and professional sector. Large capacity, power and robustness make it a safe investment for any enterprise.

- the most compact of the three-phase vacuum system lines with motor in the rear cart
- maintenance-free motor
- high filtration efficiency
- robust, compact and easy to use

		DG 30	DG 50	DG 70
Voltage	V	230 or 460 3ph	230 or 460 3ph	230 or 460 3ph
Frequency	Hz	60	60	60
Power	HP (kW)	3.5 (2.5)	6 (4.6)	8.5 (6.3)
Water Lift	inH ₂ O (mmH ₂ O)	98 (2500)	126 (3200)	98 (2500)
Air flow max.	CFM (m ³ /h)	224 (380)	294 (500)	353 (600)
Filter surface	ft ² (m ²)	21.5 (2)	32.3 (3)	32.3 (3)
Filter Class	(IEC 60335-2-69)	L	L	L
HEPA-Filter Surface	ft ² (m ²)	29 (2.65)	29 (2.65)	56 (5.2)
HEPA-Filter	(EN1822)	H14	H14	H14
Volume	gal (lt)	26.5 (100)	26.5 (100)	26.5 (100)
Suction inlet	in (mm)	3.1 (80)	3.1 (80)	3.1 (80)
Noise level	dB(A)	74	76	76
IP-Class	IP	55	55	55
Dimensions	in (cm)	26x46x57 (66x118x150)	26x46x57 (66x118x150)	26x46x57 (66x118x150)



High performance three-phases industrial vacuum system

DG / DG 75 - DG 75 AF



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The most powerful and the most efficient vacuum system in its category

- the most powerful motor in its category
- outstanding filtration efficiency
- integrated safety filter
- integrated pressure relief valve
- tangential suction inlet with integrated cyclone
- Spark Trap option available for DG 75 AF





- 1. High surface star filter
- 2. Safety filter
- 3. Diffusion filter
- 4. Electric switch
- 5. Cyclon
- 6. Side channel blower
- 7. Safety valve
- 8. Lever for the detachment of the container

		DG 75	DG 75 AF
Voltage	V	460 3ph	460 3ph
Frequency	Hz	60	60
Power	HP (kW)	11.5 (8.6)	11.5 (8.6)
Water Lift	inH2O (mmH2O)	157 (4000)	118 (3000)
Air flow max.	CFM (m ³ /h)	371 (630)	500 (850)
Filter surface	ft ² (m ²)	52.7 (4.9)	52.7 (4.9)
Filter Class	(IEC 60335-2-69)	L	L
HEPA-Filter Surface	ft ² (m ²)	56 (5.2)	56 (5.2)
HEPA-Filter	(EN1822)	H14	H14
Capacity	gal (lt)	26.5 (100)	26.5 (100)
Suction inlet	in (mm)	3.1 (80)	3.1 (80)
Noise level	dB(A)	76	76
IP-Class	IP	55	55
Dimensions	in (cm)	26x49x69 (67x125x175)	26x49x69 (67x125x175)



Heavy duty industrial vacuum system

DG VL/ DG VL 75



Heavy duty industrial vacuum system

- heavy duty, powerful three phase vacuum
- high filtration, integrated semi-automatic SELF CLEAN filter cleaning system
- integrated pressure relief valve
- suitable for heavy duty applications, both in mobile service and central vacuum systems
- spark trap option available

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DG VL/ DG VL 110



Heavy duty industrial vacuum system

- heavy duty, powerful three phase vacuum
- high filtration, integrated semi-automatic SELF CLEAN filter cleaning system
- integrated pressure relief valve
- suitable for heavy duty applications, both in mobile service and central vacuum systems
- spark trap option available

		DG VL 75	DG VL 110
Voltage	V	460 3ph	460 3ph
Frequency	Hz	60	60
Power	HP (kW)	11.5 (8.6)	17 (12.6)
Water Lift	inH2O (mmH2O)	157 (4000)	157 (4000)
Air flow max.	CFM (m ³ /h)	530 (900)	706 (1200)
Filter surface	ft ² (m ²)	75.35 (7)	75.35 (70)
Filter Class	(IEC 60335-2-69)	L	L
HEPA-Filter Surface	ft ² (m ²)	56 (5.2)	111 (10.35)
HEPA-Filter	(EN1822)	H14	H14
Capacity	gal (lt)	42 (160)	42 (160)
Suction inlet	in (mm)	4.7 (120)	4.7 (120)
Noise level	dB(A)	72	75
Dimensions	in (cm)	30x71x79 (152x68x180)	30x71x79 (152x68x180)



DG VL/ DG VL 125

Heavy duty industrial vacuum system

- heavy duty, powerful three phase vacuum
- high filtration, integrated semi-automatic SELF CLEAN filter cleaning system
- integrated pressure relief valve
- suitable for heavy duty applications, both in mobile service and central vacuum systems
- spark trap option available



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DG VL/ DG VL 185

Heavy duty industrial vacuum system

- heavy duty, powerful three phase vacuum
- high filtration, integrated semi-automatic SELF CLEAN filter cleaning system
- integrated pressure relief valve
- suitable for heavy duty applications, both in mobile service and central vacuum systems
- spark trap option available



		DG VL 125	DG VL 185
Voltage	V	460 3ph	460 3ph
Frequency	Hz	60	60
Power	HP (kW)	19.5 (14.5)	28.5 (21.3)
Water Lift	inH2O (mmH2O)	157 (4000)	157 (4000)
Air flow max.	CFM (m ³ /h)	765 (1300)	942 (1600)
Filter surface	ft ² (m ²)	75.35 (7)	75.35 (7)
Filter Class	(IEC 60335-2-69)	L	L
HEPA-Filter Surface	ft ² (m ²)	111 (10.35)	111 (10.35)
HEPA-Filter	(EN1822)	H14	H14
Capacity	gal (lt)	42 (160)	42 (160)
Suction inlet	in (mm)	4.7 (120)	4.7 (120)
Noise level	dB(A)	75	76
Dimensions	in (cm)	30x71x79 (152x68x180)	30x71x79 (152x68x180)



Heavy duty industrial vacuum system

DG HD/ DG 200 - 300 HD

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Integrated compressor for the automatic cleaning of the filter



129 ft² class L filter



Incredibly powerful three phase motor

Detachable container for fast discharge





Best performing vacuum system in the Delfin range

Powerful, integrated automatic filter cleaning systems, these are just some of the reasons why the DG 200 and 300 HD are not only industrial vacuum systems, but real tools for material handling.

DG machines are capable of increasing the efficiency and productivity of any industry, from cement plants to foundries. Wherever there are large and heavy amounts of materials, even several cubic feet, these vacuums make the difference.

Ideal for being used as vacuum units on centralized vacuum systems in combination with Delfin’s filtering and separating units.

