







## Dust Collection & Explosion Protection For Manufacturing

-  Dust Collectors
-  Industrial Vacuum Cleaners
-  Fume Extractors
-  Explosion Protection Systems

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[@villotech](https://www.youtube.com/channel/UCvillotech)





# About Villo

18+

Years' Experience

100,000+

Installations

375

R&D Engineers & Technicians

100+

Countries & Areas' Presence

100,000+

m<sup>2</sup> Manufacturing Base

Established in 2007, Villo is a leading solution provider for industrial dust control and explosion protection system, serving for manufacturers of lithium-ion battery, 3D printing, photovoltaic etc.

Headquartered in China's manufacturing hub —— Dongguan city, Villo has two factories covering 100,000 square meters in South and East China, producing a wide breadth of product offerings including industrial dust collectors, vacuum cleaners and explosion protection devices.

Backed by its strong production capability, a professional R&D team and extensive experience of exporting more than 100,000 successful installations in the past years, Villo is capable to tailor-made ideal solutions to help you solve your dust, fume and mist collection challenges and thus produce dustless and safely.

Certified internationally by ATEX, UL, CE and etc., Villo's products manage to help your production line meet local regulations of your area. Villo's branches in Euro, the U.S. and Asia are also ready to provide instant and on-site service to you.

# Villo Timeline

2025

Villotech Japan Co., Ltd. established

2023

Villo Global R&D Center groundbreaking  
Villo Korea Technical Service Center established

2022

Villo Changzhou R&D Center established  
Villo Envsave Testing Center accredited by CNAS  
(China National Accreditation Service for Conformity)

2021

Villo Changzhou established

2020

Villo Hunan established  
Villo Ningde Engineering established  
Villo Innovation Institute established

2019

Villo Germany established

2018

Villo Envsafe Institute established  
Drafted China's "Dust Explosion Pressure Relief Standard" and "Explosion Protection Technical Standard for Combustible Dust Process Systems"

2017

Villo USA established  
Villo Hong Kong established  
Villo Eastern China established

2016

TUV ATEX certified for both products and company system  
CQCEX certified

2012

Villo's products got CE certifications

2009

ISO9001 certified

2007

Villo founded

# Villo Partners

## Battery Manufacturers



## Battery Manufacturing Equipment Maker



## Automakers



## Metal Working



## Food & Beverage



## 3D Printing



## Electronics



## Wood Working



## Photovoltaic



## Packaging



## Chemical Industry



## Semiconductor



## Car Wash





Dust and Fume Collectors, Compactors

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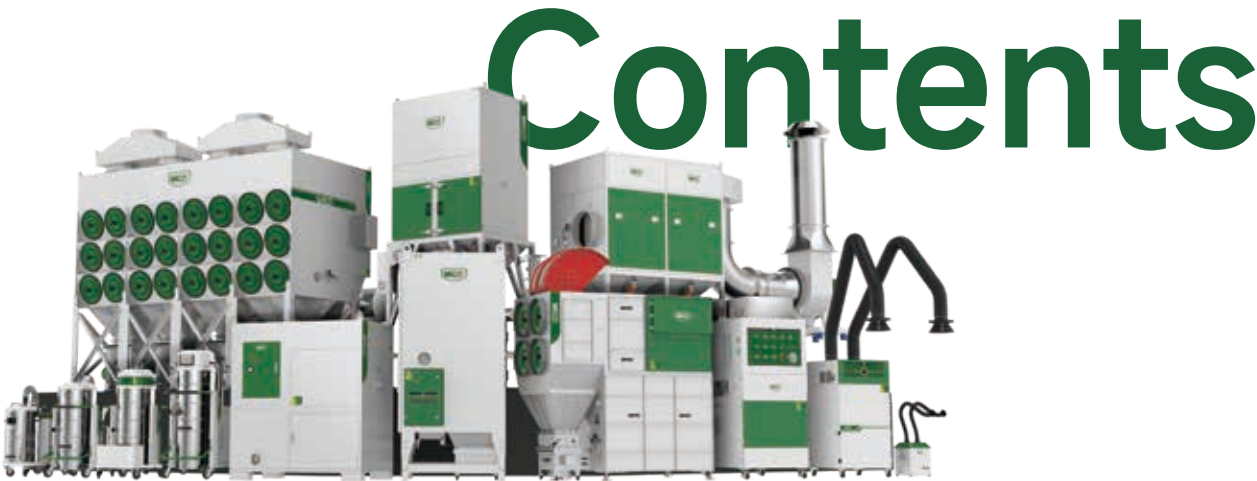
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## Dust and Fume Collectors, Compactors

1.1

### Central Dust Collector

The Central Dust Collector is designed to gather dust from multiple sources across a workspace, including entire workshops or factories, and process it in a single dust collection unit. Ideal for large-scale operations with numerous dust emission points that require a clean and efficient working environment.

1.2

### Explosion-proof Dust Collector

This specialized dust collector is engineered to safely manage combustible dust, reducing the risk of explosions in hazardous environments. It's perfect for industries where dust particles are highly flammable, such as chemical, pharmaceutical, and metalworking sectors, ensuring both safety and compliance with stringent industry standards.

1.3

### Self-cleaning Dust Collector

The Self-Cleaning Dust Collector is equipped with automatic filter cleaning, reducing maintenance efforts and extending filter life. It's ideal for continuous or high-dust operations, making it suitable for industries like woodworking, metal grinding, and any environment with sustained dust generation.

1.4

### Compact Dust Collector

The Compact Dust Collector is designed for small spaces or applications with limited room for equipment. Despite its compact size, it provides powerful dust extraction, making it ideal for smaller workshops or single-machine setups where space efficiency is a priority.

1.5

### Fume Extractor

The Fume Extractor is built to remove hazardous fumes, vapors, and airborne particles generated by processes like welding, soldering, and chemical applications. It's especially suitable for environments where employee health is at risk from exposure to toxic fumes, ensuring clean air and a safer workspace.

1.6

### Industrial Compactor

The Industrial Recycling Compactor efficiently compresses, collects, and filters industrial waste and dust in one streamlined process. This solution is ideal for facilities needing effective waste reduction and enhanced air quality in their work environments.



# VFO

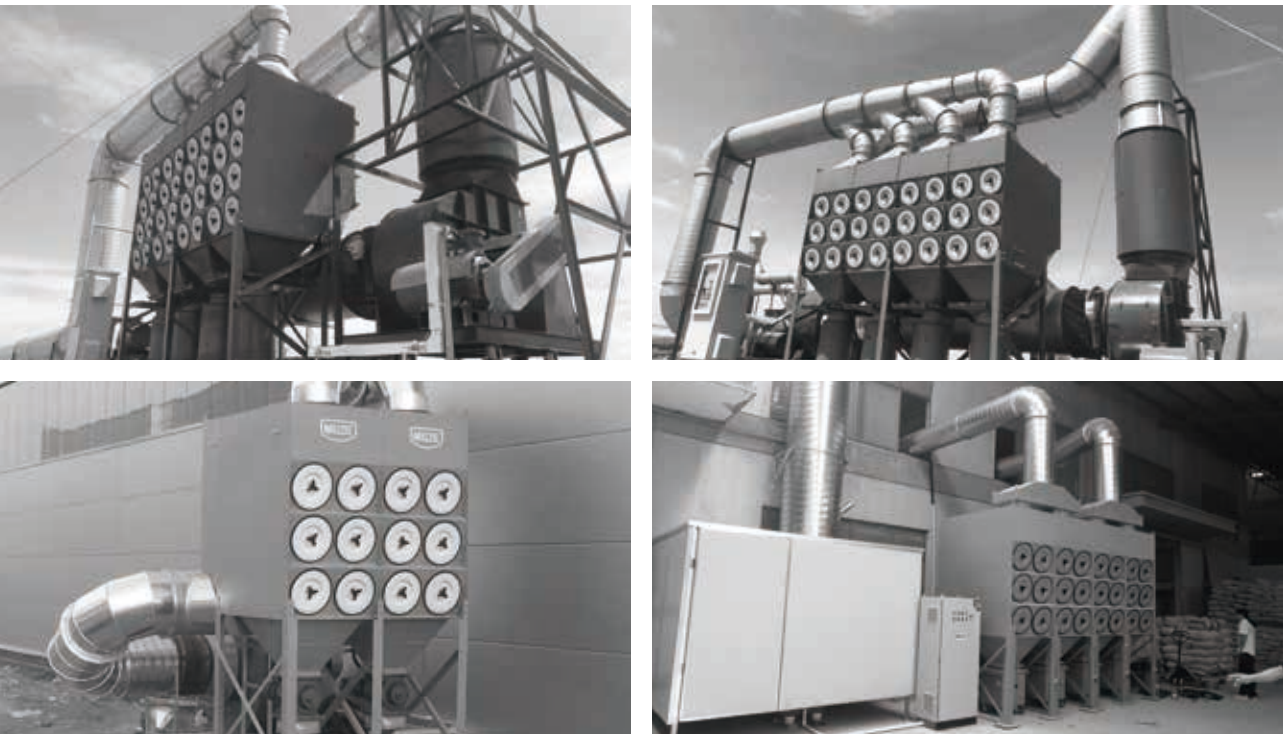
## Central Dust Collector with Horizontal Cartridge

### Advantages & Features

- Reduces energy consumption.
- Reduces secondary pollution and maintains workshop cleanliness.
- Convenient for operation and maintenance.
- Optimizes plant space usage.
- Reduces workshop noise.
- Enables continuous operation without interruptions for cleaning.
- Facilitates centralized collection of harmful dust.
- Horizontal filter cartridge design simplifies cartridge replacement and maintenance.

### Applications

- Ideal for woodworking, grinding, cutting, material handling, and other operations that generate large amounts of dust, especially in multi-site centralized dust collection environments.



Learn more

### Optional Configurations

- Central Control System with Variable Frequency and Constant Pressure
- Stainless Steel Construction
- Explosion-Proof Devices
- Activated Carbon Filter
- Additional H13/H14 Filter
- Frequency Converter
- Airspeed Sensor
- Temperature Sensor
- Dust Concentration Detector
- Tank Level Alarm
- Multi-color Signal Tower
- Customizable Collection Box
- Gate Valve

### Technical Parameters

Model	VFO 3-12	VFO 3-24	VFO 3-36	VFO 3-48	VFO 3-60	VFO 3-72
Voltage (V / Hz)	380 / 50					
Air flow (m³/h) / (CFM)	9000~15000 / 5300~8800	18000~30000 / 10600~17700	27000~45000 / 15900~26500	36000~60000 / 21200~35300	45000~75000 / 26500~44100	54000~90000 / 32000~53000
Power	Calculate the total pressure / static pressure according to the total resistance of the system, and then select the appropriate fan power					
Filter area (m²) / (sq.ft)	144 / 1550	288 / 3100	432 / 4650	576 / 6200	720 / 7750	864 / 9300
Filter efficiency	>99%					
Capacity of the dust container (L) / (gal)	100 / 26.4 (1pcs)	200 / 52.8 (2pcs)	300 / 79.2 (pcs)	400 / 105.6 (4pcs)	500 / 132 (5pcs)	600 / 158.4 (6pcs)
Noise dB (A)	82±2	83±2	85±2	85±2	88±2	90±2
Filter cleaning method	pulse jet cleaning+holder on dust collecting box					
Dimensions (Excluding the Blower) 【LxWxH】 (mm) / (in)	1120*1910*3100 / 44.1*75.2*122.0	2240*1910*3640 / 88.2*75.2*143.3	3360*1910*3640 / 132.3*75.2*143.3	4480*1910*3640 / 176.4*75.2*143.3	5600*1910*3640 / 220.5*75.2*143.3	6720*1910*3640 / 264.6*75.2*143.3
Weight (kg) / (lb)	400 / 882	800 / 1764	1200 / 2646	1600 / 3528	2000 / 4410	2400 / 5290
※ The air flow and Negative pressure can be calculated according to the actual condition, and then choose the bigger or more suitable power machine.						

