

INDUSTRIAL DUST COLLECTOR

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Introduction

Villo provides wide range of cartridge type dust collectors that are efficient and cost effective. These dust collectors are engineered to remove a wide range of dust and airborne particles that can effect production environment.



VJ-H Series

Manual Cleaning Type
Industrial Dust Collector



• Product Description

VJ-H Series is a simple industrial dust collector with large air volume, stable and reliable mechanical structure, small footprint, and flexible movement.

• Features

- Horizontal filter installation mechanism can reduce the height of machine, and can be very suitable for space limited working conditions. The material of filter cartridge can be water-oil resistant, polyester or other type depending upon the customer needs.
- Patented manual filter cleaning is used (Patent No. 201220489001.3). At the back side of the machine, there is a rotary handle to clean the accumulated dust on the filter. It is convenient and cost saving.
- To keep the machine running safely and conveniently, the machine is equipped with a simple type magnetic switch, which has the thermal overload protection function. Also, it can achieve remote control function according to customer's requirement.



• Applications

Lithium battery slitting machine, composite material cutting machine, CNC machine, PCB V-CUT machine, vertical sawing machine for wood or metal processing applications, etc.



• Optional Configurations

- › Multi tower light
- › Stainless steel version
- › Explosion proof version
- › Activated carbon filter
- › Converter
- › Enlarged capacity of dust collection bin
- › Additional H13/H14 filter



• 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)	3.4	4.8	6.4
Max air flow (m ³ /h) / (CFM)	1500 / 883	2200 / 1295	3000 / 1765
Max air pressure (Pa) / (mmH ₂ O)	1800 / 184	2500 / 255	2500 / 255
Air Inlet Dia. (mm) / (in)	Ø 150 / 6		
Noise dB (A)	73±2	75±2	77±2
Filter area (m ²) / (sq.ft)	8 / 86		
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)	653*700*1300 / 25.7*27.6*51.2	653*700*1300 / 25.7*27.6*51.2	653*700*1362 / 25.7*27.6*53.6
Weight (kg) / (lb)	130 / 287	140 / 309	190 / 419

*Note: 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 Series

Air Pulse Jet Dust Collector



• Features

- Compact design allows placement flexibility and saves floor space.
- The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.
- Real-time monitoring of machine pressure changes can quickly detect whether the filter needs to be cleaned.



• Applications

A self-cleaning dust collector for continuous applications, where high collection efficiency is essential, such as grinding, sandblasting, mixing, packaging, vibrating screen, crushing, etc.



• Product Description

VJF series is an industrial dust collector with multi-motor power, large air volume, pulse jet filter cleaning, stability and reliability. It can meet the dust removal needs of multiple industries and wide range of processes.

• Optional Configurations

- › Dust container
- › Stainless steel version
- › Explosion proof version
- › Activated carbon filter
- › Converter
- › Additional H13/H14 filter
- › Air speed sensor
- › Temperature sensor
- › Dust concentration detector
- › Moderate pressure motor



• 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)	3.4	4.8	6.4	8.2	11	14.5	21.5	29.5
Max air flow (m ³ /h) / (CFM)	1500/882	2200/1294	3000/1765	4000/2353	5500/3235	7500/4412	9000/5294	12000/7059
Max air pressure (Pa) / (mmH ₂ O)	1800/184	2500/255	2500/255	2500/255	2500/255	2600/265	2700/275	2800/286
Filter area (m ²) / (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)	71±2	73±2	74±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		1100*925*2050 / 43.3*36.4*80.7		1325*955*2040 / 52.2*37.6*80.3	
Weight (kg) / (lb)	180 / 397	260 / 574	280 / 618	340 / 750	360 / 794	600 / 1823	810 / 1786	830 / 1830

*Note: 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 Series

Industrial Explosion Proof
Dust Collector



• Product Description

VJFB series industrial dust collector has the characteristics of explosion-proof, large air volume, pulse jet cleaning, stable and reliable structure.