Features

- best power / filtration ratio in their category
- maximum portability and modularity
- machine designed for heavy industry
- automatic filter cleaning system as standard

		DG 200	DG 300 HD
Voltage	V	460 3ph	460 3ph
Frequency	Hz	60	60
Power	HP (kW)	28.5 (21.3)	39 (29)
0	inH2O (mmH2O)	173 (4400)	177 (4500)
Air flow max.	CFM (m ³ /h)	134 (3400)	108 (2750)
Filter surface	ft ² (m ²)	129 (12)	129 (12)
Filter Class	(IEC 60335-2-69)	L	L
HEPA-Filter Surface	ft ² (m ²)	111 (10.35)	111 (10.35)
HEPA-Filter	(EN1822)	H14	H14
Capacity	gal (lt)	58 (220)	58 (220)
Suction inlet	in (mm)	4.7 (120)	4.7 (120)
Noise level	dB(A)	77	78
IP-Class	IP	65	65
Dimensions	in (cm)	36x87x87 (92x220x220)	36x87x87 (92x220x220)

OPTIONS

We offer our customers such a wide range of customizations and options to be combined with our standard vacuums that it is possible to create more than 1500 configurations.

ELF: EXTRA LARGE FILTER

DG 70

<i>Standard filter surface</i>	ft ² (m ²)	32.3 (3)
<i>Extended filter surface</i>	ft ² (m ²)	56 (4.9)
<i>Air load on filter</i>	ft/min (m ³ /h/m ²)	10.9 (112)

FILTER CLEANING SYSTEMS



PN: Reserve air pulse automatic filter cleaning system.



AUT: Automatic filter cleaning system



SE: Side channel blower with two turbines in series





DG/ DG 50 SE

- most compact of the three-phase vacuum system lines with a rear motor
- maintenance-free motor
- high filtration energy
- ideal for vacuuming heavy/ dense materials

DG/ DG VL 110 SE - 150 SE

- heavy duty, powerful three-phase vacuum
- high filtration capacity with SELF CLEAN system
- ability to vacuum dust, liquids, and solids
- integrated pressure release valve
- ideal for central vacuum systems



DG/ DG 300 SE

- best "air load on filter" value in its category
- maximum portability
- automatic filter cleaning system
- ideal for heavy industrial use, such as sand blasting, foundry, and steel mills

		DG 50 SE	DG VL 110 SE	DG VL 150 SE	DG 300 SE
Voltage	V	230 or 460 3ph	460 3ph	460 3ph	460 3ph
Frequency	Hz	60	60	60	60
Power	HP (kW)	6.4 (4.8)	17 (12.6)	23.2 (17.3)	31 (23)
Water Lift	inH ₂ O (mmH ₂ O)	157 (4000)	236 (6000)	236 (6000)	236 (6000)
Air flow max.	CFM (m ³ /h)	224 (380)	341 (580)	500 (850)	173 (4400)
Filter surface	ft ² (m ²)	32 (3)	75 (7)	75 (7)	129 (12)
Filter Class	(IEC 60335-2-69)	L	L	L	L
HEPA-Filter Surface	ft ² (m ²)	29 (2.65)	56 (5.2)	56 (5.2)	111 (10.35)
HEPA-Filter	(EN1822)	H14	H14	H14	H14
Capacity	gal (lt)	26 (100)	42 (160)	42 (160)	58 (220)
Suction inlet	in (mm)	3 (80)	4.7 (120)	4.7 (120)	4.7 (120)
Noise level	dB(A)	73	71	78	77
IP-Class	IP	55	65	65	65
Dimensions	in (cm)	26x46x57 (66x118x145)	30x71x79 (770x180x200)	30x71x79 (770x180x200)	36x87x87 (92x220x220)



Vacuuming separators for the collection of large quantities of materials

B200M



Compact vacuuming separator

- Ideal for the suction of large quantities of material (53 gal.)
- Suction generated by 3 powerful single phase motors
- Complete and fast discharge of the material thanks to the tilting tank
- Forklift ready

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C600M



Heavy duty single phase vacuuming separator

- Ideal for the suction of large quantities of material (159 gal.)
- Suction generated by 3 powerful single phase motors
- Complete and fast discharge of the material thanks to the special design of the tank
- Forklift ready
- Designed for heavy duty applications

		B200 M	C600 M
Voltage	V	230 1ph	230 1ph
Frequency	Hz	60	60
Power	HP (kW)	4 (3)	4.5 (3.45)
Water Lift	inH2O (mmH2O)	98 (2500)	98 (2500)
Air flow max.	CFM (m ³ /h)	318 (540)	318 (540)
Filter surface	ft ² (m ²)	13 (1.2)	32.3 (3)
Filter Class	(IEC 60335-2-69)	L	L
Capacity	gal (lt)	53 (200)	159 (600)
Suction inlet	in (mm)	3.1 (80)	3.1 (80)
Noise level	dB(A)	77	76
Dimensions	in (cm)	37x32x49 (93x81x125)	39x49x88 (98x125x224)

C600 T75

Heavy duty three phase vacuuming separator

- Ideal for the suction of large quantities of material (158 gal.)
- Suction generated a powerful three-phase side channel blower
- Complete and fast discharge of the material thanks to the special design of the tank
- Forklift ready



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C600 T125

Heavy duty three phase vacuuming separator

- Ideal for the suction of large quantities of material (159 gal.)
- Suction generated a powerful three-phase side channel blower
- Complete and fast discharge of the material thanks to the special design of the tank
- Forklift ready



		C600 T75	C600 T125
Voltage	V	460 3ph	460 3ph
Frequency	Hz	60	60
Power	HP (kW)	11.5 (8.6)	19.5 (14.5)
Water Lift	inH2O (mmH2O)	118 (3000)	157 (4000)
Air flow max.	CFM (m ³ /h)	500 (850)	765 (1300)
Filter surface	ft ² (m ²)	32.5 (3)	32.5 (3)
Filter Class	(IEC 60335-2-69)	L	L
Capacity	gal (lt)	159 (600)	159 (600)
Suction inlet	in (mm)	3.1 (120)	3.1 (120)
Noise level	dB(A)	75	75
Dimensions	in (cm)	87x39x87 (220x100x220)	87x39x87 (220x100x220)

TECNOIL/ TC 100 IF

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Flux inversion liquids discharge system (26 gal/min)

Powerful three-phase motor



Visual liquid level indicator



Sieve grid for metal chip filtration with detachable container for fast discharge and floating device

The Tecnoil 100 IF was born from the need, developed in metalworking industries around the world, to acquire a powerful and compact vacuum cleaner, able to work in continuous duty applications, with low cost of purchase and maintenance. This model fulfills all of these needs, exceeding the expectations of operators around the world.