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# VH-Z

## Central Dust Collector with Vertical Cartridge

### Advantages & Features

- Reduces energy consumption.
- Reduces secondary pollution and maintains workshop cleanliness.
- Convenient for operation and maintenance.
- Optimizes plant space usage.
- Reduces workshop noise.
- Enables continuous operation without interruptions for cleaning.
- Facilitates centralized collection of harmful dust.
- The vertical cartridge configuration enhances cleaning efficiency and prevents dust re-entrainment.

### Applications

- Suitable for capacitance spray operations, tin packaging, CCL processes, spray production lines, ceramic raw material processing, polishing workshops, welding smoke purification, and other multi-site centralized dust collection environments.



Learn more

### Optional Configurations

- Central Control System with Variable Frequency and Constant Pressure
- Stainless Steel Construction
- Explosion-Proof Devices
- Activated Carbon Filter
- Additional H13/H14 Filter
- Frequency Converter
- Airspeed Sensor
- Temperature Sensor
- Dust Concentration Detector
- Tank Level Alarm
- Multi-color Signal Tower
- Customizable Collection Box
- Gate Valve

### Technical Parameters

Model	VH-Z-8500	VH-Z-16000	VH-Z-19000	VH-Z-21000	VH-Z-23000	VH-Z-30000
Voltage(V / Hz)	380 / 50					
Air flow (m³/h) / (CFM)	5710~10600 / 3360~6240	10600~21200 / 6240~12470	13200~26300 / 7765~15470	17500~22450 / 10300~13200	19650~25250 / 11560~14850	28100~36450 / 16530~21450
Power(kW) / (HP)	Calculate the total pressure/static pressure according to the total resistance of the system, and then select the appropriate fan power					
Filter area (m²) / ( sq.ft )	84 / 904	170 / 1830	204 / 2196	204 / 2196	306 / 3294	360 / 3875
Filter efficiency	>99%					
Capacity of the dust container(L) / (gal)	70 / 18.5	50*2 / 13.2*2	50*2 / 13.2*2	50*2 / 13.2*2	50*2 / 13.2*2	50*3 / 13.2*2
Noise dB (A)	82±2	83±2	85±2	85±2	88±2	90±2
Filter cleaning method	pulse jet cleaning+holder on dust collecting box					
Air inlet Dia. (mm) / (in)	Ø350 / 14	Ø500 / 20	Ø550 / 22	Ø550 / 22	Ø600 / 24	Ø650 / 26
Dimensions (Excluding the Blower) 【LxWxH】 (mm) / (in)	1450*1134*1963 / 57.1*44.6*77.2	1840*1350*2075 / 72.4*53.1*81.7	2000*1350*2075 / 78.7*53.1*81.7	2000*1350*2075 / 78.7*53.1*81.7	2500*1500*2200 / 98.4*59.1*86.7	2500*1500*2400 / 98.4*59.1*94.5
The air flow and Negative pressure is adjustable according to the actual condition, and then choose the bigger or more suitable power machine.						

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VJFGB-W

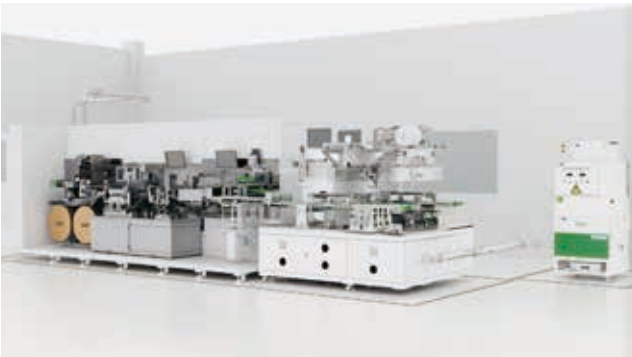
Explosion-proof Dust Collector with Medium Vacuum & Horizontal Cartridge

### Advantages & Features

- Specifically designed for safe operation in explosive environments.
- Enhances safety with ATEX certification for combustible environments.
- Provides medium vacuum pressure with an extra-large airflow capacity.
- Streamlines operation and maintenance with easily accessible horizontal cartridges.
- Easy to install and transport, making it adaptable for various setups.

### Applications

- Suited for applications with flammable and explosive dust, such as woodshops, sanding stations, and welding fume extraction. These systems effectively maintain clean air in environments with light to medium dust accumulation.



Learn more

### Optional Configurations

- Stainless Steel Construction
- Flameless Venting
- Explosion Isolation Valve
- Activated Carbon Filter
- Additional H13/H14 Filter
- Frequency Converter
- Air Speed Sensor & Temperature Sensor
- Dust Concentration Detector
- Multi-color Signal Tower

### Technical Parameters

Model	VJFGB-5.5W	VJFGB-7.5W	VJFGB-11W	VJFGB-15W	VJFGB-22W	VJFGB-30W
Voltage (V / Hz)	380 / 50					
Power(kW) / (HP)	5.5 / 7.5	7.5/ 10	11/15	15 / 20	22 / 30	30 / 40
Max air flow (m³/h) / (CFM)	3656 / 2152	4116 / 2423	4500 / 2649	5400 / 3178	6500 / 3824	8000 / 4706
Filter efficiency	>99%					
Filter area (m²) / (sq.ft)	44 / 473	44 / 473	44 / 473	44 / 473	88 / 948	176 / 1893
Filter cleaning method	Pulse jet					
Dia. air inlet (mm) / (in)	Ø 200 / 8	Ø 200 / 8	Ø 250 / 10	Ø 250 / 10	Ø 250 / 10	Ø273 / 10.7
Dimensions【LxWxH】 (mm) / (in)	2450*1260*2700 / 96.5*49.6*106.3	2450*1260*2700 / 96.5*49.6*106.3	2350*1400*2250 / 92.5*55.1*88.6	2450*1700*2300 / 96.5*66.9*90.6	2550*1700*2900 / 100.4*66.9*114.2	2550*1650*3680 / 100.4*65.0*144.9

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# VJFCB-W

Explosion-proof Dust Collector with High Vacuum & Horizontal Cartridge

## Advantages & Features

- Specifically designed for safe operation in explosive environments.
- Extra high vacuum pressure ideal for handling dense, heavy dust across extended distances.
- Streamlines operation and maintenance with easily accessible horizontal cartridges.
- Easy to install and transport, making it adaptable for various setups.

## Applications

- Often used in more specialized or heavy-duty applications that require strong, localized suction, such as metalworking, powder coating, and industrial cleaning, where the dust may be flammable or explosive and is more challenging to capture.



Learn more

## Optional Configurations

- Stainless Steel Construction
- Flameless Venting
- Explosion Isolation Valve
- Activated Carbon Filter
- Additional H13/H14 Filter
- Frequency Converter
- Air Speed Sensor & Temperature Sensor
- Dust Concentration Detector
- Multi-color Signal Tower

## Technical Parameters

Model	VJFCB-5.5W	VJFCB-7.5W	VJFCB-11W	VJFCB-15W	VJFCB-22W
Voltage (V / Hz)	380 / 50				
Power(kW) / (HP)	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20	22 / 30
Max air flow (m³/h) / (CFM)	432 / 254	600 / 353	900 / 529	1100 / 647	1940 / 1141
Max air pressure (mmH₂O) / (kPa)	1900 / 18.6	2000 / 19.6	2000/19.6	2000/19.6	2200 / 21.6
Filter efficiency	>99%				
Filter area (m²) / (sq.ft)	22 / 236.7				
Filter cleaning method	Pulse jet				
Dia. air inlet (mm) / (in)	Ø 75 / 3	Ø 75 / 3	Ø 100 / 4	Ø 100 / 4	Ø 150 / 6
Dimensions【LxWxH】 (mm) / (in)	1850*1130*2025 / 72.8*44.5*79.7	1850*1130*2025 / 72.8*44.5*79.7	2000*1120*2055 / 78.7*44.1*80.9	2125*1180*2075 / 83.7*46.5*81.7	2180*1000*2200 / 85.8*39.4*86.6

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VJFGB

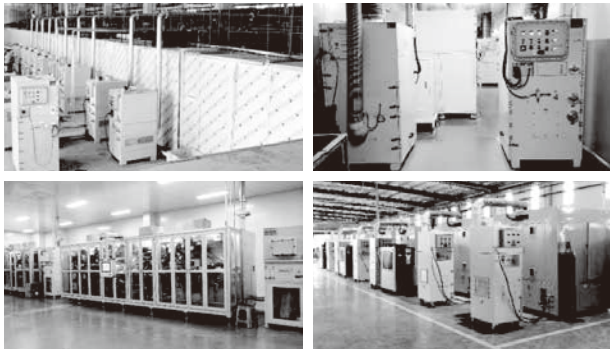
Explosion-proof Dust Collector with Medium Vacuum & Vertical Cartridge

## Advantages & Features

- Specifically designed for safe operation in explosive environments.
- Enhances safety with ATEX certification for combustible environments.
- Provides medium vacuum pressure with an extra-large airflow capacity.
- Compact structure to save floor space.
- Vertical filter installation, which reduces dust buildup on filters and enhances filter life.

## Applications

- Ideal for industries prone to flammable and explosive dust, such as food processing, metalworking, and lithium battery production. It's well-suited for dust removal applications in processes like food ingredient mixing, grinding, metal cutting and polishing, lithium battery roll pressing, slitting, and laser die-cutting.



## Technical Parameters

Model	VJFGB-1.5	VJFGB-2.2	VJFGB-3.0	VJFGB-4.0	VJFGB-5.5	VJFGB-7.5	VJFGB-11
Voltage(V/Hz)	380 / 50						
Power(kW) / (HP)	1.5 / 2.0	2.2 / 3.0	3.0/4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10	11/15
Starting current (A)	25	40	50	60	65	95	60.2
Rated current (A)	3.2	4.4	6	7.7	10.5	14.1	22.7
Max air flow(m³/h) / (CFM)	1231 / 725	1550 / 912	1875 / 1104	2416 / 1422	3656 / 2152	4116 / 2423	5300 / 3120
Filter efficiency	>99%						
Filter area(m²) / (sq.ft)	15/161				30/323		42/448
Filter cleaning method	Pulse jet						
Dia. air inlet(mm) / (in)	Ø 150 / 6			Ø 200 / 8			Ø 250 / 10
Dimension[L*W*H] (mm) / (in)	900*857*1920/35.4*33.7*75.6				1120*1085*1934/44.1*42.7*76.1		1120*1278.5*2180/44*50.3*85.8

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# VJFCB

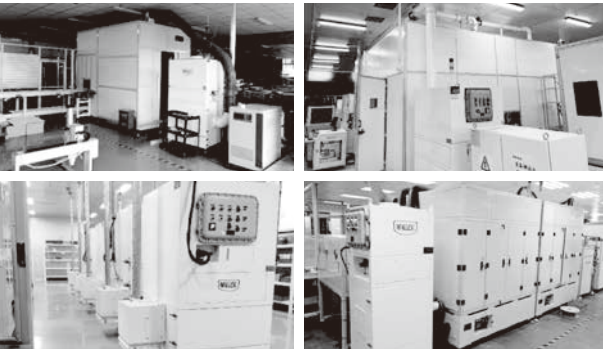
Explosion-proof Dust Collector with High Vacuum & Vertical Cartridge

## Advantages & Features

- High negative pressure system for enhanced dust collection efficiency.
- Explosion-proof design suitable for handling flammable and explosive dust.
- Compact structure to save floor space.
- Vertical filter installation, which reduces dust buildup on filters and enhances filter life.

## Applications

- Effectively addresses the flammable and explosive dust produced during laser welding, laser marking, and ultrasonic welding processes. Ideal for applications like dust removal in aluminum shell welding, module welding, and tab ultrasonic welding within lithium battery manufacturing.



