

CERTIFIED EXPLOSION-PROOF

Industrial Vacuum Systems



Is combustible dust present in your workplace?

OSHA's National Emphasis Program recommends a housekeeping procedure for managing hazardous dust.

- ✓ Have a detailed cleaning program - includes locating all combustible materials, tracking ignition sources and checking hidden areas routinely
- ✓ Use industrial vacuum systems - OSHA recognizes this as the safest choice for cleaning
- ✓ Use properly certified equipment for your facility's hazardous location class type specified in your DHA

How does a dust explosion occur?

Some materials are only combustible in dust form.

An illustration known as the 'Explosion Pentagon' shows the elements needed to cause seemingly harmless dust to explode.



Delfin Uses Nationally Recognized Testing Laboratories.



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.

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

You have a right to know.

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). It states that each industrial setting must have:

- A dust type test results saved on file
- A complete Dust Hazard Analysis
- A documented housekeeping procedure
- A certified industrial vacuum system (recommended)

More on combustible dust: NFPA 70, NFPA 654, NFPA 484

Class I & II, Division 1

Three-Phase

Model: DG KW4-KW6 D1



Class II, Division 2

Single-Phase

Model: Mistral 202 D2



CLASS

RISK

GROUP

GAS, VAPOR
LIQUID

I
I

DIV. 1, NORMALLY PRESENT
DIV. 2, ABNORMALLY PRESENT

D
D

DUST

II
II

DIV. 1, NORMALLY PRESENT
DIV. 2, ABNORMALLY PRESENT

E, F, G
F, G



300 BL D2
Single-Phase



301 BL D2
Single-Phase



202 BL D2
Single-Phase



DM3 BL D2
Single-Phase



DBFV 30 D2
Three-Phase



4533 D2
Three-Phase



4534 D2
Three-Phase



4535 D2
Three-Phase



PHARMA 30 D2
Three-Phase



KW3 D2
Three-Phase



KW5 D2
Three-Phase



86 AF D2
Three-Phase



		300 BL	301 BL	202 BL	DM3 BL
VOLTAGE	V - Hz	115 - 60	115 - 60	115 - 60	115 - 60
POWER	hp (kW)	1.5 (1.2)	1.5 (1.2)	1.5 (1.2)	1.3 (1)
WATER LIFT	inH2O (mmH2O)	88.6 (2250)	88.6 (2250)	88.6 (2250)	88.6 (2250)
AIRFLOW	CFM (m³/h)	126.5 (215)	126.5 (215)	126.5 (215)	126.5 (215)
ELECTRICAL PROTECTION	IP	55	55	55	55
CAPACITY	gal (lt)	3 (13)	4 (15)	5 (20)	26 (100)
DIMENSIONS	in	18 x 17 x 31	18 x 19 x 34	19 x 23 x 43	31 x 26 x 70
WEIGHT	lbs (kg)	55 (25)	55 (25)	77 (35)	143 (65)
NOISE LEVEL	dB (A)	78	78	78	78
SUCTION INLET	mm	50	50	50	80
FILTER SURFACE	ft² (m²)	4.5 (0.4)	6.5 (0.6)	32 (3)	22 (2)

		DBFV 30	4533	4534	4535
VOLTAGE	V - Hz	230 / 460 - 60	230 / 460 - 60	230 / 460 - 60	230 / 460 - 60
POWER	hp (kW)	4.0 (3)	3.5 (3)	5.4 (4)	6.7 (5)
MAX WATER LIFT	inH2O (mmH2O)	74.8 (1900)	74.8 (1900)	98.4 (2500)	104.3 (2650)
AIRFLOW	CFM (m³/h)	221.3 (376)	221.3 (376)	221.3 (376)	294.3 (500)
ELECTRICAL PROTECTION	IP	55	55	55	55
CAPACITY	gal (lt)	10 (40)	12 (45)	12 (45)	12 (45)
DIMENSIONS	in	16 x 24 x 40	40 x 22 x 50	40 x 22 x 50	40 x 22 x 50
WEIGHT	lbs (kg)	88 (60)	177 (80)	188 (85)	199 (90)
NOISE LEVEL	dB (A)	72	72	72	73
SUCTION INLET	mm	50	80	80	80
FILTER SURFACE	ft² (m²)	13 (1.2)	22 (2)	22 (2)	22 (2)

		PHARMA 30	KW3	KW5	86 AF
VOLTAGE	V - Hz	230 / 460 - 60	460 - 60	460 - 60	460 - 60
POWER	hp (kW)	4.0 (3)	4.0 (3)	6.7 (5)	12.1 (9)
MAX WATER LIFT	inH2O (mmH2O)	74.8 (1900)	74.8 (1900)	137.8 (3500)	106.3 (2700)
AIRFLOW	CFM (m³/h)	221.3 (376)	223.7 (380)	223.7 (380)	497.3 (845)
ELECTRICAL PROTECTION	IP	55	55	55	55
CAPACITY	gal (lt)	2 (50)	26 (100)	26 (100)	26 (100)
DIMENSIONS	in	21 x 27 x 58	26 x 47 x 57	26 x 47 x 57	26 x 47 x 69
WEIGHT	lbs (kg)	165 (75)	276 (125)	302 (137)	397 (180)
NOISE LEVEL	dB (A)	72	72	73	75
SUCTION INLET	mm	50	80	80	80
FILTER SURFACE	ft² (m²)	32 (3)	22 (2)	32 (3)	32 (3)