- maintenance free motors
- ideal for continuous duty applications
- detachable container
- sieve grid for the filtration of metal chips
- reverse air flow system for the fast discharge of liquids (26 gal/min avg)

TA.0190.0000 Recommended accessory kit



TECNOIL/ TC 100 IF DM3

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- The perfect combination of compact design, power and usability*
- the most powerful single phase industrial vacuum in this segment
 - independent discharge pump for reintroduction of filtered liquids
 - options for oil filtration available from 300 down to 6 microns
 - integrated sieve grid for oil / chip separation
 - integrated level indicator and floating device shuts down system when tank is full
 - powerful motor recycles 26 gallons of oil in 60 seconds



		TECNOIL 100 IF	TECNOIL 100 IF DM3
Voltage	V	230 or 460 3ph	230 or 460 1ph
Frequency	Hz	60	60
Power	HP (kW)	4.5 (3.5)	4.6 (3.45)
Water Lift	inH ₂ O (mmH ₂ O)	118 (3000)	98 (2500)
Air flow max.	CFM (m ³ /h)	235 (300)	318 (540)
Capacity	gal (lt)	26 (100)	26 (100)
Shaving grid volume	gal (lt)	10.5 (40)	10.5 (40)
Floating device		Yes	Yes
Suction inlet	in (cm)	2 (50)	2 (50)
Noise level	dB(A)	78	76
IP-Class	IP	55	55
Dimensions	in (cm)	33x26x60 (86x66x153)	33x26x49 (84x66x125)



Powerful industrial vacuum system for oil, coolant and swarf



TECNOIL/ TC 200 IF

Flux inversion liquid discharge system(26 gal/min)

Powerful three-phase motor

Liquids container 53 gallon capacity with an automatic stop sensor for when the tank is full



Detachable container with integrated sieve grid for metal chips separation

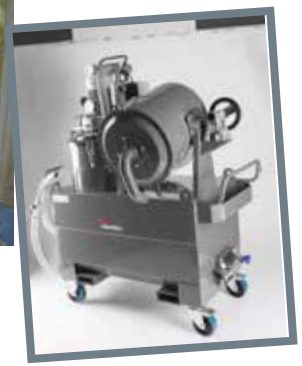
Tecnoil 200 DM3



Thanks to the power and the enormous capacity of this machine, you can collect liquids, filter metal chips and pump oils or emulsions back into the machine tool in less than 5 minutes. This machine allows you to minimize the maintenance time, maximizing profitability.

- designed and built for the metalworking and mechanical industries
- large recovery container
- can filter the collected liquids from 300 down to 6 microns
- independent pump quickly empties the container (79 gal/min)

TA.0190.0000



TECNOIL/ TECNOIL 400 IF



The best sump cleaner for medium to large metalworking applications

- perfect combination of power, capacity and maneuverability
- flux inversion liquid discharge system(26.4 gal/min)
- independent discharge pump for reintroduction of filtered liquids optional
- integrated tilting hopper for easy disposal of solid material (chips, shavings etc.)
- integrated level indicator and floating device
- 360 degree machine access via pivoting hose connection

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TECNOIL/ TECNOIL 600 IF



The most powerful and highest capacity vacuum in the Tecnoil range

- great performance even in continuous duty applications
- massive recovery capacity (161 gal.)
- powerful Independent discharge pump standard
- available option for oil filtration down to 6 microns
- able to recover large quantities of dense oil, swarf and sludge

		TECNOIL 200 IF	TECNOIL 200 DM3	TECNOIL 400 IF	TECNOIL 600 IF
Voltage	V	230 or 460 3 ph	230 or 460 1ph	230 or 460 3ph	230 or 460 3ph
Frequency	Hz	60	60	60	60
Power	HP (kW)	4.5 (3.4)	4.6 (3.5)	6.17 (4.6)	16.9 (12.6)
Water Lift	inH ₂ O (mmH ₂ O)	118 (3000)	98 (2500)	126 (3600)	236 (6000)
Air flow max.	CFM (m ³ /h)	235 (400)	318 (540)	294 (500)	344 (585)
Capacity	gal (lt)	53 (200)	53 (200)	106 (400)	161 (610)
Solids Capacity	gal (lt)	11 (40)	11 (40)	13 (50)	20 (75)
Floating device	Automatic Control	Yes	Yes	Yes	Yes
Suction inlet	in (mm)	2 (50)	2 (50)	2 (50)	2.4 (75)
Noise level	dB(A)	78	76	76	78
IP-Class	IP	55	55	55	55
Dimensions	in (cm)	43x26x71 (110x63x181)	43x26x58 (110x63x147)	55x28x71 (140x70x180)	28x77x77 (195x72x195)



Air powered industrial vacuum system

AIR/ AIR 50 WD



The most compact air driven vacuum system in Delfin range

- compact and portable
- suitable for wet & dry environments
- 100% Steel construction
- functional design for maximum ease of use
- ideal for service aboard ships and in shipyards

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Delfin designs and manufactures a complete range of air powered vacuum systems (without any electromechanical component) of various capacities and ideal for multiple applications. Capable of vacuuming dust, solids and liquids, these vacuum cleaners are mainly used in industrial plants in, shipyards or on board ships.

These pneumatic vacuum systems are extremely safe, compact and don't require any routine maintenance. Ideal for shipyards, applications on board ships, oil platforms and in all the workplaces where air supply is preferable to electricity.

AIR/ AIR 80 WD 1V - 2V



TA.0174.0000 - Accessory kit suggested



Pneumatically driven industrial vacuum system

- great capacity/dimensions ratio
- outstanding performance
- available with 2 pneumatic compressors
- compact and portable

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		AIR 50 WD	AIR 80 WD 1V	AIR 80 WD 2V
Air Supply Type		Pneumatic	Pneumatic	Pneumatic
Compressed air supply	gal/min (lt/min)	396.3 (1500)	396.3 (1500)	792.5 (3000)
Air supply internal diameter	in (mm)	0.4 (10)	0.4 (10)	0.4 (10)
Working pressure	bar	6	6	6
Water Lift	inH2O (mmH2O)	165 (4180)	165 (4180)	165 (4180)
Air flow max.	CFM (m ³ /h)	88 (150)	88 (150)	176 (300)
Filter surface	in ² (m ²)	8.6 (0.8)	8.6 (0.8)	8.6 (0.8)
Filter Class	(IEC 60335-2-69)	L	L	L
Volume	gal (lt)	13 (50)	21 (80)	21 (80)
Floating device		Yes	Yes	Yes
Suction inlet	in (mm)	1.97 (50)	3.15 (80)	3.15 (80)
Noise level	dB(A)	73	73	73
Dimensioni / Dimensions	in (cm)	20x16x35 (52x40x90)	21x26x43 (53x66x108)	21x26x43 (53x66x108)



Air powered industrial vacuum systems

AIR/ 202 DS AIR



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Air powered industrial vacuum cleaner with unique features

- best filtration of its segment
- DUSTOP filter cleaning system using pressure differential
- detachable container
- direct bagging system available
- maintenance free Venturi suction unit
- light and portable



TA.0184.0000 - Accessories kit suggested



DUSTOP

The DUSTOP filter cleaning system was introduced by Delfin in order to provide a semi-automatic cleaning of the filters, with maximum efficiency and functionality. The DUSTOP allows the operator to clean, with great efficiency, the filter, with two easy actions

- 1) The operator plugs the vacuum (directly on the hose, with the cap on the suction inlet or with the special guillotine)
- 2) Without switching the vacuum off, he opens 3/4 times in rapid succession the flap placed on the chamber.
- 3) The operator, having perfectly cleaned the filter, can go on vacuuming with the best performance.