## Technical Parameters

Model	VJFCB-1.5	VJFCB-2.2	VJFCB-3.0	VJFCB-4.0	VJFCB-5.5	VJFCB-7.5
Voltage (V / Hz)	380 / 50					
Power(kW) / (HP)	1.5 / 2.0	2.2 / 3.0	3.0 / 4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10
Starting current (A)	25	30	40	60	85	100
Rated current (A)	4.3	5.6	7.2	9	12.9	16.7
Max air flow (m³/h) / (CFM)	188 / 110	245 / 144	285 / 168	385 / 226	432 / 254	600 / 353
Max air pressure (mmH₂O) / (kPa)	1700 / 16.7	1800 / 17.7	1800 / 17.7	1800 / 17.7	1900 / 18.6	2000 / 19.6
Filter efficiency	>99%					
Filter area (m²) / (sq.ft)	7.7 / 82.8				10.4 / 112	
Filter cleaning method	Pulse jet					
Air inlet Dia. (mm) / (in)	Ø 50 / 2	Ø 50 / 2	Ø 50 / 2	Ø 50 / 2	Ø 75 / 3	Ø 75 / 3
Dimensions【LxWxH】 (mm) / (in)	850*780*1789 / 33.5*30.7*70.5				1020*830*1945 / 40.2*33*76.6	

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VJFB

Explosion-proof Dust Collector with High Airflow & Vertical Cartridge

## Advantages & Features

- Specifically designed for safe operation in explosive environments.
- Provides a large air volume capacity and pulse jet cleaning, ensuring thorough dust collection and effective filtration.
- Compact structure to save floor space.
- Vertical filter installation, which reduces dust buildup on filters and enhances filter life.

## Applications

- Specialized for collecting a broad range of flammable and explosive dust, the VJFB Series is ideal for industries such as powder metallurgy, aluminum powder grinding, grain processing, food production, high-polymer plastics manufacturing, synthetic dyes and coatings, pesticide production, pharmaceutical manufacturing, and plant fiber textile technology.



Learn more

## Optional Configurations

- Stainless Steel Construction
- Flameless Venting
- Explosion Isolation Valve
- Activated Carbon Filter
- Additional H13/H14 Filter
- Frequency Converter
- Air Speed Sensor & Temperature Sensor
- Dust Concentration Detector
- Multi-color Signal Tower

## Technical Parameters

Model	VJFB-1.5	VJFB-2.2	VJFB-3.0	VJFB-4.0	VJFB-5.5	VJFB-7.5	VJFB-11	VJFB-15
Voltage (V / Hz)	380 / 50							
Power(kW) / (HP)	1.5 / 2.0	2.2 / 3.0	3.0 / 4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20
Starting current (A)	25	40	50	56	65	95	120	150
Rated current (A)	3.2	4.4	6	7.7	10.5	14.1	20.5	28
Max air flow (m³/h) / (CFM)	1500 / 883	2200 / 1294	3000 / 1765	4000 / 2353	5300 / 3118	7100 / 4176	9000 / 5294	11000 / 6470
Filter area (m²) / (sq.ft)	11 / 118.5	22 / 237	22 / 237	44 / 474	44 / 474	66 / 710	99 / 1066	99 / 1066
Filter efficiency	>99%							
Dust container capacity (L) / (gal)	30 / 7.9	50 / 13.2		60 / 15.9 (2pcs)		80 / 21.2 (2pcs)	100 / 26.4 (2pcs)	100 / 26.4 (2pcs)
Noise dB (A)	73±2	75±2	76±2	76±2	78±2	79±2	80±2	81±2
Filter cleaning method	Pulse jet							
Air inlet Dia. (mm) / (in)	Ø150 / 6		Ø200 / 8		Ø250 / 10		Ø300 / 12	Ø350 / 14    Ø400 / 16
Dimensions【LxWxH】(mm) / (in)	795*680*1730 / 31.3*26.8*68.1		995*775*1860 / 39.2*30.5*73.3		1060*975*1950 / 41.7*38.4*76.8		1060*975*2050 / 41.7*38.4*80.7	1450*1000*2050 / 57.1*39.4*80.7    1450*1350*2180 / 57.1*53.1*85.9    1450*1350*2180 / 57.1*53.1*85.9
Weight (kg) / (lb)	200 / 441		280 / 618		300 / 662		450 / 992    470 / 1036	620 / 1367    830 / 1830    850 / 1874

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# VJFG

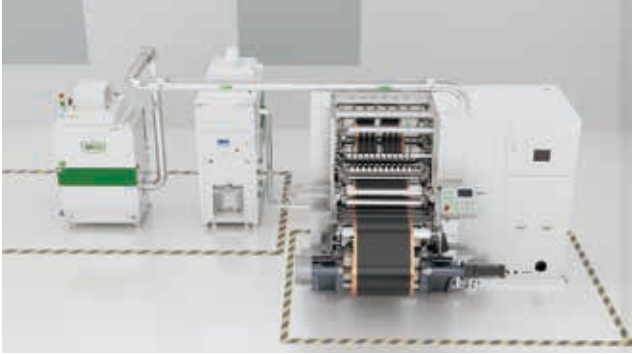
## Medium Negative Pressure Dust Collector

### Advantages & Features

- Provides medium vacuum pressure with an extra-large airflow capacity, suitable for handling substantial dust loads.
- Efficient pulse jet cleaning system helps extend filter life and minimizes maintenance requirements, ensuring consistent operation.
- Compact design offers placement flexibility and saves valuable floor space.
- The polyester filter material with PTFE coating captures 99.9% of dust particles as small as 0.3 microns.

### Applications

- Designed for continuous, high-efficiency dust collection, essential for demanding applications such as grinding, sandblasting, mixing, packaging, vibrating screens, crushing, and slitting.



Learn more

### Optional Configurations

- Stainless Steel Construction
  - Explosion-Proof Construction
  - Activated Carbon Filter
  - Additional H13/H14 Filter
  - Frequency Converter
- Air Speed Sensor
  - Temperature Sensor
  - Pressure Indication Light
  - Customizable Collection Box
  - Dust Concentration Detector

### Technical Parameters

Model	VJFG-1.5	VJFG-2.2	VJFG-3.0	VJFG-4.0	VJFG-5.5	VJFG-7.5	VJFG-11	VJFG-15
Voltage ( V / Hz)	380/50							
Power ( kW ) / ( HP )	1.5 / 2.0	2.2 / 3.0	3.0/4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20
Starting current (A)	25	40	50	60	65	95	120	150
Rated current (A)	3.2	4.4	6	7.7	10.5	14.1	20.5	28
Max air flow ( m³/h ) / ( CFM )	1231 / 725	1550 / 912	1875 / 1104	2416 / 1422	3656 / 2152	4116 / 2423	4500 / 2649	5400 / 3178
Filter area (m²) / ( sq.ft )	15/161				30/323		44 / 474	
Filter efficiency	>99%							
Dust container capacity ( L ) / ( gal)	60 / 15.9				108 / 28.5		115 / 30.4	138 / 36.5
Noise dB(A)	75±2	77±2	78±2	80±2	82±2	83±2	83±2	85±2
Filter cleaning method	Pulse jet							
Dia. air inlet (mm) / (in)	Ø 150 / 6			Ø 200 / 8			Ø 250 / 10	Ø 250 / 10
Dimension 【LxWxH】 (mm) / (in)	900*857*1920				1120*1085*1934		1120*1138*2061	1200*1240*2174

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VJFX

Auto Discharge Dust Collector

## Advantages & Features

- Equipped with a rotary discharge valve for automatic dust unloading.
- Large air volume capacity efficiently handles substantial dust loads.
- Efficient pulse jet filter cleaning extends filter life and minimizes maintenance.
- Compact design offers placement flexibility and saves valuable floor space.

## Applications

- Suitable for working condition with large amount of dust such as powder feeding, mixing, grinding or cutting, woodworking and so on.



Learn more

## Optional Configurations

- Stainless Steel Construction
  - Explosion-Proof Construction
  - Activated Carbon Filter
  - Additional H13/H14 Filter
  - Frequency Converter
  - Air Speed Sensor
- Temperature Sensor
  - Pressure Indication Light
  - Customizable Collection Box
  - Tank Level Alarm
  - Gate Valve
  - Dust Concentration Detector

## Technical Parameters

Model	VJFX-1.5	VJFX-2.2	VJFX-3.0	VJFX-4.0	VJFX-5.5	VJFX-7.5	VJFX-11	VJFX-15
Voltage (V / Hz)	380 / 50							
Power (kW) / ( HP )	1.5 / 2.0	2.2 / 3.0	3.0 / 4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20
Starting current (A)	25	40	50	56	65	95	120	150
Rated current (A)	3.2	4.4	6.0	7.7	10.5	14.1	20.5	28
Max air flow (m³/h) / ( CFM )	1500 / 883	2200 / 1294	3000 / 1765	4000 / 2353	5300 / 3118	7100 / 4176	9000 / 5294	11000 / 6470
Filter area (m²) / ( sq.ft )	11 / 118.5	22 / 237	22 / 237	44 / 474	44 / 474	66 / 710	99 / 1066	99 / 1066
Filter efficiency	>99%							
Dust container capacity (L) / ( gal)	According to customers' demand							
Noise dB (A)	73±2	75±2	76±2	76±2	78±2	79±2	80±2	81±2
Filter cleaning method	Pulse jet + Automatic discharge							
Ability of discharge (L/min) / ( gal/min)	48 / 12.7	96 / 25.4	96 / 25.4	96 / 25.4	96 / 25.4	240 / 63.4	240 / 63.4	240 / 63.4
Air inlet Dia. (mm) / (in)	Ø150 / 6		Ø200 / 8		Ø250 / 10		Ø300 / 12	Ø350 / 14
Dimensions【LxWxH】(mm) / (in)	1100*800*2750 / 43.3*31.5*108.3	1270*800*2900 / 50*31.5*114.2	1270*800*2900 / 50*31.5*114.2	1300*1000*2950 / 51.2*39.4*116.1	1400*1100*3300 / 55.1*43.3*129.9	1800*1000*3400 / 70.9*39.4*133.9	1850*1500*3800 / 72.8*59.1*149.6	1850*1500*3800 / 72.8*59.1*149.6
Weight (kg) / (lb)	300 / 661	350 / 772	400 / 882	560 / 1235	580 / 1279	760 / 1676	1030 / 2271	1050 / 2315

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VJF

Pulse Jet Dust Collector

## Advantages & Features

- High-performance multi-motor power ensures effective and consistent dust removal.
- Large air volume capacity efficiently handles substantial dust loads.
- Efficient pulse jet filter cleaning extends filter life and minimizes maintenance.
- Compact design offers placement flexibility and saves valuable floor space.

## Applications

- Designed for continuous, high-efficiency applications such as grinding, sandblasting, mixing, packaging, vibrating screens, and crushing processes.



Learn more

## Optional Configurations

- Stainless Steel Construction
  - Explosion Proof Construction
  - Moderate Pressure Motor
  - Activated Carbon Filter
  - Additional H13/H14 Filter
- Frequency Converter
  - Air Speed Sensor
  - Temperature Sensor
  - Dust Container
  - Dust Concentration Detector

## Technical Parameters

Model	VJF-1.5	VJF-2.2	VJF-3.0	VJF-4.0	VJF-5.5	VJF-7.5	VJF-11	VJF-15
Voltage (V / Hz)	380 / 50							
Power(kW) / (HP)	1.5 / 2.0	2.2 / 3.0	3.0 / 4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20
Starting current (A)	25	40	50	56	65	95	120	150
Rated current (A)	3.2	4.4	6	7.7	10.5	14.1	20.5	28
Max air flow (m <sup>3</sup> /h) / (CFM)	1500 / 883	2200 / 1294	3000 / 1765	4000 / 2353	5300 / 3118	7100 / 4176	9000 / 5294	11000 / 6470
Filter area (m <sup>2</sup> ) / (sq.ft)	11 / 118.5	22 / 237	22 / 237	44 / 474	44 / 474	66 / 710	99 / 1066	99 / 1066
Filter efficiency	>99%							
Dust container capacity (L) / (gal)	30 / 7.9	50 / 13.2		60 / 15.9 (2pcs)		80 / 21.2(2pcs)	100 / 26.4(2pcs)	100 / 26.4(2pcs)
Noise dB (A)	73±2	75±2	76±2	76±2	78±2	79±2	80±2	81±2
Filter cleaning method	Pulse Jet							
Air inlet Dia. (mm) / (in)	Ø150 / 6		Ø200 / 8		Ø250 / 10		Ø300 / 12	Ø350 / 14    Ø400 / 16
Dimensions【LxWxH】(mm) / (in)	795*630*1730 / 31.3*24.8*68.1		995*725*1860 / 39.2*28.6*73.3		1060*925*1950 / 41.7*36.4*76.8		1450*955*2050 / 57.1*37.6*80.7	
Weight (kg) / (lb)	180 / 397	260 / 574	280 / 618	430 / 948	450 / 992	600 / 1323	810 / 1786	830 / 1830

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# VN

Built-In Separator Dust Collector with Horizontal filter

## Advantages & Features

- Compact design with built-in separator.
- Large air volume for high efficiency.
- Pulse jet cleaning for continuous operation.
- PTFE coated filters that capture 99.9% of dust at 0.3 microns.
- Easy installation and replacement with horizontal cartridge filters.