• Features

- Compact design allows placement flexibility and saves floor space.
- Safety explosion venting membrane.
- Explosion proof motor and electrical control cabinet guarantees the safe running of the machine.
- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.
- Vertical filter cartridge installation mechanism.
- Differential pressure gauge



• Applications

Specialized for collecting wide range of inflammable and explosive dust. It is suitable for powder metallurgy, aluminum powder grinding, grain processing, food production, high polymer plastics industry, synthetic dyes and coatings, pesticide and pharmaceutical manufacturing, plant fiber textile technology and so on.



• Optional Configurations

- › Flameless quench device
- › Explosion isolation valve
- › Dust container
- › Stainless steel version
- › Activated carbon filter
- › Converter
- › Additional H13/H14 filter
- › Air speed sensor
- › Temperature sensor
- › Dust concentration detector



• 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)	3.4	4.8	6.4	8.2	11	14.5	21.5	29.5
Max air flow (m³/h) / (CFM)	1500 / 882	2200 / 1294	3000 / 1765	4000 / 2353	5500 / 3235	7500 / 4412	9000 / 5294	12000 / 7059
Max air pressure (Pa) / (mmHg)	1800 / 184	2500 / 255	2500 / 255	2500 / 255	2500 / 255	2600 / 265	2700 / 275	2800 / 286
Filter area (m²) / (sq.ft)	11 / 118.5	22 / 137	22 / 137	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)	100 / 26.4 (2pcs)	100 / 26.4 (2pcs)
Noise dB (A)	71±2	73±2	74±2	76±2	78±2	79±2	80±2	81±2
Anti-explosive level	ExdIIBT4							
Filter cleaning method	Pulse jet							
Air inlet Dia. (mm) / (in)	Ø150 / 6	Ø200 / 8	Ø250 / 10	Ø300 / 12	Ø350 / 14	Ø400 / 16	Ø450 / 18	Ø500 / 20
Dimensions [LxWxH] (mm) / (in)	790*605*1730 / 31.1*23.8*68.1	1000*700*1900 / 39.4*29.6*74.8	1060*910*2095 / 41.8*35.9*82.5	1180*1010*2190 / 46.5*39.8*86.2	1350*900*1985 / 53.1*35.4*78.1	1350*1250*2175 / 53.1*49.2*85.6	1350*1250*2175 / 53.1*49.2*85.6	1350*1250*2175 / 53.1*49.2*85.6
Weight (kg) / (lb)	190 / 419	270 / 596	300 / 662	360 / 794	380 / 838	630 / 1389	840 / 1852	870 / 1918

*Note: 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 Series

Industrial Auto Discharge
Dust Collector



• Product Description

VJFX series industrial dust collector is equipped with automatic discharge system. This dust collector have features of large air volume, self-cleaning function, automatic discharge, stable and small footprint.

• Features

- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.
- PTFE coated filter cartridge
The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- Rotary discharge valve
Equipped with rotary discharge valve for automatic dust unloading.