AIR/ 352 DS AIR 1V - 2V



- Air powered industrial vacuum systems**
- great suction performances
 - available with 2 Venturi ejectors
 - maintenance free Venturi suction unit
 - integrated filter cleaning system
 - compact and easy to transport unit
 - detachable container with possibility of using disposable bags



		202 DS AIR	352 DS AIR 1V	352 DS AIR 2V
Type of power supply		Pneumatic	Pneumatic	Pneumatic
Air supply internal diameter	in (mm)	.375 (10)	.375 (10)	.375 (10)
Working pressure	PSI (bar)	87 (6)	87 (6)	87 (6)
Water Lift	inH2O	165 (4180)	165 (4180)	165 (4180)
Air flow max.	CFM (lt/min)	88 (150)	88 (150)	176 (300)
Filter surface	ft ² (m ²)	32.3 (3)	21.5 (2)	21.5 (2)
Filter Class	(IEC60335-2-69)	M	L	L
HEPA-Filter	(EN1822)	H14	H14	H14
HEPA-Filter Surface	ft ² (m ²)	22 (2.05)	4340	4340
Capacity	gal (lt)	5 (20)	9 (35)	9 (35)
Suction inlet	in (mm)	3.1 (80)	3.1 (80)	3.1 (80)
Noise level	dB(A)	73	73	73
Dimensions	in (cm)	23x19x40 (59x48x101)	22x24x50 (55x62x127)	22x24x50 (55x62x127)



Air powered heavy duty industrial vacuum systems

AIR/ AIR DM - AIR DM HD

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Two venturi ejectors or single multi-ejector unit, high filtration efficiency and 26 gallons of capacity make this model the flagship of Delfin's air powered line.

This machine has the best price / performance ratio in its category.

- the most powerful air powered vacuum among Delfin's range
- wide filtering surface
- ideal for shipyards, oil plants and platforms, ships

AIR/ 200 - 201



The most powerful and efficient air powered Delfin vacuum system

- great suction performance, ideal for heavy duty applications including shipyards and industrial sandblasting industry
- easy to transport thanks to the sturdy chassis and the forklift intakes
- self cleaning filtration system



		AIR DM	AIR DM HD	AIR 200	AIR 201
Type of power supply		Pneumatic	Pneumatic	Pneumatic	Pneumatic
Compressed air supply	GPM (lt/min)	793 (3000)	415 (1570)	555 (2100)	660 (2500)
Air supply internal diameter	in (mm)	.375 (10)	.375 (10)	.375 (10)	.375 (10)
Working pressure	PSI (bar)	87 (6)	87 (6)	87 (6)	87 (6)
Water Lift	inH2O (mmH2O)	165 (4180)	197 (5000)	197 (5000)	197 (5000)
Air flow max.	CFM (lt/min)	176 (300)	270 (450)	312 (530)	347 (590)
Filter surface	ft ² (m ²)	32.3 (3)	32.3 (3)	38.75 (3.6)	38.75 (3.6)
Filter Class	(IEC 60335-2-69)	L	L	M	M
Capacity	gal (lt)	26 (100)	26 (100)	53 (200)	53 (200)
Suction inlet	in (mm)	3.1 (80)	3.1 (80)	3.1 (80)	3.1 (80)
Dimensions	in (cm)	24x24x63 (62x62x160)	24x24x63 (62x62x160)	30x27x78 (77x68x198)	30x27x78 (77x68x198)

Industrial vacuums for hazardous environments

When do I need a vacuum system compliant with NEC & NFPA requirements?

The standards certify the presence of the necessary requirements for vacuum cleaners, turbines and other components, allowing them to operate safely in case of the presence of gas, mist, and/or potentially explosive dust in the atmosphere.

* These vacuums are also certified ATEX in the European Union.

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	Class	Division	Group
Gas, vapors, or liquids	I	Div 1, Hazard is normally present	A, B, C, D
	I	Div 2, Hazard is abnormally present	A, B, C, D
Dust	II	Div 1, Hazard is normally present	E, F, G
	II	Div 2, Hazard is abnormally present	E, F, G
Fibers and Flyables	III	Div 1 & Div 2	

Certifications for Hazardous Locations:

UL 1203 and CSA C22.2 No. 25 and No. 30 (only explosion-proof and dust ignition-proof vacuums are covered by this assessment):

NEC 500

Class I, Division 1, Group D, T3

Class II, Division 1, Groups E, F, and G, T320°F

Class III

ISA 12.12.01-2016 and CSA C22.2 No. 213-16 (only dust-tight vacuums are covered by this assessment):

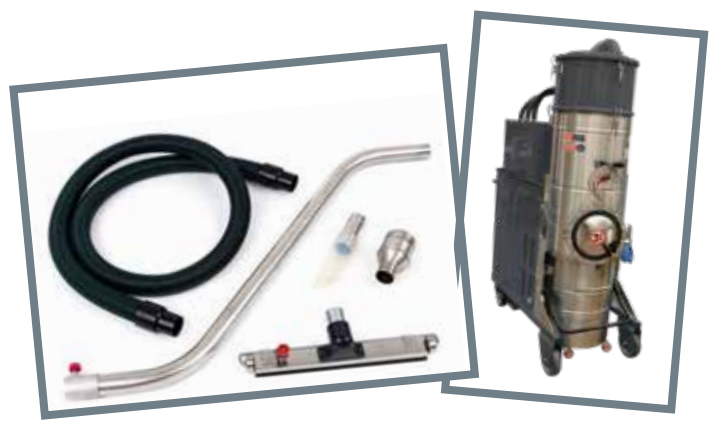
NEC 500

Class II, Division 2, Groups F and G, T320°F



NRTL Certified

Delfin industrial explosion-proof vacuum systems are Nationally Recognized Testing Laboratory (NRTL) certified, and are manufactured in order to avoid any risk of ignition in a potentially explosive environment. Each vacuum cleaner is designed to comply with higher standards, ensuring safety, quality and reliability. If you have to collect highly explosive dusts or need to use vacuum cleaners in potentially explosive atmospheres, our full range of NRTL-certified vacuum cleaners and accessories guarantees all the security and reliability you need.



Specific accessories kit



NFPA Compliant

Delfin Industrial offers a wide range of industrial vacuum systems which are NFPA compliant. From the most compact, transportable and resistant machine to the large fixed central vacuum systems, in variations customizable to meet every need.

- fully bonded and grounded
- UL-certified* motor with power ranging from 2.5 to 24.5 HP
- antistatic M-Class filter as a standard
- H-Class HEPA filter as a standard in some machines, where use applicable
- non-sparking stainless steel AISI 304 or 316 construction available

Our vacuums comply with the National Electric Code - Also referred to as NFPA 70, NEC 500



* some motors may be certified by NRTLs other than UL.