## Applications

- An efficient solution for processes such as laser cutting of sheet metal, grinding, sandblasting, and other industrial operations.



Learn more

## Optional Configurations

- Stainless Steel Construction
- Explosion-Proof Construction
- Activated Carbon Filter
- Additional H13/H14 Filter
- Frequency Converter
- Air Speed Sensor
- Temperature Sensor
- Tank Level Alarm
- Multi-color Signal Tower
- Customizable Collection Box
- Dust Concentration Detector

## Technical Parameters

Model	VN-4500	VN-6500	VN-8500
Voltage (V / Hz)	380 / 50		
Power (kW) / (HP)	5.5 / 7.5	7.5 / 10	11 / 15
Starting current (A)	90	110	130
Rated current (A)	10.5	14.1	20.5
Max air flow (m³/h) / ( CFM )	4500 / 2650	6500 / 3825	8500 / 5000
Filter area (m²) / ( sq.ft )	76 / 818	114 / 1226	114 / 1226
Dia. air inlet (mm) / (in)	Ø 250 / 10	Ø 300 / 12	Ø 300 / 12
Noise dB (A)	75±2	76±2	77±2
Filter efficiency	>99%		
Filter cleaning method	Pulse jet		
Dimensions 【LxWxH】 (mm) / (in)	1400*1250*2290 / 55.1*49.2*90.2		
	1600*1500*3185/63.0*59.1*125.4		

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VJ-H

## Easy Clean Industrial Dust Collector

### Advantages & Features

- Large air volume capacity efficiently handles substantial dust loads.
- Compact design offers placement flexibility and saves valuable floor space.
- Equipped with a patented manual filter cleaning system, allowing easy dust removal with a rotary handle, saving on maintenance time and costs.
- Offers flexibility with filters that can be water and oil-resistant, polyester, or other materials as needed, catering to diverse applications.
- Easy installation and replacement with horizontal cartridge filters.

### Applications

- Ideal for compact spaces, integrating seamlessly with a range of machinery applications, including: Lithium battery slitting, Composite material cutting, CNC machining, PCB V-CUT, Vertical sawing for wood or metal processing.



Learn more

### Optional Configurations

- Stainless Steel Construction
- Explosion-Proof Construction
- Activated Carbon Filter
- Additional H13/H14 Filter
- Frequency Converter
- Multi-color Signal Tower
- Expanded Dust Collection Bin Capacity

### Technical Parameters

Model	VJ-1.5H	VJ-2.2H	VJ-3.0H
Voltage (V / Hz)	380 / 50		
Power (kW) / ( HP )	1.5 / 2.0	2.2 / 3.0	3.0 / 4.0
Starting current (A)	25	40	50
Rated current (A)	3.2	4.4	6.0
Max air flow (m³/h) / ( CFM )	1500 / 883	1900 / 1118	2300 / 1353
Air inlet Dia. (mm) / (in)	Ø 150 / 6		
Noise dB (A)	73±2	75±2	77±2
Filter area ( m² ) / ( sq.ft )	5.4 / 58		
Filter efficiency	>99%		
Filter cleaning method	Rotary vane dust vibration structure		
Capacity of the dust container(L) / (gal)	15 / 4.0		
Dimensions【LxWxH】(mm) / (in)	700*660*1250 / 26.7*26*49.2	700*660*1250 / 26.7*26*49.2	700*660*1320 / 26.7*26*52
Weight (kg) / (lb)	165 / 363	170 / 375	185 / 408

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VHX

Compact Multiple Filtration Fume Extractor

## Advantages & Features

- Extra Compact design with large airflow.
- Multiple filtration, 99.97%-99.99% efficiency at 0.3 microns.
- Brushless motor for durability.
- 360-degree rotation suction arm.
- PWM controller for variable air volume

## Applications

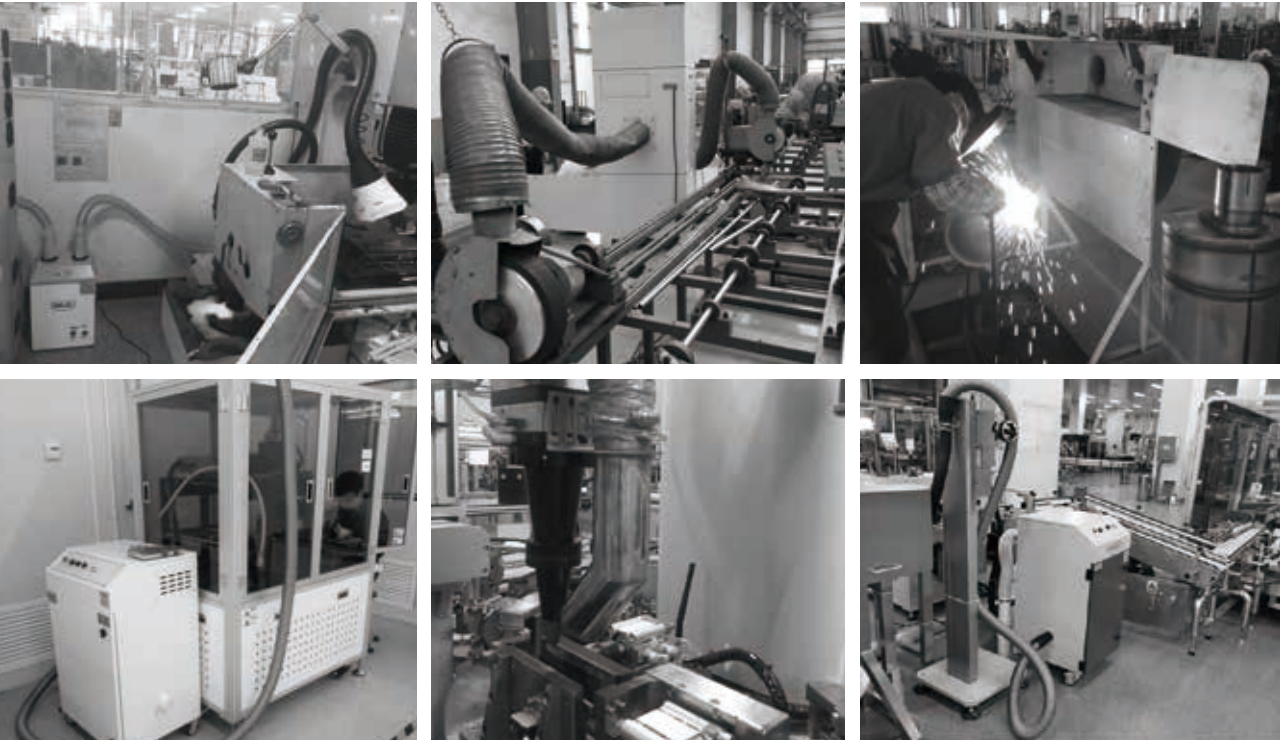
- Ideal for low power laser welding, cutting, engraving, and other laser processing applications, particularly suited for the automotive industry and industrial automation sectors.

## Optional Configurations

- Stainless Steel Construction
  - Explosion-Proof Construction
  - Filter Cartridge Construction
  - HEPA Filters
- Frequency Converter
  - Multi-color Signal Tower
  - Swivel Casters with Brake



Learn more



# VH

High-Power Multiple Filtration Fume Extractor

## Advantages & Features

- High-power system provides significant suction capacity.
- Extra Compact design with large airflow.
- Multiple filtration, 99.97%-99.99% efficiency at 0.3 microns.
- Brushless motor for durability.
- 360-degree rotation suction arm.
- PWM controller for variable air volume.

## Applications

- The VH Series is particularly effective for processes like welding, cutting, and grinding. It is especially well-suited for soldering applications in the electronics industry, such as circuit board manufacturing.



Learn more



## Technical Parameters

Model	VHX-15J	VHX-15	VHX-15D	VH-400	VH-1000
Voltage (V / Hz)	220 / 50				
Power (W) / (HP)	135 / 0.18			400 / 0.55	1000 / 1.34
Rated current (A)	1.6			2.8	6.8
Max air flow (m³/h) / ( CFM )	132 / 77			232 / 135	415 / 244
Noise dB (A)	65±2			68±2	70±2
Air inlet Dia. (mm) / (in)	Ø 50 / 2.0	Ø 50 / 2.0	2*Ø 50 / 2	Ø 50 / 2	Ø 100 / 4
Filter efficiency	>99%				
Dimensions【LxWxH】 (mm) / (in)	320*300*460 / 12.6*11.8*18.1			550*530*1050 / 21.7*20.9*41.3	700*550*1250 / 27.5*21.6*49.2
Weight (kg) / ( lb )	20 / 44	20 / 44	22 / 48.5	65 / 143	85 / 187

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# VHT

Compact Cartridge Filter Fume Extractor

## Advantages & Features

- Extra compact design
- PTFE coated cartridge filter, 99.99% efficiency at 0.3 microns
- Brushless motor for durability
- 360-degree rotation suction arm

## Applications

- Smoke purification in single-phase voltage working conditions, such as soldering, wave soldering, laser welding, sculpture, etc.

## Optional Configurations

- Stainless Steel Construction
  - Explosion-Proof Construction
  - Odor Removal Construction
  - Manual/Self-Cleaning Filter (Optional)
- Frequency Converter
  - Swivel Casters with Brake
  - Multi-color Signal Tower



Learn more



# VH-T

Cartridge Fume Extractor

## Advantages & Features

- Pulse jet self cleaning.
- PTFE coated cartridge filter, 99.99% efficiency at 0.3 microns.
- Brushless motor for durability.
- 360-degree rotation suction arm .

## Applications

- Welding (manual arc welding, gas shielded arc welding, argon arc welding, etc.), cutting, grinding, and other smoke purification applications.



Learn more



## Technical Parameters

Model	VHT-15S	VH-150T	VH-220T
Voltage (V / Hz)	220 / 50	380 / 50	
Power (W) / (HP)	135 / 0.18	1500 / 2.0	2200 / 3.0
Rated current (A)	1.6	3.2	4.4
Max air flow (m³/h) / ( CFM )	165 / 97	1500 / 883	1900 / 1118
Noise dB (A)	65±2	73±2	75±2
Air inlet Dia. (mm) / (in)	Ø 50 / 2.0	Ø 150 / 6.0	Ø 150 / 6.0(2pcs, Ø150/pcs)
Filter area(m²)/ ( sq.ft )	0.72 / 7.7	10.6 / 114	
Filter efficiency	>99%	>99%	
Dimensions【LxWxH】 (mm) / (in)	320*300*520 / 12.6*11.8*20.5		700*750*1520 / 27.6*29.5*58.9
Weight (kg) / ( lb )	23 / 50.7		150 / 331

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VCY

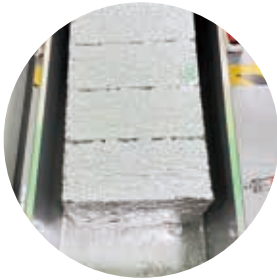
## Recycling Compactor

### Advantages & Features

- Powerful servo compression module efficiently compacts waste, minimizing dust residue and ensuring safe operation.
- Material separation reduces contamination, enhancing the recycling value of collected waste.
- Advanced Two-Stage Filtration ensure clean exhaust air, meeting Class 10,000 standards for safe discharge.
- Designed for 24-hour operation, minimizing downtime and maximizing production efficiency.
- PLC control panel enables easy operation and real-time monitoring of equipment status.