202 D1
Single-Phase



KW4 D1
Three-Phase



KW6 D1
Three-Phase



80 WD 2V
Zones 1, 2, 21 & 22



DM 2V
Zones 1, 2, 21 & 22



35 1V - 2V
Zones 1, 2, 21 & 22



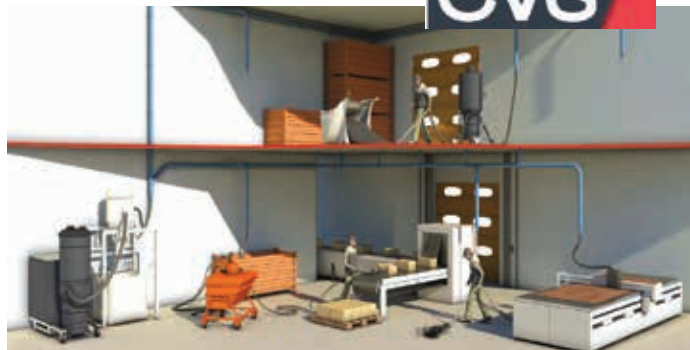
Delfin explosion-proof pneumatic vacuum systems are ATEX certified (EU) and NFPA compliant (US).

Pneumatic Equipment cannot be certified by NRTLs because there is no existing certification process in the United States.



		ZONE	RISK	CATEGORY
ATEX Risk Zone	GAS	1	OCCASIONAL	2G
		2	RARE	3G
	DUST	21	OCCASIONAL	2D
		22	RARE	3D

Central Vacuum Systems



- Portable & fixed vacuum units with many filtration options
- Pre-separators, hoppers & mobile collection systems available
- Turn key solutions with engineering support from start to finish
- Customizable systems for any industrial environment

		202 D1	KW4 D1	KW6 D1
VOLTAGE	V - Hz	115 - 60	460 - 60	460 - 60
POWER	hp (kW)	0.9 (0.7)	5.4 (4)	8.0 (6)
WATER LIFT	inH ₂ O (mmH ₂ O)	66.9 (1700)	86.6 (2200)	70.9 (1800)
AIRFLOW	CFM (m ³ /h)	141.3 (240)	241.3 (410)	406.1 (690)
ELECTRICAL PROTECTION	IP	55	65	65
CAPACITY	gal (lt)	5 (20)	27 (100)	27 (100)
DIMENSIONS	in	19 x 23 x 43	26 x 47 x 67	26 x 47 x 67
WEIGHT	lbs (kg)	88 (40)	280 (127)	308 (140)
NOISE LEVEL	dB (A)	80	75	75
SUCTION INLET	mm	50	80	80
FILTER SURFACE	ft ² (m ²)	32 (3)	32 (3)	32 (3)

		80 WD 2V	DM 2V	35 1V	35 2V
AIR SUPPLY	CFM (lt / min)	109.5 (3100)	106 (3000)	53 (1500)	106 (3000)
AIR SUPPLY PRESSURE	PSI (bar)	87 (6)	87 (6)	87 (6)	87 (6)
AIR SUPPLY HOSE	in (mm)	3/8 (10)	1/2 (12)	3/8 (10)	3/8 (10)
AIRFLOW	CFM (m ³ /h)	176.6 (300)	176.6 (300)	88.3 (150)	176.6 (300)
WATER LIFT	inH ₂ O (mmH ₂ O)	164.6 (4180)	164.6 (4180)	164.6 (4180)	164.6 (4180)
CAPACITY	gal (lt)	21 (80)	14.5 (55)	21 (80)	9 (35)
DIMENSIONS	in	21 x 26 x 43	24 x 24 x 63	23 x 24 x 50	23 x 24 x 50
WEIGHT	lbs (kg)	79 (36)	172 (78)	110 (50)	110 (50)
NOISE LEVEL	dB (A)	73	73	73	73
SUCTION INLET	mm	80	80	80	80
FILTER SURFACE	ft ² (m ²)	9 (1)	32.3	22 (2)	22 (2)

Delfin has a wide range of antistatic brushes, hoses and accessories to add convenience.



Pneumatic conveyance is the safest and most effective way to move dust, granules and solids. Learn how Delfin systems can help you increase productivity up to 30%.

*Over 100,000 vacuums in
service worldwide.*



With over 25 years of innovation in the industrial vacuum system market, we've built a diverse product line of more than 140 models and 1,500 configurations to cover any application, dust type and niche industry.

Through listening to the unique needs of each customer, we've grown to realize our R&D team can engineer any custom solution with the highest standards for quality and safety.



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CAT20CER-A

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



2010 E Center Circle
Bldg C, Ste 300
Plymouth, MN 55441



877-205-9015



info@delfinindustrial.com



delfinindustrial.com