Pneumatic NFPA compliant industrial vacuum systems

Compressed air industrial vacuum systems

Delfin certified air powered industrial vacuums systems guarantee the highest safety level thanks to the absence of any electrical component.

- Outstanding suction performance thanks to the Venturi units (1 or 2 depending on the model).
- Ideal for collection of solid and liquid
- Available in both powder-coated steel or stainless steel
- Anti-static filters with high filtration efficiency
- Suitable for the 24-hour operation and maintenance-free

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Explosion protected Accessories Kit (TA.0199.0000)





Double Venturi Unit



NFPA certified for Division I and II

Detachable container with safety bag for fast discharge, 14.5 gallon capacity



Class M certified anti-static filter



Industrial vacuum systems for direct extraction on production lines

DIRECT X

Direct X (Direct Extraction) is the range of vacuum systems designed by Delfin to be equipped on the lines and production machinery of OEMs. These machines are designed to constantly recover processing waste, even in small spaces, thereby adapting to any application. Through its R&D department Delfin can customize these units, in order to tailor them on the needs and requirements of the customer, therefore obtaining a unit with unique features.

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DIRECT X/ DX AS 10 - 20 - 30



Trims extractors for automatic packaging machine

- direct extraction of production scraps from production machinery or lines
- great capacity and working autonomy, 24/7 continuous duty
- maintenance free motor
- extremely silent
- nylon bag filter (class L) and integrated filter efficiency indicator
- possibility to customize the unit for integration / assembly into production machinery

DIRECT X/ DX AS 70



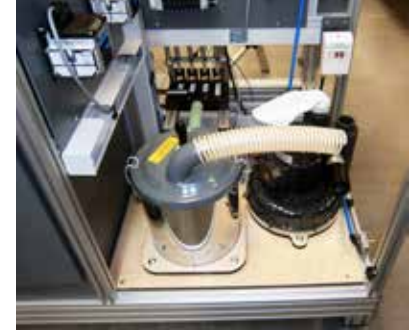
Trims extractors for automatic packaging machine

- direct extraction of production scraps from production machinery or lines
- great capacity and working autonomy, 24/7 continuous duty
- very powerful maintenance free motor
- extremely silent
- nylon bag filter (class L) and integrated filter efficiency indicator
- possibility to customize the unit for integration / assembly into production machinery

		DX AS 10	DX AS 20	DX AS 30	DX AS 70
Voltage	V	230 or 460 3ph	230 or 460 3ph	230 or 460 3ph	230 or 460 3ph
Frequency	Hz	60	60	60	60
Power	HP (kW)	1.25 (.85)	3 (2.2)	3.5 (2.5)	8.5 (5.5)
Water Lift	inH2O (mmH2O)	63 (1600)	75 (1900)	98 (2500)	100 (2510)
Air flow max.	CFM (lt/min)	100 (175)	175 (300)	215 (360)	350 (600)
Capacity	gal (lt)	40 (150)	40 (150)	40 (150)	55.5 (70)
Suction inlet	in (mm)	2.5 (60)	2.5 (60)	2.5 (60)	3 (70)
Noise level	dB(A)	68	68	68	71
IP-Class	IP	55	55	55	55
Dimensions	in (cm)	23x22x52 (59x55x132)	23x22x52 (59x55x132)	23x22x52 (59x55x132)	25x39x49 (63x100x125)



Fixed industrial vacuum systems



DIRECT X/ DX DBF 10 - 20 - 30

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- Compact suction unit for direct extraction of scraps or dust*
- maintenance free motor, suitable for continuous duty applications 24/7
 - high surface dry filter and integrated filter cleaning system
 - highly modular and suitable for integration on OEM machines and production lines

Direct X DX DBF and DX DBFV industrial vacuum systems are particularly suitable for the extraction from machine tools. Dust and other production waste are collected at source and stored securely. Thanks to their compactness they comply with most requirements in terms of size and noise.



		DX DBF 10	DX DBF 20	DX DBF 30
Voltage	V	230 or 460 3ph	230 or 460 3ph	230 or 460 3ph
Frequency	Hz	60	60	60
Power	HP (kW)	1.25 (0.95)	3 (2.2)	3.5 (2.55)
Water Lift	inH2O (mmH2O)	80 (2000)	95 (2400)	120 (3000)
Air flow max.	CFM (m ³ /h)	105 (175)	180 (300)	215 (360)
Capacity	gal (lt)	7 (25)	7 (25)	7 (25)
Filter surface	ft ² (m ²)	8.5 (0.8)	8.5 (0.8)	8.5 (0.8)
Filter Class	(IEC 60335-2-69)	L	L	L
HEPA-Filter	(EN1822)	H14	H14	H14
Suction inlet	in (mm)	2 (50)	2 (50)	2 (50)
Noise level	dB(A)	70	70	74
IP-Class	IP	55	55	55
Dimensions	in (cm)	14x28x20 (35x70x5)	14x28x20	14x28x20



DIRECT X/ DX DBFV 10 - 20 - 30



- Compact suction unit for direct extraction of scraps or dust**
- maintenance free motor, suitable for continuous duty applications 24/7
 - high surface dry filter and integrated filter cleaning system
 - highly modular and suitable for integration on OEM machines and production lines

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Other options



with added HEPA filter



with suction arm for the direct extraction of dust and powders



DX DBFV 30

		DX DBFV 10	DX DBFV 20	DX DBFV 30
Voltage	V	230 or 460 3ph	230 or 460 3ph	230 or 460 3ph
Frequency	Hz	60	60	60
Power	HP (kW)	1.25 (0.95)	3 (2.2)	3.5 (2.55)
Water Lift	inH ₂ O (mmH ₂ O)	80 (2000)	95 (2400)	120 (3000)
Air flow max.	CFM (m ³ /h)	105 (175)	180 (300)	215 (360)
Capacity	gal (lt)	2 (25)	2 (25)	2 (25)
Filter surface	ft ² (m ²)	8.5 (0.8)	8.5 (0.8)	13 (1.2)
Filter Class	(IEC 60335-2-69)	L	L	L
HEPA-Filter	(EN1822)	H14	H14	H14
Suction inlet	in (mm)	2 (50)	2 (50)	2 (50)
Noise level	dB(A)	69	69	70
IP-Class	IP	55	55	55
Dimensions	in (cm)	16x15x28 (41x38x70)	16x15x28 (41x38x70)	16x24x40 (41x61x101)



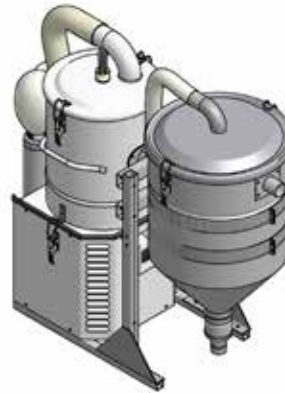
Flux recovery for submerged arc welding systems



ADVANTAGES

- Modular construction and multiple design options
- Flexibility provided by a research and development department able to develop solutions based on customer needs
- Ability to co-design integrated systems with welding machine