• Applications

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



• Optional Configurations

- › Pressure indication light
- › Stainless steel version
- › Explosion proof version
- › Activated carbon filter
- › Converter
- › Additional H13/H14 filter
- › Customizable collection box
- › Tank level alarm
- › Gate valve
- › Air speed sensor
- › Temperature sensor
- › 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)	3.4	4.8	6.4	8.2	11	14.5	21.5	29.5
Max air flow (m³/h) / (CFM)	1500 / 883	2200 / 1295	3000 / 1765	4000 / 2354	5500 / 3237	7500 / 4414	9000 / 5294	12000 / 7059
Max air pressure (Pa) / (mmH ₂ O)	1800 / 184	2500 / 255	2500 / 255	2500 / 255	2500 / 255	2600 / 265	2700 / 275	2800 / 286
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)	71±2	73±2	74±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	144 / 38.0	144 / 38.0	192 / 50.7	192 / 50.7	192 / 50.7
Air inlet Dia. (mm) / (in)	Ø150 / 6	Ø200 / 8	Ø200 / 8	Ø250 / 10	Ø300 / 12	Ø350 / 14	Ø350 / 14	Ø350 / 14
Dimensions [LxWxH] (mm) / (in)	1100*1040*2450 / 43.3*41.0*96.5	1100*1040*2750 / 43.3*41.0*108.3	1100*1040*2850 / 43.3*41.0*112.2	1200*1200*2950 / 47.3*47.3*116.2	1200*1200*3050 / 47.3*47.3*120.1	1765*1280*3200 / 69.5*50.4*126.0	1765*1680*3350 / 69.5*50.4*131.9	1765*1680*3500 / 69.5*50.4*137.8
Weight (kg) / (lb)	230 / 507	300 / 661	400 / 882	500 / 1102	550 / 1213	600 / 1323	700	750

*Note: 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

VJCF Series

High Negative Pressure Type
Central Vacuum System



• Product Description

VJCF Series is an industrial dust collector with high negative pressure, pulse jet cleaning, stable structure and small footprint.

• Features

- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.
- PTFE coated filter cartridge
The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- Vertical installation would protect the filter from dust accumulation, which would ultimately increase the filter life, reduce gasket leaks, and result in better pulse cleaning.
- Spoiler installed at the air inlet let the dust particles to fall directly in to the dust collector. This avoids to install an additional cyclone separator.



• Applications

Ideal for PCB processing industry with processes such as, multi-axis drilling, grinding board, chamfering, cutting, central cleaning for workshop, etc.



• Optional Configurations

- › Multi tower light
- › Stainless steel version
- › Explosion proof version
- › Activated carbon filter
- › Converter
- › Enlarged capacity of dust bin
- › Central control system with variable frequency and constant pressure
- › Additional H13/H14 filter
- › Air speed sensor
- › Temperature sensor
- › Dust concentration detector



• 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 (mmH₂O) / (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)	370 / 815	470 / 1036	500 / 1102	530 / 1169	600 / 1323	625 / 1378	650 / 1433

*Note: 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



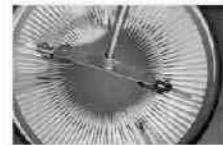
VX Series

Cabinet Type High Pressure Dust Collector



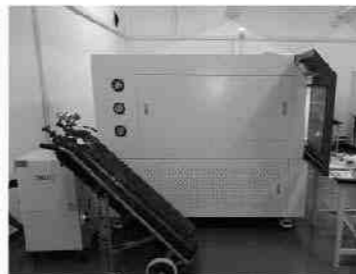
• Features

- Equipped with manual filter cleaning device for easy filter cleaning. Can be changed to Self-cleaning type upon the customer's requirement.
- Maintenance free powerful turbine motor which can work continuously for 24 hours.



• Applications

A manual cleaning dust collector with high negative pressure for continuous working applications such as metal working (grinding, cutting, drilling, sandblasting); PCB machining; battery manufacturing, etc.



• Product Description

VX series is an industrial dust collector with high negative pressure, stable design, small footprint and flexible movement.

• Optional Configurations

- Self-cleaning version
- Stainless steel version
- Enlarged collection bin
- Explosion proof version
- Converter
- Multi tower light
- Additional H13/H14 filter
- Air speed sensor
- Temperature sensor
- Dust concentration detector
- Differential pressure alarm