### Applications

- Ideal for battery processing, including mechanical notching, pre-slitting of pole piece forming machines, and winding operations.



Learn more

### Comparison: Villo Waste Compactor vs. Another Market Brand

Brand	Villo	Market Brand
Maximum Feeding Speed (m/min)	120	80
Number of Simultaneous Feedings (units)	2	1
Compressed Waste Density (kg/m³)	220	120
Storable Waste Weight (kg)	25	14
Waste Bin Cleaning Frequency (hours)	6~8	3~4
Cleaning Time per Cycle (minutes)	3~5	5~8
Risk of Dust/Waste Leakage	N	Y

### Technical Parameters

Model	VCY-DGYS-T-800-CE
Voltage (V / Hz)	400 / 50
Total power (kW)	7.5
Cutting parameters	Width: ≤50mm
	Thickness: ≤100μm
	Cutting speed: ≤90m/min
	Quantity: ≤2 continuous or segmented
Air speed requirement of exhaust port (m/s)	≥25
Compressed air pressure (Mpa)	0.5-0.6
Noise dB(A)	≤75
Inlet diameter (mm)	custom made
Number of filter cartridges (pcs)	2
Collection interval (H)	4~8
Dimensions 【LxWxH】 (mm)	3335*1270*2900

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.





## Industrial Vacuum Cleaners

2.1

### Central Vacuum System

The Central Vacuum System is a multi-user vacuum system designed to be used by multiple users simultaneously across different locations within a facility. These systems enable efficient cleaning of large or multi-story buildings where multiple users can work concurrently in different areas.

2.2

### Explosion-proof Vacuum Cleaner

Designed for hazardous environments, the Explosion-Proof Vacuum Cleaner ensures safe and efficient dust collection in industries like chemicals, pharmaceuticals, and food processing. Its explosion-proof construction minimizes ignition risks while providing high cleaning performance. Ideal for use in multiple areas of a facility by several operators simultaneously.

2.3

### Heavy-duty Vacuum Cleaner

The Heavy-Duty Vacuum Cleaner is built for demanding industrial applications, capable of handling large volumes of dust, debris, and heavy materials. With powerful suction and durable construction, it is ideal for factories, warehouses, and other tough cleaning environments.

2.4

### HEPA Vacuum Cleaner

The HEPA Vacuum Cleaner is designed for environments requiring high-efficiency filtration. Equipped with a HEPA filter, it captures 99.97% of particles as small as 0.3 microns, ensuring clean air and improved indoor air quality. Ideal for medical, pharmaceutical, and cleanroom applications.

2.5

### Wet & Dry Vacuum Cleaner

The Wet & Dry Vacuum Cleaner offers versatile cleaning for both wet and dry debris. With a robust design, it efficiently handles liquids, dust, and debris, making it suitable for industrial, commercial, and workshop environments where various cleaning tasks are required.

2.6

### Compact Economical Vacuum Cleaner

The Compact Economical Vacuum Cleaner is a cost-effective solution for smaller spaces or lighter cleaning tasks. Its compact design allows easy storage, while maintaining reliable performance for everyday cleaning in homes, offices, and small businesses.

# VJCF

## Central Vacuum System

### Advantages & Features

- Multi-user operation simultaneously
- High cleaning efficiency
- Simplifying disposal and maintenance
- Quiet and consistent operation
- Freeing up workspace
- Self-cleaning cartridge



Learn more

### Applications

- Ideal for battery and PCB processing, including notching, slitting, winding, multi-axis drilling, board grinding, chamfering, cutting, and central workshop cleaning.



Learn more

### VJCF Max

Central High Power Vacuum System



Learn more

### VJCF Max Pro

Central High Power Vacuum System with Plate Filter

### Optional Configurations

- Stainless Steel Construction
- Explosion Isolation Valve
- Activated Carbon Filter
- Additional H13/H14 Filter
- Frequency Converter
- Air Speed Sensor
- Temperature Sensor
- Central control system with variable frequency and constant pressure
- Dust Concentration Detector
- Multi-color Signal Tower

### Technical Parameters

Model	VJCF-75	VJCF-110	VJCF-125	VJCF-150	VJCF-185	VJCF-200	VJCF-250
Voltage(V / Hz)	380 / 50						
Power (kW) / (HP)	7.5 / 10.0	11.0 / 15.0	12.5 / 16.8	15 / 20	18.5 / 25	20 / 27	25 / 33.5
Rated current (A)	16.7	28	30	35	37	40	52
Max air flow (m³/h) / (CFM)	700 / 412	900 / 530	1050 / 618	1150 / 677	1370 / 806	1940 / 1141	1940 / 1141
Max air pressure (mmH₂ O) / (kPa)	2700 / 26.5	2800 / 27.5	2800 / 27.5	3300 / 32.3	3100 / 30.5	2200 / 21.6	3100 / 30.5
Filter area (m²) / (sq.ft)	22 / 237				44/474		
Filter efficiency	>99%						
Filter cleaning method	Pulse jet						
Dust container capacity (L) / (gal)	50 / 13.2				80 / 21		
Noise dB (A)	72±2	74±2	74±2	74±2	77±2	77±2	80±2
Form of emptying	Traveler curtain type holder-on container						
Air inlet Dia. (mm) / (in)	Ø75 / 3	Ø100 / 4	Ø100 / 4	Ø100 / 4	Ø150 / 6	Ø150 / 6	Ø150 / 6
Dimensions【LxWxH】(mm) / (in)	1350*900*1750 / 53*35.4*68.9				1700*900*1850 / 67.0*35.5*72.9		
Weight (kg) / (lb)	430 / 948	470 / 1036	500 / 1102	530 / 1169	600 / 1323	625 / 1378	650 / 1433

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VZSB

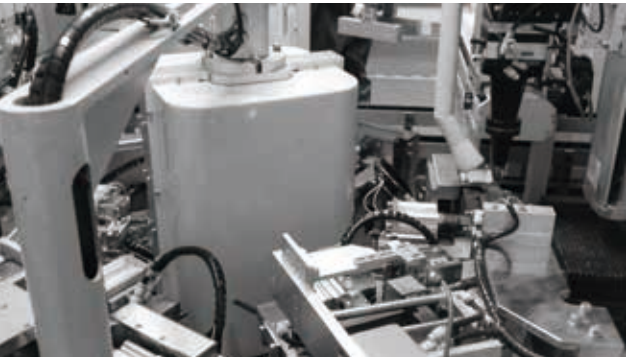
ATEX Vacuum Cleaner for Heavy-Duty Use

## Advantages & Features

- Specifically designed for safe operation in explosive environments.
- Enhances safety with ATEX certification for combustible environments.
- Customizable voltage options, including single-phase for power ≤ 2.2kW.
- Two filtration options to accommodate varying filtration accuracy needs.
- Built-in filter cleaning device for hassle-free maintenance.
- Maintenance-free turbine motor designed for continuous 24-hour operation.
- Integrated pressure gauge for real-time filter clogging detection.
- Easy-to-clean dust container for streamlined disposal.

## Applications

- Designed for high-pressure dust and particle extraction in continuous or centralized vacuum systems. Ideal for single or three-phase working conditions, they meet explosion-proof safety standards and are perfect for industries such as metal processing (grinding, cutting, drilling, polishing, and active metals like aluminum, magnesium, and titanium), woodworking, food, chemical, and machine cleaning applications.



Learn more

## Optional Configurations

- Spark Trap
- Remote Control

## Technical Parameters

Model	VZSB-20	VZSB-34	VZSB-52
Voltage (V / Hz)	230 / 50	400 / 50	400 / 50
Power (kW) / (HP)	2.0 / 2.7	3.4 / 4.6	5.2 / 7.0
Starting current (A)	55	50	90
Rated current (A)	13	8	10
Max air flow (m³/h) / (CFM)	210 / 123	264 / 155	353 / 208
Max vacuum (mmH <sub>2</sub> O) / (kPa)	1200 / 16.6	2000 / 19.7	2000 / 19.7
Noise dB (A)	72±2	78±2	78±2
Air inlet Dia. (mm) / (in)	Ø 50 / 2		
Filter area (m²) / (sq.ft)	3.0 / 32.3		
Filter efficiency	>99%		
Capacity of collection barrel (L) / (gal)	100 / 26.4		
Dimensions【LxWxH】(mm) / (in)	1350*880*1500 / 53.1*34.6*59		
Weight (kg) / (lb)	130 / 286	150 / 330	180 / 397

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VZF

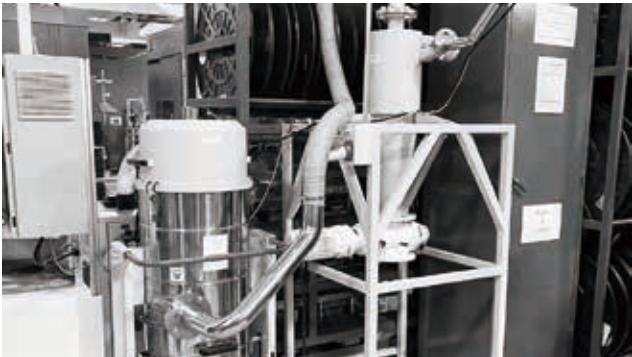
## Heavy Duty Industrial Vacuum Cleaner with Pulse Jet System

### Advantages & Features

- Customizable voltage options, including single-phase for power ≤ 2.2kW.
- Two filtration options to accommodate varying filtration accuracy needs.
- Built-in filter cleaning device for hassle-free maintenance.
- Maintenance-free turbine motor designed for continuous 24-hour operation.
- Integrated pressure gauge for real-time filter clogging detection.
- Easy-to-clean dust container for streamlined disposal.

### Applications

- Ideal for extracting large mixed particles or chips in continuous operations or centralized extraction systems. Suitable for three-phase working conditions, they excel in handling heavy and fine dust for continuous use. Perfect for industries such as metal processing (grinding, cutting, drilling, sandblasting), PCB manufacturing (cutting, drilling, routing), and machine cleaning applications.



Learn more

### Optional Configurations

- Explosion-Proof Construction
- PLC Control Panel
- Air Compressor
- Remote Control
- Manual Filter Cleaning Version

### Technical Parameters

Model	VZF-22	VZF-30	VZF-40	VZF-55	VZF-75
Voltage (V / Hz)	380 / 50				
Power (kW) / (HP)	2.2 / 3.0	3.0 / 4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10.0
Starting current (A)	30	40	60	85	100
Current (A)	5.6	7.2	9	12.9	16.7
Max air flow (m³/h) / (CFM)	245 / 144	285 / 168	385 / 226	432 / 254	600 / 353
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2000 / 19.6	2100 / 20.6	2200 / 21.6	2200 / 21.6	2300 / 22.6
Noise dB (A)	72±2	74±2	75±2	76±2	78±2
Dia. air inlet (mm) / (in)	Ø 50 / 2				
Filter area (m²) / (sq.ft)	5.3 / 57				
Filter efficiency	>99%				
Capacity of collection barrel (L) / (gal)	100 / 26.4				
Dimensions【LxWxH】(mm) / (in)	1350*670*1570 / 53.1*26.4*61.9				
Weight (kg) / (lb)	150 / 330	158 / 348	165 / 366	187 / 412	190 / 419

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# VZ

## Heavy Duty Industrial Vacuum Cleaner

### Advantages & Features

- Customizable voltage options, including single-phase for power ≤ 2.2kW.
- Two filtration options to accommodate varying filtration accuracy needs.
- Built-in filter cleaning device for hassle-free maintenance.
- Maintenance-free turbine motor designed for continuous 24-hour operation.
- Integrated pressure gauge for real-time filter clogging detection.
- Easy-to-clean dust container for streamlined disposal.

### Applications

- Designed for three-phase working conditions, this system is ideal for continuous operation in environments with heavy and fine dust. Applications include metal processing (grinding, cutting, drilling, and similar tasks), PCB manufacturing (cutting, drilling, routing), and machine cleaning.