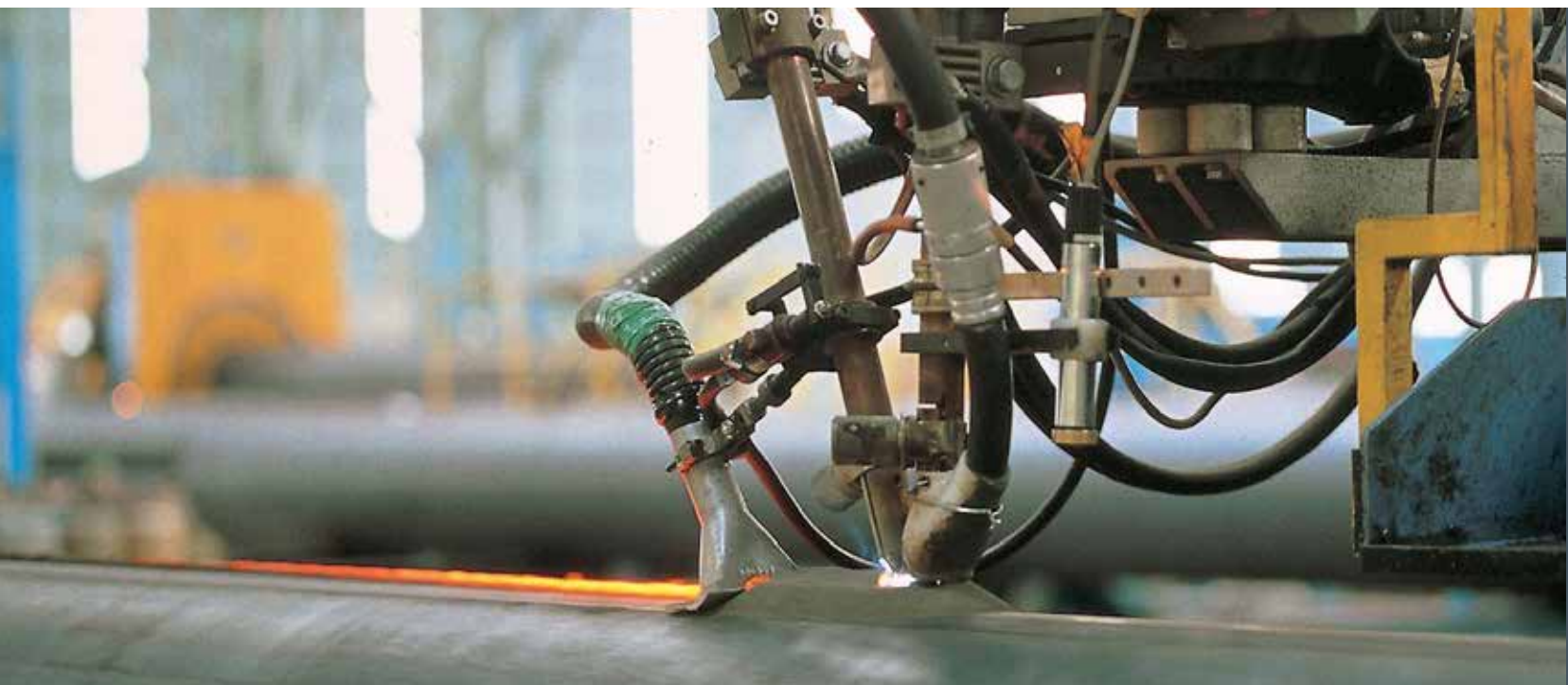
Fixed unit



Mobile unit



Two separate Units, complete modularity





Delfin designs and manufactures a wide range of flux recovery units specifically engineered for the recovery of welding flux, which are integrated in the welding machines. There are several solutions to choose from among, suction units, hoppers, mobile or fixed, which will surely be able to meet and exceed the expectations of workers worldwide.



- different solutions depending on the needs
- integrated on a single frame (fixed or mobile)
- completely customized solutions on demand
- hopper for flux separation
- drain valve for re-use of the flux

		DX AWFR 30	DX AWFR 35
Voltage	V	230 or 460 3ph	230 or 460 3ph
Frequency	Hz	60	60
Power	HP (kW)	3 (1.8)	3.5 (2.2)
Water Lift	inH2O (mmH2O)	94 (2300)	118 (3000)
Air flow max.	CFM (m ³ /h)	177 (250)	212 (300)
Capacity	gal (lt)	13 (50)	13 (50)
Filter Class	(IEC 60335-2-69)	L	L
Suction inlet	in (mm)	2 (50)	2 (50)
Noise level	dB(A)	69	70
IP-Class	IP	55	55

Industrial vacuum systems for lab control

The main feature of lab control is the presence of very pure air, with a very low levels of airborne dust microparticles. This type of laboratory is used in the field of chemical production, pharmaceuticals, precision mechanics and electronics.

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The purpose of lab control is to preserve the processes that occur within them from contamination. The use of properly designed and manufactured industrial vacuum systems is essential for the proper maintenance and sanitation of these areas.

Delfin's vacuums for lab control are engineered based on the unique requirements of the users. A range of specialized models are available for the extraction of solid, dusty, humid or liquid materials.



CR / CR1000D - CR1100WD - CR1100S



CR1000D

- Total construction in stainless steel
- Autoclavable (up to 248°F, except engine head)
- Compliant with GMP standards
- Powerful and compact
- Possibility for bagging the suction material
- Specific for aspiration of solids and powders



CR1100WD

- Total construction in stainless steel
- Autoclavable (up to 248°F, except engine head)
- Compliant with GMP standards
- Powerful and compact
- Specific for the suction of damp or liquid materials, even mixed with powders.



CR1100DS

- Total construction in stainless steel
- Autoclavable (up to 248°F, except engine head)
- Compliant with GMP standards
- Powerful and compact
- Possibility of bagging in "safe-bag" for toxic waste
- Up to 4 installable filtration



		CR1000D	CR1100WD	CR1100DS
Voltage	V	230 1ph	230 1ph	230 1ph
Frequency	Hz	60	60	60
Power	HP (kW)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)
Water Lift	inH2O (mmH2O)	98.5 (2500)	98.5 (2500)	98.5 (2500)
Air flow max.	CFM (m³/h)	106 (180)	106 (180)	106 (180)
Capacity	gal (lt)	7 (25)	9 (35)	2 (8)
Filter Class	(IEC 60335-2-69)	L	L	L
HEPA-Filter	(EN1822)	H14	H14	H14
Suction inlet	in (mm)	1.5 (38)	1.5 (38)	1.5 (38)
Noise level	dB(A)	65	65	65
IP-Class	IP	55	55	55
Dimensions	in (cm)	60x50x106 (152x127x269)	36x34x73 (91x86x185)	36x36x51 (91x91x129)



Industrial vacuum unit with high airflow

AIRFLOW/ EV 420 - EV AP 500 - EV AP 560



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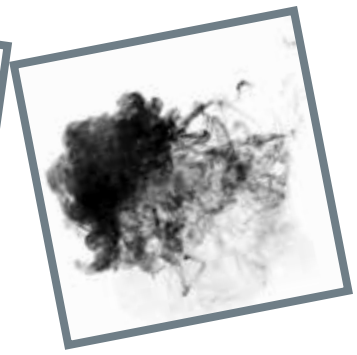
Industrial dedusters with high airflow

- 26.4 gal. removable container, it allows the easy disposal of the collected dust
- wide surface area filter
- integrated manual filter shaker, enables constant cleaning of the filter
- endless customization options thanks to a wide choice of filtration and automation options

Airflow is Delfin's range of dust extractors and dedusting systems. From the vacuuming of welding fumes, to the extraction and filtration of powders, the flexibility of the Airflow line allows us to always offer the most appropriate solution to the customer's needs.