• Technical Parameters

Model	VX-150	VX-220	VX-300	VX-400	VX-550	VX-750
	VX-150F	VX-220F	VX-300F	VX-400F	VX-550F	VX-750F
Voltage (V / Hz)	380 / 50					
Starting current (A)	25	30	40	60	85	100
Rated current (A)	4.3	5.6	7.2	9	12.9	16.7
Power (kW) / (HP)	1.6 / 2.15	2.2 / 3.0	3.0 / 4.0	4.0 / 5.5	5.5 / 7.5	7.5 / 10.0
Max air flow (m³/h) / (CFM)	210 / 55	265 / 156	318 / 187	420 / 247	530 / 312	700 / 412
Max vacuum (mmH₂O) / (kPa)	2000 / 19.6	2350 / 23	2600 / 25.5	2600 / 25.5	3000 / 29.4	2700 / 26.5
Air inlet Dia. (mm) / (in)	Ø 50/2					
Filter efficiency	>99%					
VX series						
Filter area (m²) / (sq.ft)	1.8 / 19.4		3.5 / 37.7		3.5 / 37.7	
Capacity of collection barrel (L) / (gal)	22 / 5.8		26 / 6.9		30 / 7.9	
Dimensions【LxWxH】(mm) / (in)	530*540*1040 / 20.9*21.3*40.9		600*750*1250 / 23.6*29.5*49.2		760*680*1355 / 30.0*26.8*53.4 785*750*1365 / 31.0*29.6*53.8	
VX-F series						
Filter area (m²) / (sq.ft)	2 / 21.5		4.8 / 51.7		7.2 / 77.6	
Capacity of collection barrel (L) / (gal)	30 / 7.9		30 / 7.9		40 / 10.6	
Dimensions【LxWxH】(mm) / (in)	860*650*940 / 33.9*25.6*37.0		860*650*940 / 33.9*25.6*37.0		1050*780*1150 / 41.3*30.7*45.3	

*Note: 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 Series

Separator Built-in Type
Dust Collector



• Product Description

VN series is an industrial dust collector focusing on the laser cutting industry. It has the characteristics of large air volume, pulse jet cleaning, stable and reliable design.

• Features

- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.
- PTFE coated filter cartridge
The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- Easy installation of horizontal type filter, can reduce the time to replace the filter.
- Spoiler installed at the air inlet let the dust particles to fall directly in to the dust container. This avoids to install an additional cyclone separator.



• Applications

An effective solution for machine processes such as sheet metal laser cutting, grinding, sandblasting and other operations.



• Optional Configurations

- › Multi tower light
- › Stainless steel version
- › Explosion proof version
- › Activated carbon filter
- › Converter
- › Additional H13/H14 filter
- › Air speed sensor
- › Temperature sensor
- › Dust concentration detector
- › Customizable collection box
- › Tank level alarm



• 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)	11	14.5	21.5
Max air flow (m³/h) / (CFM)	4500 / 2650	6500 / 3825	8500 / 5000
Max air pressure (Pa) / (mmH₂O)	4500 / 459	4500 / 459	4500 / 459
Filter area (m²) / (sq.ft)	94 / 1012	141 / 1518	141 / 1518
Air inlet Dia. (mm) / (in)	Ø 250 / 10	Ø 250 / 10	Ø 300 / 12
Noise dB (A)	75±2	76±2	77±2
Filter efficiency	99%		
Filter cleaning method	Pulse jet		
Dimensions [LxWxH] (mm) / (in)	1290*1390*2285 / 50.8*54.7*90.0	1290*1390*2735 / 50.8*54.7*107.7	1495*1565*3060 / 58.9*61.7*120.5

*Note: 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 Series

High Negative Pressure
Explosion Proof Dust Collector



• Product Description

VJFCB Series is an explosion-proof industrial dust collector with high negative pressure, pulse jet cleaning, stable and small footprint. It meets the explosion-proof requirements for the flammable and explosive dust environment.

• Features

- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.
- The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- Safety explosion venting membrane: to absorb the explosion wave in case of accident.
- Explosion proof motor and electrical control box: guarantees the safe running of the machine. All of the electrical components are "Schneider" brand.



• Applications

An effective solution for machining processes such as laser welding, mixing, cutting, bagging, grinding, sand blasting, plexiglass processing, vibration screen, air conveying, packaging, etc.