Learn more

### Optional Configurations

- ATEX Explosion-Proof Construction
- Self-Cleaning System
- Filter Bag Version
- PLC Control Panel
- Air Compressor
- Remote Control

### Technical Parameters

Model		VZ-22	VZ-30	VZ-40	VZ-55	VZ-75
		VZS-22	VZS-30	VZS-40	VZS-55	VZS-75
Voltage (V / Hz)		380 / 50				
Power (kW) / (HP)		2.2 / 3.0	3.0 / 4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10.0
Starting current (A)		30	40	60	85	100
Rated current (A)		5.6	7.2	9	12.9	16.7
Max air flow (m³/h) / (CFM)		245 / 144	285 / 168	385 / 226	432 / 254	600 / 353
Max vacuum (mmH₂ O) / (kPa)		2000 / 19.6	2100 / 20.6	2200 / 21.6	2200 / 21.6	2300 / 22.6
Noise dB (A)		72±2	74±2	75±2	76±2	78±2
Dia. air inlet (mm) / (in)		Ø 50 / 2				
Filter area (m²) / (sq.ft)	VZ series	1.5 / 16.1				
	VZS series	3.0 / 32.3				
Filter efficiency		>99%				
Capacity of collection barrel (L) / (gal)		100 / 26.4				
Dimensions【LxWxH】(mm) / (in)		1360*670*1525 / 53.5*26.4*60				
Weight (kg) / (lb)		132 / 291	140 / 308	148 / 326	171 / 377	174 / 384

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VFG

## HEPA Vacuum Cleaner with Two-Stage Filtration

### Advantages & Features

- Compact and Mobile Design
- Two-Stage Filtration Ensures high filtration accuracy and efficiency.
- Filter Cleaning Device: Simplifies maintenance for hassle-free operation.
- Options include carbon brush motors with independent controllers or maintenance-free turbine motors for 24-hour continuous use.
- Dust Collection Cassettes enable easy cleaning and prevent secondary pollution.
- Pressure Gauge provides real-time detection of filter clogging.

### Applications

- Ideal for hazardous dust, including chemical dust (non-flammable and explosive), silicon powder (concrete dust), carbon powder, and fine metal dust. Effectively reduces the risk of secondary dust pollution and is suitable for precious metal dust collection, improving the efficiency of dust recycling.
- **VFG-S Series:** Designed for single-phase working conditions, it uses a carbon brush motor with high pressure and adjustable airflow, making it ideal for high-precision, single-phase applications.
- **VFG-E Series:** Designed for three-phase working conditions, it features a turbine motor, making it ideal for long working hours and high-pressure applications, particularly in high-precision, three-phase tasks.



Learn more

### Optional Configurations

- Single phase self-cleaning version
- Three phase self-cleaning version
- Lifting structure version
- Soft starter (Models with power greater than 4kW)
- Remote Control

### Technical Parameters

Model	VFG-1S	VFG-2S	VFG-3S	VFG-40E	VFG-75E	VFG-86E
Voltage (V / Hz)		230 / 50			380 / 50	
Power (kW) / (HP)	1.2 / 1.7	2.4 / 3.4	3.6 / 5.1	4.0 / 5.5	5.0 / 7.5	7.5 / 10
Starting current (A)	12	28	45	60	85	110
Rated current (A)	6	12	17	9	12.9	16.7
Max air flow (m³/h) / (CFM)	220 / 129	353 / 208	480 / 282	385 / 226	432 / 254	600 / 353
Max vacuum (mmH₂ O) / (kPa)	2000 / 19.8	2200 / 21.6	2400 / 23.5	2200 / 21.6	2200 / 21.6	2300 / 22.6
Noise dB (A)	85±2	87±2	90±2	75±2	76±2	78±2
Air inlet Dia. (mm) / (in)	Ø 50 / 2	Ø 50 / 2	Ø 50 / 2	Ø 50 / 2	Ø 75 / 3	Ø 75 / 3
Filter area (m²) / (sq.ft)	1.5 / 16.2	2.4 / 25.8	2.8 / 30.1	1.9 / 20.5	2.1 / 22.6	2.1 / 22.6
Filter efficiency	>99.9%					
Dimensions【LxWxH】(mm) / (in)	850*480*1200 / 31.5*18.0*47.0	860*580*1220 / 33.8*23.0*48.0	940*580*1370 / 37.0*23.0*55.0	980*650*1550 / 38.6*25.6*61	1270*730*1620 / 50*28.7*63.8	1270*730*1620 / 50*28.7*63.8
Weight (kg) / (lb)	62 / 121	80 / 176	90 / 198	165 / 364	230 / 507	230 / 507

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# VS

## Wet & Dry Vacuum Cleaner

### Advantages & Features

- Three-phase industrial vacuum cleaners designed for high-pressure applications.
- Two filter bag options, ideal for both wet and dry applications.
- Compact and mobile, ensuring flexibility in different work environments.
- Customizable voltage to meet specific requirements.
- Single-Phase compatibility, offering more options for different power setups.
- Equipped with a discharge hose for liquids, expanding the range of cleaning tasks.
- Pressure gauge to detect filter clogging.

### Applications

- Ideal for high-precision wet and dry general cleaning applications, suitable for continuous working conditions, effective for wet and dry dust vacuum cleaning, and applicable for general cleaning and various industrial cleaning tasks.



Learn more

### Optional Configurations

- Stainless Steel Construction
- Filter Cartridge Type
- Remote Control

### Technical Parameters

Model	VS-22J	VS-40J
Voltage (V / Hz)	380 / 50	
Power (kW) / (HP)	2.2 / 3.0	4.0 / 5.5
Starting current (A)	30	60
Rated current (A)	5.6	9
Max air flow (m³/h) / (CFM)	205 / 120	355 / 210
Max vacuum (mmH <sub>2</sub> O) / (kPa)	1630 / 16	2000 / 19.6
Noise dB (A)	74±2	75±2
Dia. air inlet (mm) / (in)	Ø 40 / 1.6	
Filter area (m²) / (sq.ft)	0.3 / 3.2	0.3 / 3.2
Filter efficiency	>99%	
Capacity of collection barrel (L) / (gal)	80 / 21.1	
Dimensions【LxWxH】(mm) / (in)	1200*570*1150 / 47.3*22.5*45.3	
Weight (kg) / (lb)	70 / 155	80 / 176

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VA

## 3-phase Compact Vacuum Cleaner

### Advantages & Features

- Three-phase vacuum cleaners with high pressure for efficient cleaning.
- Customizable voltage options.
- For power ≤ 2.2 kW, the machine can be configured for single-phase operation.
- Equipped with a filter cleaning device for easy maintenance.
- Maintenance-free, powerful turbine motor capable of continuous 24-hour operation.
- Easy-to-clean dust container for hassle-free maintenance.

### Applications

- Ideal for suctioning large mixed particles or chips in continuous applications. Suitable for three-phase operation, it excels in environments with heavy and fine dust. Commonly used in metal processing(grinding, cutting, drilling, etc.), PCB manufacturing (cutting, drilling, routing, etc.), textile cleaning, and machine cleaning.



### Optional Configurations

- Explosion-Proof Construction
- Filter Cartridge Version
- Motor Casing
- Self-Cleaning Version
- Remote Control

### Technical Parameters

Model	VA-22J	VA-40J
Voltage (V / Hz)	380 / 50	380 / 50
Power (kW) / (HP)	2.2 / 3.0	4.0 / 5.5
Starting current (A)	30	60
Rated current (A)	5.6	9
Max air flow (m³/h) / (CFM)	210 / 123	400 / 235
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2000 / 19.6	2100 / 20.5
Noise dB (A)	74±2	75±2
Air inlet Dia. (mm) / (in)	Ø 50 / 2	
Filter area (m²) / (sq.ft)	1.5 / 16.1	
Filter efficiency	>99%	
Capacity of collection barrel (L) / (gal)	65 / 17.2	
Dimensions【LxWxH】(mm) / (in)	1080*650*1300 / 42.5*25.6*51.2	
Weight (kg) / (lb)	90 / 198	100 / 220

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# V3

## Single-phase Compact Vacuum Cleaner

### Advantages & Features

- Single-phase industrial vacuum cleaners with high pressure and adjustable airflow.
- Features three powerful motors with independent controllers.
- Filter bag or filter cartridge options available.
- Equipped with a filter cleaning device for effortless maintenance.
- Easy-to-clean dust container for quick and efficient disposal.
- Compact and mobile structure for convenient operation.

### Applications

- Ideal for high-precision general cleaning tasks, the Single-Phase Compact Vacuum Cleaner is designed for single-phase working conditions and applications requiring mobility and adjustable airflow, making it perfect for tasks such as general floor cleaning.



### Optional Configurations

- Turbine Motor Version
- Stainless Steel Construction
- Remote Control

### Technical Parameters

Model	V3J	V3JS
Voltage (V / Hz)	220 / 50	
Power (kW) / (HP)	3.6 / 4.8 (3 pcs, 1.2kW / pcs)	
Starting current (A)	40	
Rated current (A)	17	
Max air flow (m³/h)/(CFM)	353 / 208	425 / 250
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2450 / 24	
Noise dB (A)	87±2	
Air inlet Dia. (mm) / (in)	Ø 50 / 2	
Filter area (m²) / (sq.ft)	1.5 / 16.1	3.0 / 32.3
Filter efficiency	>99%	
Capacity of collection barrel (L) / (gal)	65 / 17.2	
Dimensions【LxWxH】(mm) / (in)	780*670*1460 / 30.7*26.4*57.5	780*670*1460 / 30.7*26.4*57.5
Weight (kg) / (lb)	76 / 167.5	85 / 187.4

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



# VTS

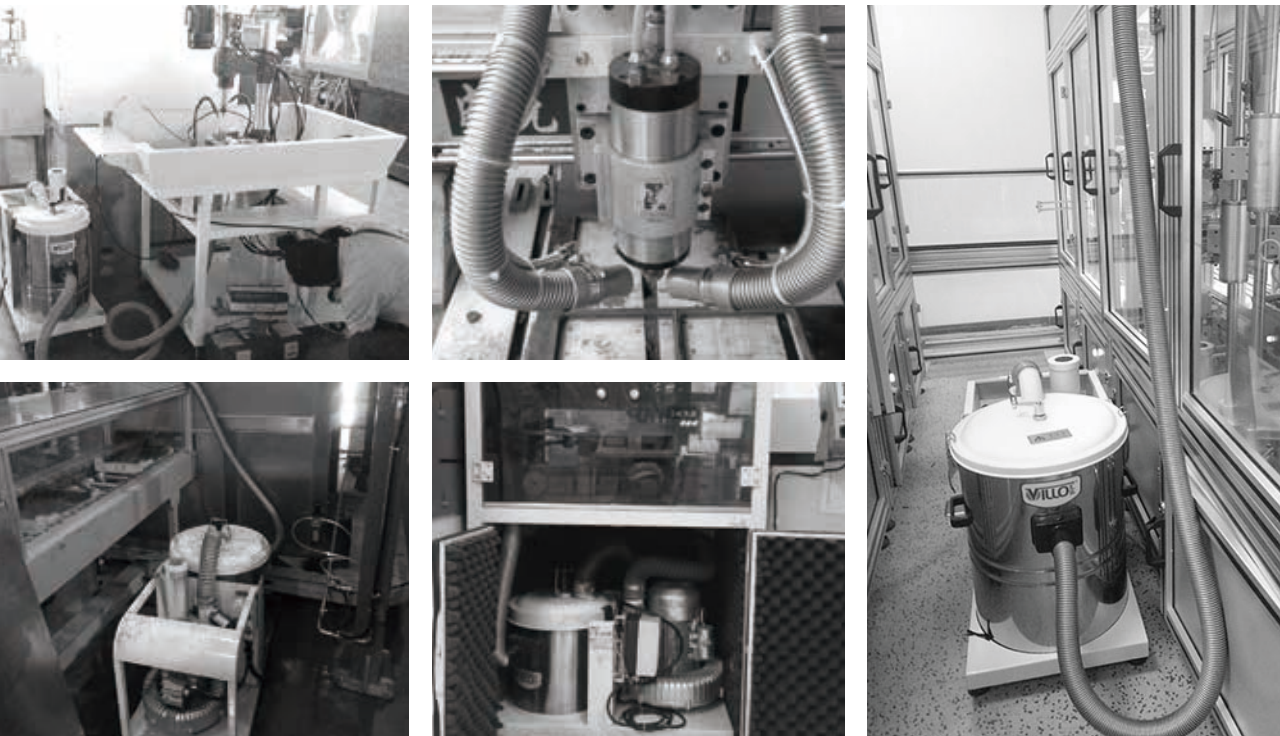
Compact Economical Vacuum Cleaner

## Advantages & Features

- Offer high pressure with single-phase or three-phase options.
- Compact design with customizable voltage ( $\leq 2.2$  kW for single-phase).
- Equipped with a filter cleaning device for easy maintenance.
- Maintenance-free turbine motor supports 24-hour continuous use.
- Pressure gauge for detecting filter clogging.