Thanks to its R&D division Delfin engineers, proposes and installs centralized dedusting system and fumes extraction.

		EV 420	EV AP 500	EV AP 560
Voltage	V	460 3ph	460 3ph	460 3ph
Frequency	Hz	60	60	60
Power	HP (kW)	1 (.75)	3 (2.2)	5.5 (4)
Water Lift	inH2O (mmH2O)	9 (240)	16 (400)	8 - 12 - 14 (200 - 300 - 350)
Air flow max.	CFM (m ³ /h)	647 (1100)	970 (1656)	1589 - 1059 - 647 (2700 - 1800 - 1100)
Capacity	gal (lt)	9 (35)	26 (100)	26 (100)
Filter surface	ft ² (m ²)	22.5 (2)	32 (3)	54 (5)
Filter Class	(IEC 60335-2-69)	L	L	L
Suction inlet	in (mm)	4 (100)	6 (150)	8 - 6 - 5 (200 - 150 - 120)
Dimensions	in (cm)	20x24x71 (52x60x180)	24x24x87 (62x62x220)	31x33x98 (78x85x250)



AIRFLOW/ EV AP 560 PN

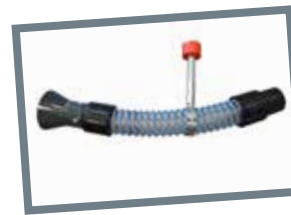


Industrial vacuum unit with high airflow and automatic filter cleaning system with reverse air pulse

- vacuum unit with high airflow
- reverse air pulse automatic filter cleaning system
- 26 gallon removable container, it allows easy disposal of collected dust
- wide surface area Filter

The Airflow EV AP 560 PN is the best combination of airflow and efficiency. It's equipped with an automatic filter cleaning system with reverse air pulse, also called PN system. The system consists of a compressed air container, which is placed behind the filter chamber. Every 30 seconds (depending on the settings), the system blows a 6 Bar strong blast of compressed air in the cartridge filters detaching the dust particles from the filter surface. This system allows an efficient cleaning of the filter cartridges without stopping the machine.

		ZFR EV AP 560 PN 2.2 kW	ZFR EV AP 560 PN (180) 4kW	ZFR EV AP 560 PN (150) 4 kW	ZFR EV AP 560 PN (120) 4 kW
Suction inlet	in (cm)	6 (150)	7 (180)	6 (150)	5 (120)
Voltage	V	460 3ph	460 3ph	460 3ph	460 3ph
Frequency	Hz	60	60	60	60
Power	HP (kW)	3 (2.2)	5.5 (4)	5.5 (4)	5.5 (4)
Water Lift	inH2O (mmH2O)	11 (280)	8 (200)	12 (300)	14 (350)
Air flow max.	CFM (m³/h)	765 (1300)	1589 (2700)	1059 (1800)	647 (1100)
Capacity	gal (lt)	26 (100)	26 (100)	26 (100)	26 (100)
Filter surface	ft² (cm²)	3.5 (106)	3.5 (106)	3.5 (106)	3.5 (106)
Filter Class	(IEC 60335- 2-69)	M	M	M	M
Dimensions	in (cm)	32x32x87 (80x80x220)	32x32x87 (80x80x220)	32x32x87 (80x80x220)	32x32x87 (80x80x220)



AIRFLOW/ 302 TORCH

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The best industrial vacuum systems to extract welding fumes at the source

- Suction of welding fumes through the connection to the torch or by through the magnetic extraction arm
- High efficiency filtration of fumes in order to safeguard the operator's health
- Easy to use thanks to the remote control which powers on and off the vacuum depending on the operations of the welding machine



remote control



class M filter



anti-spark filter



DUSTOP filter cleaning system

		302 TORCH
Voltage	V	115 1ph
Frequency	Hz	60
Power	HP (kW)	2.7 (2)
Water Lift	inH ₂ O (mmH ₂ O)	98 (2500)
Air flow max.	CFM (m ³ /h)	212 (360)
Capacity	gal (lt)	3.4 (13)
Filter surface	ft ² (m ²)	8 (0.75)
Filter Class	(IEC 60335-2-69)	M
Suction inlet	in (mm)	2 (50)
Dimensions	in (cm)	16x20x34 (40x50x86)

PRE-SEPARATORS

Delfin manufactures a wide range of containers, pre-separators and pre-separators with filter up to 264 gallons as standard (bigger capacity available on request). A pre-separator in conjunction with an appropriate Delfin vacuum system can double the efficiency of the system and extend filter life by decreasing the air load.

Mobile Pre-Separators



Pre-separators for hot materials



Tilting pre-separators, high capacity (106 - 158 gallons)





Separators with Longopac discharge system for floor preparation



Separators for the collection of explosive or flammable dust



Mobile pre-separators, customized according to client's requirements

Airflow between
80 - 600 CFM



Drum top pre-separators

Airflow between
120 - 300 CFM



Pre-separators with filters for solids, dust and liquids

Airflow between
180 - 350 CFM

ACCESSORIES



TECNOIL OIL AND SHAVINGS

These accessories are only a small selection of Delfin's wide range. Delfin can provide the right tool for every application.



ATEX

202DS KIT



ENGINEERING KIT



OVEN CLEANING KIT



ANTISTATIC KIT



W&D vacuum systems for commercial purpose

STORM/ SV 10



STORM/ SV 30



STORM/ SV 60



MODEL	Voltage	VERSION
SV 10	230 1ph	4 gallon dry
SV 30	230 1ph	7 gallon wet-dry
SV 60	230 1ph	15 gallon wet-dry



Centralized vacuum systems

Centralized Vacuum System allows you to easily clean a wide area and/or to transport the vacuumed material from one area to another, through a series of fixed pipings, accumulating and discharging them in a chosen point.

- 1) A suction unit, placed often at considerable distance (tens or hundreds of meters) from the point (or points) in which the suction of the material takes place;
- 2) A filtration unit;
- 3) A collection unit. Each CVS must be designed according to the specific dimensions and characteristics of the area in which it has to be installed, taking in account the required performances and the specific application.