• Optional Configurations

- Flameless quench device
- Explosion isolation valve
- Multi tower light
- Stainless steel version
- Activated carbon filter
- Converter
- Additional H13/H14 filter
- Air speed sensor
- Temperature sensor
- Dust concentration detector



• Technical Parameters

Model	VJFCB-1.5	VJFCB-2.2	VJFCB -3.0	VJFCB -4.0	VJFCB -5.5	VJFCB -7.5	VJFCB-11W	VJFCB-15W
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	30	40	60	85	100	120	150
Rated current (A)	4.3	5.6	7.2	9	12.9	16.7	28	35
Max air flow (m³/h) / (CFM)	210 / 123	265 / 156	318 / 187	420 / 247	530 / 312	700 / 412	1000 / 588.6	1320 / 776.9
Max air pressure (mmH₂O) / (kPa)	2000 / 19.6	2350 / 23.0	2700 / 26.5	2600 / 25.5	3000 / 29.4	2700 / 26.5	2350 / 23	2350 / 23
Filter efficiency	99%							
Filter area (m²) / (sq.ft)	11 / 118.5		22 / 237					
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	Ø 100 / 4	Ø 100 / 4
Dimensions【LxWxH】(mm) / (in)	750*680*1770 / 29.6*26.8*69.7	750*680*1800 / 29.6*26.8*70.9	750*680*1860 / 29.6*26.8*73.3	840*780*2010 / 33.1*30.7*79.2	970*900*1950 / 38.2*35.5*76.8	1040*900*2150 / 41.0*35.5*84.7	1980*1010*2100 / 78.0*39.8*82.7	1980*1010*2100 / 78.0*39.8*82.7
Anti-explosive level	ExdIIBT4							

*Note: 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 Series

Moderate High Pressure
Explosion Proof Dust Collector



• Product Description

VJFGB Series is an explosion-proof industrial dust collector with moderate high negative pressure, pulse jet cleaning, stable structure and small footprint. It meets the explosion-proof requirements in the environment with inflammable and explosive dust.

• Features

- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.
- The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- Spoiler installed at the air inlet let the dust particles to fall directly into the dust collector. This avoids to install an additional cyclone separator.
- Safety explosion venting membrane: to absorb the explosion shock wave in case of accident.
- Explosion proof motor and electrical control box: guarantees the safe running of the machine. All of the electrical components are "Schneider" brand.



• Applications

It is suitable for process such as mixing, cutting, bagging, grinding, sandblasting, plexiglass processing, vibrating screen, air transportation, packaging operation, etc.



• Optional Configurations

- Flameless quench device
- Explosion isolation valve
- Multi tower light
- Stainless steel version
- Activated carbon filter
- Converter
- Additional H13/H14 filter
- Air speed sensor
- Temperature sensor
- Dust Concentration Detector



• Technical Parameters

Model	VJFGB-1.5	VJFGB-2.2	VJFGB -3.7	VJFGB -5.5	VJFGB -7.5	VJFGB-11W	VJFGB-15W
Voltage (V / Hz)	380 / 50						
Power(kW) / (HP)	1.5 / 2.0	2.2 / 3.0	3.7 / 5.5	5.5 / 7.5	7.5 / 10	11 / 15	15 / 20
Starting current (A)	25	40	54	65	95	120	150
Rated current (A)	3.5	5	7.5	11.5	15.5	21.5	29.5
Max air flow (m³/h) / (CFM)	1200 / 706	1980 / 1165	2880 / 1694	3000 / 1765	3600 / 2118	3900 / 2294	5400 / 3176
Max air pressure (Pa) / (mmH ₂ O)	2000 / 204	2400 / 245	3800 / 387	4000 / 408	4000 / 408	5000 / 510	5000 / 510
Filter efficiency	99%						
Filter area (m²) / (sq.ft)	11 / 118.5	22 / 237	22 / 237	44 / 474	44 / 474	44 / 474	66 / 710
Filter cleaning method	Pulse jet						
Air inlet Dia. (mm) / (in)	Ø 100 / 4	Ø 150 / 6	Ø 200 / 8	Ø 200 / 8	Ø 200 / 8	Ø 250 / 10	Ø 250 / 10
Dimensions【LxWxH】(mm) / (in)	750*700*1750 / 29.5*27.6*68.9	900*800*1850 / 35.5*31.5*72.9	900*800*1850 / 35.5*31.5*72.9	1000*900*1950 / 39.4*35.5*76.8	1000*900*1950 / 39.4*35.5*76.8	2460*1405*2610 / 96.9*55.3*102.8	2730*1870*2890 / 107.5*73.7*113.8
Anti-explosive level	ExdIIBT4						