## Applications

- Ideal for compact spaces and high-precision, continuous operations, the VTS Series suits single-phase or three-phase working conditions, particularly in areas with height limitations. Applications include denture polishing, small metal processing, machine cleaning, and car interior cleaning.



Learn more

## Optional Configurations

- Stainless Steel Construction
- Vertical Structure
- Filter Bag
- Swivel Casters with Brakes
- Remote Control

## Technical Parameters

Model	VTS-75	VTS-150	VTS-220	VTS-300	VTS-400
Voltage (V / Hz)	380 / 50				
Power (kW) / (HP)	0.85 / 1.15	1.6 / 2.15	2.2 / 3.0	3.0 / 4.0	4.0 / 5.5
Starting current (A)	13	25	30	40	60
Rated current (A)	2.3	4.3	5.6	7.2	9
Max air flow (m³/h) / (CFM)	145 / 85	180 / 106	245 / 144	285 / 168	385 / 226
Max vacuum (mmH <sub>2</sub> O) / (kPa)	1600 / 15.7	2000 / 19.6	2000 / 19.6	2000 / 19.6	2100/20.6
Noise dB (A)	70±2	72±2	74±2	74±2	75±2
Dia. air inlet (mm) / (in)	Ø 40 / 1.6				
Filter area(m²)/ (sq.ft)	1.1 / 11.8				
Filter efficiency	>99%				
Capacity of collection barrel (L) / (gal)	35 / 9.25		70 / 18.50		
Dimensions【LxWxH】 (mm) / (in)	710*410*750 / 28*16.1*29.5		860*470*790 / 33.9*18.5*31.1		
Weight (kg) / (lb)	45 / 99		57 / 126	65 / 143	72 / 158

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.



## Explosion Protection Systems

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### 3.1 Inert Powder Feeder

Designed to prevent explosions by dispersing inert powder into dust-prone environments, this system effectively reduces the risk of ignition by neutralizing combustible particles. Ideal for industries handling highly reactive or flammable materials.

### 3.2 Explosion Venting Devices

Engineered to protect equipment and facilities by safely releasing pressure during an explosion. These devices minimize damage by directing explosive force away from critical areas, ensuring compliance with safety standards in hazardous environments.

### 3.3 Explosion Isolation Valves

Specially crafted to prevent explosion propagation through ductwork or pipelines. These valves isolate hazardous zones by automatically sealing upon detecting an explosion, providing a critical barrier against secondary explosions.

### 3.4 Spark Detection and Extinguishing Systems

Highly sensitive and responsive systems that detect and extinguish sparks in milliseconds. Essential for preventing ignition in combustible dust environments, they enhance operational safety by addressing fire risks at the source.

### 3.5 Explosion Suppression System

A rapid-response solution that detects and suppresses explosions in milliseconds. Utilizing advanced sensors and extinguishing agents, this system minimizes explosion impact, ensuring the safety of personnel and equipment in high-risk environments.



# VL-PFQ

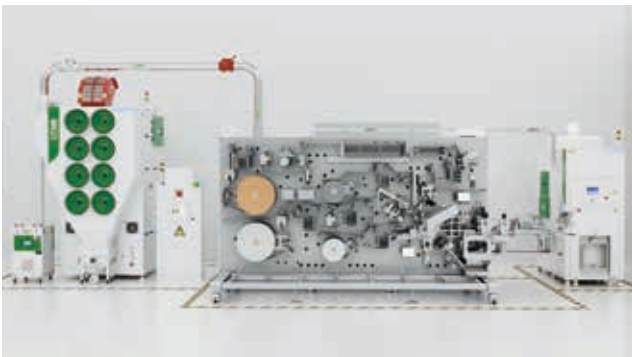
## Inert Powder Feeder

### Working Principle

- By introducing inert powder into the dust collector to reduce or eliminate the concentration of oxygen. This prevents the formation of a combustible mixture between the flammable dust and oxygen, rendering any potential ignition source incapable of triggering an explosion.

### Advantages & Features

- Real-time inert powder weight monitoring and automatic adjustment.
- Material level sensor for automatic alarms and powder shortage prevention.
- Safe powder feeding screw with a detection switch.
- Adjustable powder output based on customer needs.
- Internal powder barrel stirring to prevent clumping or bridging.



Learn more

### Applications

- Calendering
- Notching
- Stacking
- Winding
- Tab Welding
- Aluminum Case Welding

### Technical Parameters

Model	VL-PFQ-30L-6TP	VL-PFQ-30L-6TP(Simple)	VL-PFQ-30L-6	VL-PFQ-30L-6(Signal)
Voltage (V / Hz)	220/50			
Power (W) / (HP)	25	25	120	120
Maximum powder output (g/h)	2000			
Powder way	Screw conveying	Screw conveying	Twin screw conveying	Twin screw conveying
Maximum powder storage capacity (kg)	25			
Powder method	Artificial powder			
Outlet diameter (mm)/(in)	Φ32 / 1.26 (customized)			
Mobility	Swivel caster with brake			
Dimension【LxWxH】 (mm)/(in)	645*532*1043 / 25.4*20.9*41.1			

\*The mentioned values of airflow and the pressure may vary slightly with change in air inlet size. It is normal that the current value may fluctuate in a small range voltage and frequency will affect the current value.

# Flameless Vents

## Working Principle

- The Flameless Explosion Venting comprises a venting device integrated with a flame arrester. It provides an explosion protection solution for process vessels located indoors or in areas where standard explosion venting is not safely feasible.

In the event of an explosion, the venting device opens to release the explosion pressure and flame, which are then directed through the flame arrester. This process effectively cools the hot gases and extinguishes the flame.

## Advantages & Features

- Work for both open & enclosed spaces
- High venting efficiency
- Prevents flame & pressure discharge
- Reduces post-explosion fire risk

## Applicable Dust

- St3 metallic dust with inert powder
- Non-metallic dust



Learn more

## Optional Accessories

- Back Pressure Supports
- Explosion Vent Detectors

## Technical Parameters

Model	Sector-shaped	Cylinder-shaped
Static cracking pressure	Relevant to the selection of pressure relief components, standard static cracking pressure pstat of this product =0.01MPa±25%	
Maximum relief pressure	pred,max≤0.0451MPa	
Pressure relief efficiency	66%	91%
Flameless performance	No Mars or Flames	
Re-usability	Not reusable	
Installation location	No combustibles within 4 meters of the vicinity, restricted access, with warning signs	
Applicable technology	Oxygen content is not higher than that in air (21%); working pressure is not higher than one atmospheric pressure (0.1 MPa)	
Applicable dust	Category: Non-metallic Dust for Air Supply in Combustion	
	Maximum explosion pressure: pmax < 0.73 MPa	
	Explosion index: KSt < 28.77MPa.m/s	
	Explosion grade: <St2	
Optional accessories	Back pressure support device, explosion relief detector	
Consumables	Blasting Plate ( venting rupture disc)	
Product execution standards	GB/T15605 Dust explosion pressure relief guide, EN16009 Flameless explosion venting devices	
Test report	Pass the certification of the third party authority in China	



# Rupture Discs

## Working Principle

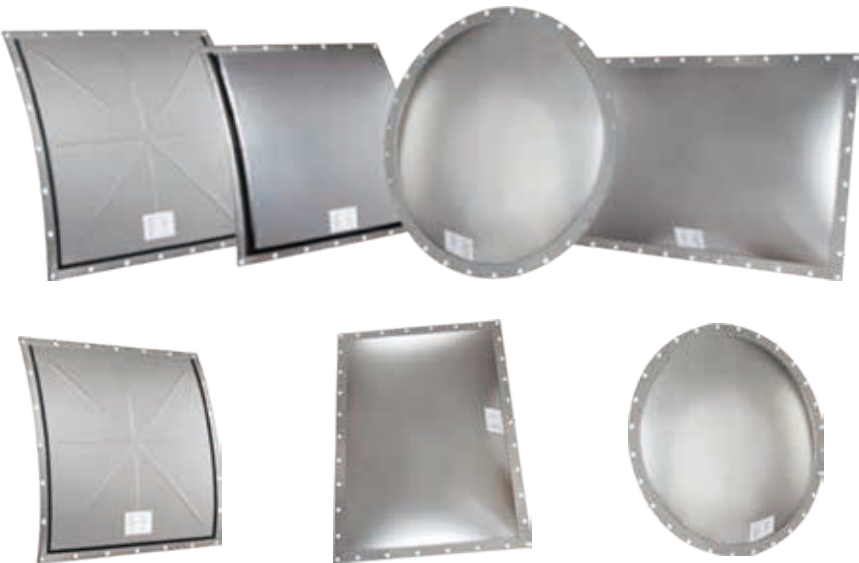
- Often the most cost-effective explosion protection methods, explosion venting panels relieve a deflagration’s pressure and flames from the vessel in order to keep its total pressure below its design pressure.

## Advantages & Features

- Cost-effective
- 100% venting efficiency
- Easy installation

## Applicable Dust

- Organic and metallic dust St3



Learn more



## Technical Parameters

Rectangle Venting		Round Venting	
Dimensions (mm)	Effective pressure relief area (m²)	Dimensions (mm)	Effective pressure relief area (m²)
310*240	0.074	DN200	0.0314
410*240	0.098	DN250	0.0491
410*310	0.127	DN300	0.0707
410*410	0.168	DN350	0.0962
580*410	0.238	DN400	0.1256
910*410	0.373	DN450	0.159
690*690	0.476	DN500	0.1963
910*580	0.528	DN550	0.2375
840*840	0.706	DN650	0.3317
1090*690	0.752	DN700	0.3847
910*910	0.828	DN750	0.4416
1245*910	1.133	DN800	0.5024
		DN850	0.5672
		DN900	0.6359

# Explosion Isolation Flap Valve

## Working Principle

- A passive mechanical in-duct isolation valve used in pipelines containing combustible dust.
- In the event of an explosion, the valve swiftly closes with a millisecond response speed, rapidly isolating the explosion.
- This prevents the propagation of dust explosions from downstream pipelines to upstream pipelines, effectively mitigating the risk of "secondary explosions" or "multiple explosions."