AS FIXE T/M



- Suction, filtration and collection integrated unit**
- single-phase or three-phase version, suitable for continuous duty applications 24/7
 - can be fixed on walls or on metal frames (also on wheels)
 - weighed flap discharge system
 - remote control switch included (6.5ft. of cable as standard)

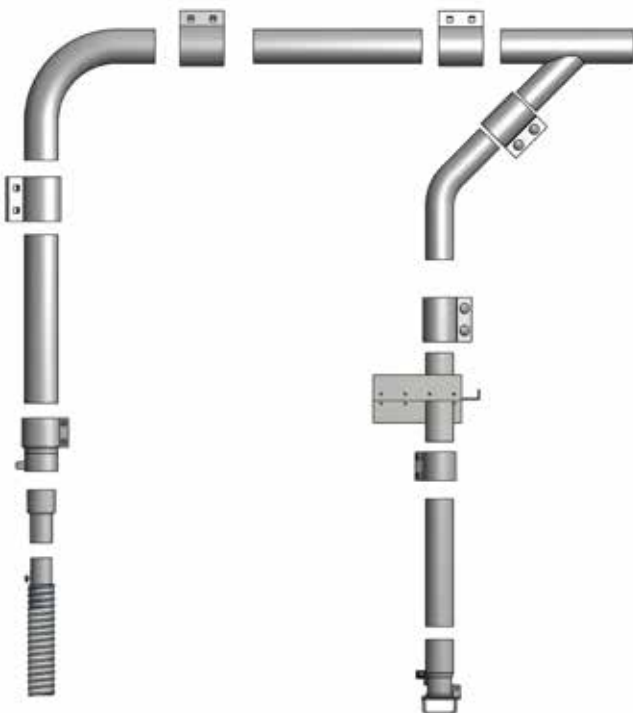


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Filtering separators



Filtering hoppers with high capacity, up to 265 gallons



Centralized vacuum systems accessories

Delfin can provide all the necessary components for the realization of a centralized vacuum system. Pipes, vents, deviations in galvanized or stainless steel are ready to be shipped quickly from our warehouse.



High vacuum suction units

Delfin's DHV high vacuum line is the result of 25 years of know-how in the most difficult application fields. These power monsters can be efficiently used in any industrial environment where it is mandatory to clean or move huge quantities of dusty, granular, liquid or muddy materials. In order to maximize efficiency, DHV units have to be used with appropriate containers or combined with separators of 265 gallons or more. Each DHV is a modular solution, customized on the specific needs of customers and can also be provided as truck or trailer mounted.



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Customized suction solutions engineered to your specifications

Customized industrial vacuums: a world of possibilities

Delfin's wide range of standard vacuum systems does not meet all your requirements? Don't worry! Our engineers are always ready to develop a customized solution just for you. With more than 1,500 customized units already engineered, Delfin is the leader in tailor-made vacuum solutions.

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Why should you choose a Delfin vacuum solution?



All the colors in the world

Thanks to our internal powder coating line, we can paint in any RAL color, as well as any custom color. We can make it possible in a very short time!



The automation you need

Our engineers assist our customers directly, in order to provide answers and solutions to the requests of automation on machinery and process lines.



Chosen by the best

Over the years our vacuum units have been chosen by the best Italian, German and other International OEMs. And not we are offering them in the US!



Always the right solution!

For example the SPARK TRAP system which was design in order to deflect and cool down sparks when vacuuming white-hot dust.



Infinite technical results!

Delfin's customized solutions are designed on your requests, grounded on more than 25 years of know-how and on the field experience.



Not "only" industrial vacuums... Delfin also designs pneumatic conveyors which are engineered and built to the specific requirements of the client.

References (extract)

AUTOMOTIVE

Audi
BMW
Bridgestone
Caterpillar
Citroen
Continental
Dallara Automobili
Delphi
Federal Mogul
Fiat Auto
Fiat Iveco
Ford
General Motors
Honda
Honeywell Turbo Tech.
Jaguar Land Rover
Magneti Marelli
MAZDA
Mercedes-Benz
Michelin
Nissan
Peugeot-Citroen
Pirelli
Renault
Rolls Royce
Suzuki International
Toyota Motor Industries
Valeo
Volkswagen
YAMAHA

FOOD & BEVERAGE

Acqua San benedetto
American Sugar Refining
Cadbury
Carlberg
Coca-Cola
DANISCO
Dr. Oetker
FERRERO
Flacq
Frisian Flag
Heineken
IMPORTACO
Indofood
INTERFLOUR
John Smith
JOWA
La Lorraine
Maestro Swiss Food Medigrain
Molino Alba
Nestlé
Nestlé Purina Pet Care
Olympic Brewery
Pepsico
Pfeifer & Langen
Werk Elsdorf Zuckerfabrik

HEAVY INDUSTRY

3M Company
Arcelor
CBR
Dillinger
General Electric
General Marine
Holcim
Indocement
John Zink
Posco
Sealmaker
Thyssen - Krupp

RAW MATERIALS

ENI S.P.A.
Eppco
Gas Authority of India
Indian Oil Corporation
Linde Gas
Minera Escondida
Shell Gas

CHEMICAL & PHARMA

Abbott Espana
AKZO NOBEL
BASF
Bayer
Bayer Material Science
Bintang Toedjoe
Bristol Meyer Squibbs
Chandra Asri
Chevron Phillips
Dr.Reddy's Laboratories
Essilor India
FMC Inc
Fresenius kabi
Galvanisation Industrielle
Glaxo Smith Kline
HIKMA Giordania
Janssen Pharmaceutical
Kalbe Farma
Kansai Paint
Larex
Laser
Linde Gaz
MERIAL
Millipore
Mylan Laboratories
Novartis
Novartis Consumer
Pfizer Pharmaceutical
Roche Diagnostics
ROCKWOOL
Sanofi Aventis
Schlumberger
Shell Gas
Smelting Indonesia
Sud-Chemie
Takeda Pharma
Winthrop Pharmaceuticals
Xellia Pharmaceuticals
Zimmer Orthopedics
P&G (Procter and Gamble)
Polymer-Chemie
Faber-Castell Cosmetics
SOLVAY

ENGINEERING

Alstom power
Beghelli
BOSCH
Cartier
Caterpillar
Conttek
H.F.B. Laser Technology
Heco Schrauben
HONEYWELL
Komatsu
LOMBARDINI
Grindwell Morton
Widia
Medartis
Merlo
MICHELIN
Micro Mechanics
Technology
MITSUBA
Phenix Systems
ROLLS ROYCE
SCHAEFFLER
Schumag
Siemens
VEOLIA

AEROSPACE

AER LINGUS
Aerostar
AIRBUS
Alenia Aeronautica
ASCO
Boeing
Bombardier
DASSAULT
Eurocopter
Magellan Aerospace
MECACHROME
SAGEM (by SAFRAM)
Sonaca
SR Technics
Techspace Aero
THOMPSONAEROSEATING
Xian Airplane
Manufacturing
Zodiac Aerospace



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