*Note: 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



VFO Series

Dust Collection System



• Product Description

VFO Series is a central dust collection system. It has the characteristics of large air volume, stable structure and convenient cartridge installation and ejection mechanism. It is suitable to deal with the production and processing of a large amount of dust.

• Features

- Modular combination structure
Only requires a small changes to the original equipment and piping systems, modular dust collector unit can achieve rapid expansion to increase productivity and expand production scale, reduce expansion cost.
- Easy installation & ejection of declined insertion type filter, can reduce the time to replace the filter.
- The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.



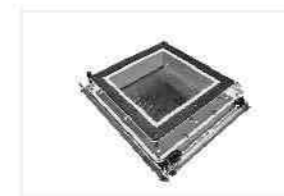
• Applications

Suitable for wood working, grinding, cutting, feeding and other applications with a large amount of dust in other multi-site centralized dust conditions.



• Optional Configurations

- › Multi tower light
- › Stainless steel version
- › Explosion proof version
- › Activated carbon filter
- › Converter
- › Additional H13/H14 filter
- › Air speed sensor
- › Temperature sensor
- › Dust concentration detector
- › Customizable collection box
- › Tank level alarm
- › Gate valve
- › Central control system with variable frequency and constant pressure



• 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 cartridge quantity (pcs)	12	24	36	48	60	72
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 (3pcs)	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.

*Note: The mentioned values of Airflow and the Pressure may vary slightly with change in air inlet size.

VH- Z Series

Large Air Flow Type Central Dust Collector



• Features

- Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the working requirements.
- The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- Vertical installation would protect the filter from dust accumulation, which would ultimately increase the filter life, reduce gasket leaks, and result in better pulse cleaning.



• Applications

Suitable for capacitance spray operations, tin packaging operations, CCL operations, spraying production line operations, ceramic raw embryo processing, polishing workshop, welding smoke purification and other multi-site centralized dust conditions.



• Optional Configurations

- › Multi tower light
- › Stainless steel version
- › Explosion proof version
- › Activated carbon filter
- › Converter
- › Additional H13/H14 filter
- › Air speed sensor
- › Temperature sensor
- › Dust concentration detector
- › Customizable collection box
- › Tank level alarm
- › Gate valve
- › Central control system with variable frequency and constant pressure



• 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.						

*Note: The mentioned values of Airflow and the Pressure may vary slightly with change in air inlet size.

VH/VHX Series

Multiple Filtration Type
Fume Extractor



• Product Description

VH series are high efficiency fume extractors with multiple filtration system; very ideal for the air purification of smoke and fumes in laser and related processing.

VHX series are highly efficient welding fume extractors with 3-stage filter system; very ideal for the fume and dust extraction in the soldering process of the circuit boards and electronic industry.

• Applications

VH Series: Low power laser welding, cutting, engraving and other laser processing in the auto industry, industrial automation, etc.

VHX Series: Welding (manual arc welding; gas shielded arc welding; argon arc welding, etc.) cutting, grinding, and other smoke purification applications.