## Advantages & Features

- Cost-effective & reliable explosion protection
- Easy installation & maintenance
- No electronic detection systems required

## Applicable Dust

- Non-metallic
- Metallic dust (St1)



Learn more



## Technical Parameters

Item	Parameter			
Specification	DN100~DN300	DN350~DN600	DN650~DN1000	
Pressure loss @20m/s	260Pa	350Pa	400Pa	
pred,max	0.05MPa	0.04 MPa	0.03 MPa	
Installation Distance	2~7m	3~7.5m	5.5~8.5m	4.5~8.5m
Dust species	Non metallic dust:St1 and St2			Non metallic dust:St1
	Metallic dust:St1			/
	No corrosiveness, no viscosity, no friction.			
Applicable technology	Negative pressure technology;			
	Working pressure not higher than one atmospheric pressure (0.1MPa);			
	Oxygen content is not higher than that in air (21%).			
Reusability	Not reusable			
Product standard	EN 16447-2014 Explosion isolation flap valves			
Test Report	Certified by the third-party authority in China			



# Explosion Isolation Pinch Valve

## Working Principle

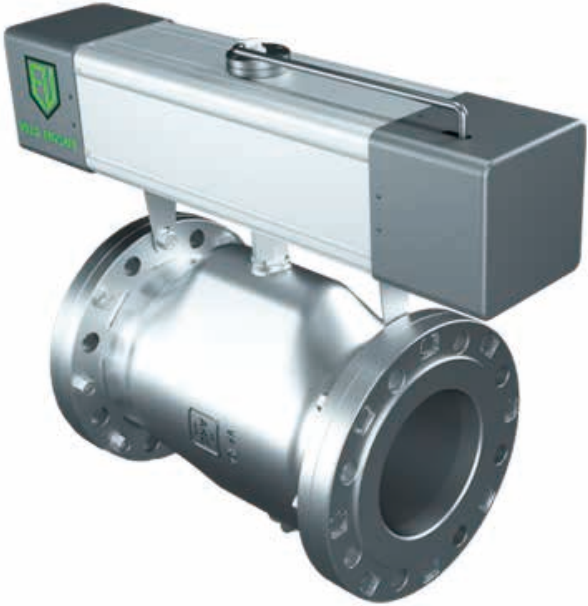
- An active mechanical isolation protection device that collaborates with a control panel and explosion detector. It employs a rugged elastomer sleeve and compressed air to rapidly pinch the device into full closure within milliseconds of detection, protecting downstream equipment from flames and pressure.

## Advantages & Features

- Bi-directionally isolates explosions in the process flow.
- Super fast Interception Valve.
- Designed to prevent explosion propagation.
- Quick reset after activation, avoid downtime.
- No refurbishment needed.

## Applicable Dust

- Non-metallic St1 & St2



Learn more



## Technical Parameters

Model	EVPV
Specification	DN150
Pred, max	<0.1465MPa
Dust type	St1 and St2 non-metallic dust Combustion requires dust supplied by air, non-corrosive, non-sticky and non-frictional
Installation distance	8m≤L≤20m
Applicable process	Positive pressure or negative pressure process; working pressure is not higher than one atmosphere (0.1MPa); The oxygen content is no higher than the oxygen content in the air (21%);
Reusability	Reusable
Product performance standards	EN 15089-2014 Explosion isolation systems
Installation method	Unrestricted

# Spark Detection and Extinguishing Systems

## Working Principle

- Consisting of spark detectors, a control panel and an automatic extinguishing unit, the Water Based Suppression System are designed to protect industrial processes by detecting sparks within process equipment or pipelines and extinguishing them with water spray nozzles within milliseconds of detection, without interrupting process operations, thereby eliminating potential fire and explosion hazards.

## Advantages & Features

- Typical sensitivity: Detects 1mm sparks at a 1-meter distance.
- Immediate response time: Overall system <300 μs, spark probe <1 ms.
- Wide detection angle: 120°Compatible with short tubes.
- Visible monitoring for operational clarity.
- Easy installation and user-friendly operation.
- Quick reset after activation for minimal downtime.

## Applicable Dust

- Non-metallic St1 & St2



Learn more

## Technical Parameters

Item	Parameters and Description
Operating Voltage	AC 220V, 50Hz
DC power module	Input voltage: AC 220V; Output voltage: DC 24V
7-inch touch screen	MGGC-TPC7072S
MCU module	ST, STM32F407
Spark monitoring area	For spark monitoring (primary monitoring), connect 2 detectors
Spark recheck area (optional, SK-EM4211 includes this function, SK-EM2211 does not include this function)	For spark recheck (secondary monitoring), connect 2 detectors
Ambient temperature	(-17~48) °C
Dimension	500*400*310 (mm)
Weight	20kg
Explosion-proof grade	ExdeIIBT6Gb; ExtDA21IP65T180°C
Anticorrosion grade	WF1
Shell material	Cast aluminum



Technical Parameters

Item	Parameters and Description
Manufacturer	VILLO ENVSAFE
Trademark/Model	Spark Guard/ SG - DA
Operating Voltage	DC 24V
Spectral response range	(800~1700) nm
Peak spectrum	1550nm
Sensor effective sensing area	Φ1mm
Maximum detectable spark speed range	30 m/s
General Sensitivity	At a distance of 1m, 1mm sparks can be detected
Detection angle	120°cone angle
Response time	< 1 ms
Dimension	115*90*58 (mm)
Detection method	Infrared and temperature
Range of application	Equipment and ducts
Operating temperature	(-20~60)°C
Relative humidity	0~95%
Housing material/protection level	Aluminum cast housing /IP 65
Way to control	Local and Remote Control: Touch Screen (Human Machine Interface)
Self-check function	The probe has a built-in self-test function. A calibrated LED light is designed inside the probe, which can emit a certain amount of infrared energy in a very short time to simulate the existence of sparks.

Technical Parameters

Item	Parameters and Description
Operating Voltage	24 V DC
Operating temperature	(2~60)°C
Effective water spray response time	About 300 ms
Filter ball valve	Working pressure: 1.6MPa
	Working temperature: (0~120)
	Interface: G3/4
Pressure Sensor	Range: 0~1MPa
	Operating Voltage:11~28VDC
	output signal: 4~20mA,
	interface: G1/4
	Electrical interface: M20X1.5 internal thread
	Explosion-proof grade: Exd II CT6 Gb\IP65
Solenoid valve	Power: (1) ordinary type: 28W; (2) explosion-proof type: 60W
	Input voltage: 24 V DC
	Pressure resistance: 1.6Mpa
	Interface: 6 points female thread joint G3/4,
	Electrical interface: M20X1.5 internal thread
	Explosion-proof grade: Exd II BT4 Gb
Flow pressure switch	Trigger pressure: 1Bar
	Working pressure: 1.7MPa; interface: G1/4
	Electrical interface: M20x1.5 internal thread
	Explosion-proof grade: Exde II CT6 \IP65
sprinkler	With anti-clogging design function.
	Spray shape: hollow cone
	Water spray angle: 120°
	Interface: G3/4

# Explosion Suppression System with Extinguishing Agent

## Working Principle

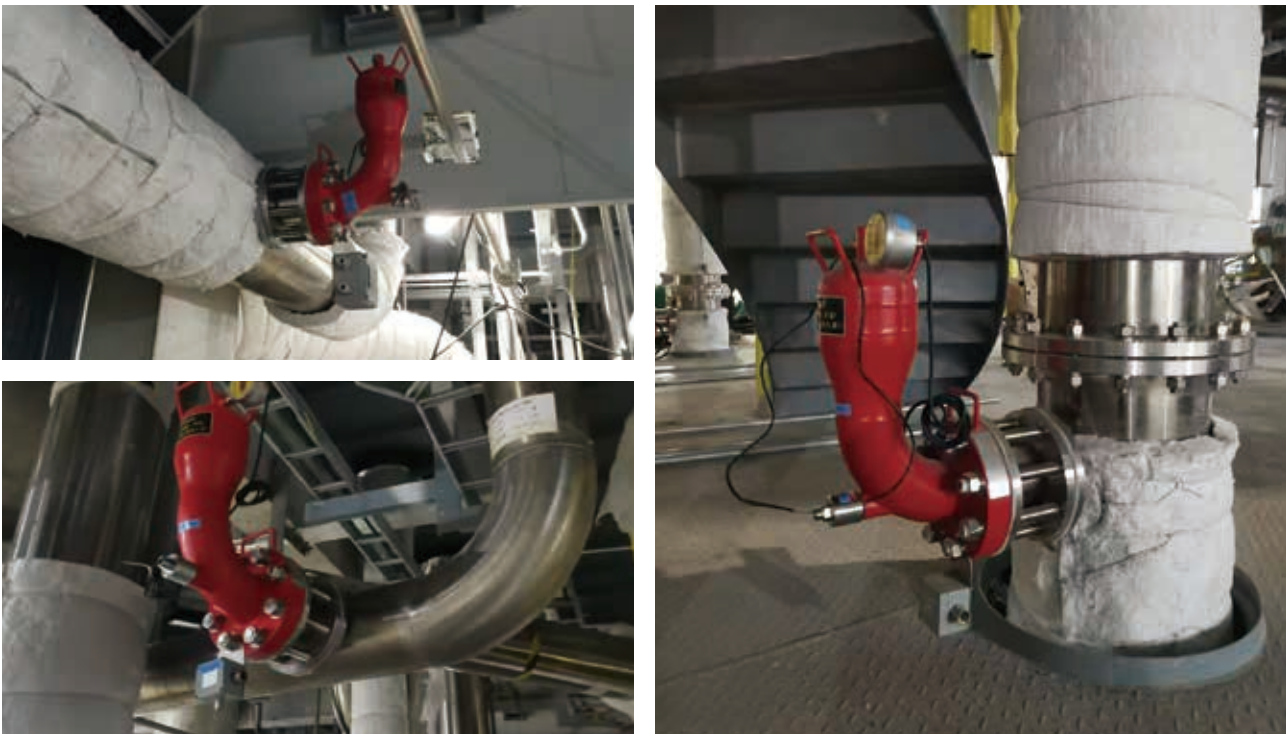
- Consisting of three components: detector(s); control unit; and chemical agent suppressor(s), the Chemical Agent Suppression Systems rapidly detect and intervene in the early stages of a combustion reaction, injecting a chemical suppressant in to the process within milliseconds. This swift response effectively prevents the escalation of pressure and flames, averting a catastrophic event.

## Advantages & Features

- Low risk for flame propagation into connected ducts.
- Preventing post-explosion fires.
- Minimal damage to both indoor and outdoor equipment.
- Ensuring maximum personnel safety during explosions.
- Applicability for harmful/toxic products.
- Approval and adoption by the pharmaceutical and food sectors.
- Reusable, fast reset and fast resuming of production process

## Applicable Dust

- Non-metallic St1 & St2



Learn more

## Technical Parameters

Model	EVES
Specification	5L
Pred, max	<0.1MPa
Dust type	St1 and St2 non-metallic dust Combustible dust requiring air supply, non-corrosive, non-viscous, non-abrasive
Installation distance	When DN ≤ 600mm, installation distance 4m ≤ L ≤ 7m, extinguishing distance 3m; When 600 < DN ≤ 1000, installation distance 6.5m ≤ L ≤ 9.5m, extinguishing distance 5.5m
Applicable pipe specifications	DN ≤ 600 (single tank) 600 < DN ≤ 1000 and below (dual tanks)
Applicable processes	Positive or negative pressure processes Working pressure not exceeding 1 atmosphere (0.1 MPa) Oxygen content not exceeding the oxygen content in air (21%)
Reusability	Requires replacement of the explosion suppression tank after activation
Product performance standards	EN 15089-2014 Explosion isolation systems
Installation method	Vertical installation





Siemens Inverter



Siemens PLC



Soft Starter



Rotary Discharge Valve



Pneumatic Gate Valve



Flexible Suction Arm



Motor for Filter Cleaning



Spark Trap



Wall Valve



Carbon Brush Motor



Turbine Motor



Schneider Switch Control Box

φ40mm



φ50mm



Suction Nozzle

Diameter: φ40mm/φ50mm  
Material: φ40mm—Plastic  
                  φ50mm—Aluminum

Short



Long



Hose Connector

Diameter: φ40mm  
Material: Plastic



Water Brush

Diameter: φ40mm/φ50mm  
Material: Aluminum



Brush

Diameter: φ40mm/φ50mm  
Material: Aluminum



Round Brush

Diameter: φ40mm  
Material: Plastic



Bend Pipe

Diameter: φ40mm/φ50mm  
Material: Aluminum



Double Bend Pipe

Diameter: φ50mm  
Material: Aluminum



Hose

Diameter: φ40mm/φ50mm  
Material: PVC



Collection Bag



Differential Pressure Transmitter



Differential Pressure Switch



Solenoid Valve



Tuning Fork Level Switch



Multi-color Signal Tower



Pressure Gauge



Air Speed Sensor



Dust Concentration Detector



Temperature Sensor



Differential Pressure Gauge



Pressure Gauge



Siemens PLC Touch Screen



Filter Cartridge



HEPA Panel Filter



Filter Bag