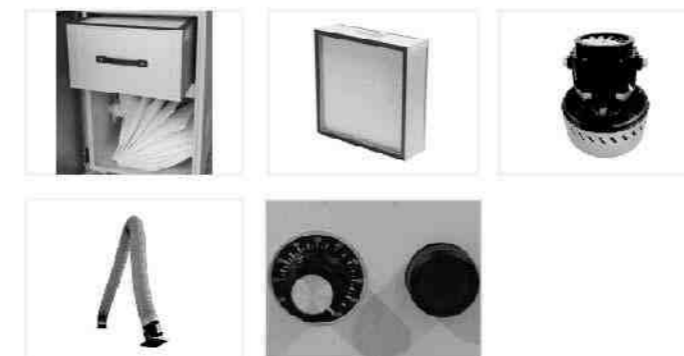


• Optional Configurations

- > Stainless steel version
- > Multi tower light
- > Explosion-proof version
- > Upgrade to Siemens motor
- > Swivel casters with brake
- > HEPA filter
- > Filter cartridge version

• Features

- Filtration efficiency is 99.97%-99.99% at 0.3 microns with multiple filtration system.
- Large airflow, simple structure, economic space occupation, cost-saving and reliable.
- The brushless motor and excellent metal plate technology ensures long-lasting durability.
- Compact structure product including convenient 360 degree rotation suction arm for desirable positioning.
- The product uses the PWM controller, the air volume is variable, and it is practical, convenient and energy-saving.



• 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)	200 / 118			257 / 152	600 / 353
Max air pressure (Pa) / (mmH₂O)	2500 / 255	3200 / 326	3200 / 326	3500 / 357	7000 / 714
Noise dB (A)	60±2			60±2	67±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	550*700*1300 / 21.6*27.5*51.2
Weight (kg) / (lb)	20 / 44	20 / 44	22 / 48.5	65 / 143	85 / 187

*Note: 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-T/VHT Series

Filter Cartridge Type
Fume Extractor



• Optional Configurations

- › Stainless steel version
- › Multi tower light
- › Explosion-proof version
- › Odor removal version
- › Manual/ Self filter-cleaning version
- › Swivel casters with brake

• Product Description

VH-T series are highly efficient welding fume extractors with self-cleaning system, very ideal for the fume and dust disposal in the welding workshop or other similar working conditions.

VHT Series are also high efficiency welding fume extractors that are equipped with high efficiency filter cartridge. They are ideal for the fume and dust disposal in the soldering process of the circuit boards and electronic industry.

• Applications

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

VHT: Smoke purification in single phase voltage working conditions. Such as the soldering, wave soldering, laser welding, sculpture, etc.



• Features

- The filter material is polyester with PTFE coated, which can filter 99.9% dust at 0.3 microns.
- The compact and portable product including a convenient 360-degree rotation suction arm for desirable positioning.
- VH-T: Pulse jet cleaning method for the filter makes machine to work continuously. User can set the pulse frequency depending upon the requirements.
- VH-T: Siemens motor and excellent metal plate technology ensures long-lasting durability.
- VHT: The high quality brushless motor and excellent metal plate technology ensures long-lasting durability.



• 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	3.4	4.8
Max air flow (m³/h) / (CFM)	220 / 129.4	1500 / 882	2200 / 1294
Max air pressure (Pa) / (mmH ₂ O)	3200 / 326	1780 / 182	2000 / 204
Noise dB (A)	63±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)	1.8 / 19.4	10.0 / 12.0	15.0 / 18.0
Filter efficiency	>99%	>99%	
Dimensions【LxWxH】(mm) / (in)	320*300*520 / 12.6*11.8*20.5	700*750*1400 / 27.6*29.5*55.1	700*750*1600 / 27.6*29.5*63.0
Weight (kg) / (lb)	23 / 50.7	150 / 331	210 / 463

*Note: 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



VH-T

