

# INDUSTRIAL VACUUM CLEANER

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### Introduction

Villo's series of industrial vacuum cleaners cover the needs and applications for broad range of industries. They are powerful, compact and capable of vacuuming diverse range of substances and dust media for continuous operations.



# VTs Series




Basic Compact & Economical Vacuum Cleaner

## • Product Description

VTs series are Single Phase or Three Phase Vacuum Cleaners with high pressure; very ideal for small space, high precision and continuous applications.



## • Applications

-  Suitable for single phase or three phase working conditions.
-  Suitable for the working applications that require continuous work and have height limitations.
-  Denture Polishing, Small Metal Processing, Machine Cleaning, Car Interior Cleaning, etc.

## • 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	210 / 55	265 / 156	318 / 187	420 / 247
Max vacuum (mmH <sub>2</sub> O) / (kPa)	1600 / 15.7	2000 / 19.6	2350 / 23	2600 / 25.5	2600 / 25.5
Noise dB (A)	65±2	70±2	72±2	72±2	76±2
Air inlet Dia. (mm) / (in)	Ø 40 / 1.6				
Filter area (m²) / (sq.ft)	1.1 / 11.8				
Filter efficiency	>99%				
Capacity of collection barrel (L) / (gal)	3.5 / 9.25		70 / 18.50		
Dimensions【LxWxH】(mm) / (in)	710*410*700 / 28*16.2*27.6		860*470*730 / 33.9*18.5*28.8		
Weight (kg) / (lb)	45 / 99		57 / 126	65 / 144	69 / 152

\*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.

## • Features

- Compact and simple
- Customizable voltage  
Power less than or equal to 2.2 kilowatts can be made into single phase.
- Equipped with filter cleaning device for easy filter cleaning.
- Maintenance free powerful turbine motor can work continuously for 24 hours.
- Pressure gauge to detect filter clogging.



## • Optional Configurations

- Filter bag
- Swivel Casters with Brakes
- Vertical Structure for Better Mobility  
—— VTF Series
- Stainless Steel Version  
—— VTDF Series





# VS Series




Wet & Dry Vacuum Cleaner

## • Product Description

VS series are Three Phase Industrial Vacuum Cleaners with high pressure; very ideal for high precision Wet & Dry general cleaning applications.



## • Applications

-  Suitable for continuous working conditions.
-  Suitable for wet and dry dust vacuum cleaning.
-  General cleaning, etc.

## • 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 (m <sup>3</sup> /h) / (CFM)	265 / 156	420 / 247
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2350 / 23	2600 / 25.5
Noise dB (A)	72±2	75±2
Air inlet Dia. (mm) / (in)	Ø 40 / 1.6	
Filter area (m <sup>2</sup> ) / (sq.ft)	1.5 / 16.2	
Filter efficiency	>99%	
Capacity of collection barrel (L) / (gal)	80 / 21.1	
Dimensions【LxWxH】(mm) / (in)	1200*570*950 / 47.3*22.5*37.4	
Weight (kg) / (lb)	70 / 155	80 / 176

\*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



## Features

- Compact and mobile structure.
- Two filter bags option to meet wet or dry applications.
- Customizable voltage  
Power less than or equal to 2.2 kilowatts can be made into single phase
- Discharge hose for liquids.
- Pressure gauge to detect filter clogging.



## • Optional Configurations

- > Stainless steel version
- > Filter cartridge type
- > Remote Control

# V3 Series




Single Phase Compact & Economical Industrial Vacuum Cleaner

### • Product Description

V3 series are Single Phase Industrial Vacuum Cleaners with high pressure and adjustable air flow; very ideal for high precision general cleaning applications.



### • Applications

-  Suitable for single phase working conditions.
-  Suitable for the working applications that require mobility and adjustable air flow.
-  General floor cleaning, etc.



### • Technical Parameters

Model	V3J	V3J-L	V3JS	V3JS-L
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)	480 / 282.3			
Max vacuum (mmH₂O) / (kPa)	2500 / 24.5			
Noise dB (A)	82±2			
Air inlet Dia. (mm) / (in)	Ø 50 / 2			
Filter area (m²) / (sq.ft)	1.9 / 20.5		3.5 / 37.7	
Filter efficiency	>99%			
Capacity of collection barrel (L) / (gal)	65 / 17.2	/	65 / 17.2	/
Dimensions【LxWxH】(mm) / (in)	780*670*1460 / 30.7*26.4*57.5	670*505*1490 / 26.4*20.0*58.7	780*670*1460 / 30.7*26.4*57.5	670*505*1490 / 26.4*20.0*58.7
Weight (kg) / (lb)	76 / 167.5	50 / 110	85 / 187.4	55 / 121

\*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



### • Features

- Compact and mobile structure.
- Two filtration options to meet the requirements of different filtration accuracy.  
(V3J—filter bag type, V3JS—filter cartridge type)
- Equipped with filter cleaning device for easy filter cleaning.
- Three powerful motors with independent controller.
- Easy dust container cleaning.



### • Optional Configurations

- Turbine motor version: VKD
- Economical Version: V3JY Series
- Stainless steel version
- Collection bag version: V3J-L/V3JS-L



Step one    Step two    Step three



# VKD Series




Upright Compact & Economical Industrial Vacuum Cleaner

## • Product Description

VKD series are Compact Industrial Vacuum Cleaners with high pressure; very ideal for small footprint, high precision, mobility and continuous applications.



## • Applications

-  Suitable for single or three phase working conditions.
-  Highly efficient for continuous working applications that require movability and heavy duty.
-  Routing machine cleaning, etc.



## • Technical Parameters

Model	VKD-22	VKD-30	VKD-40
Voltage (V / Hz)		380 / 50	
Power (kW) / (HP)	2.2 / 3.0	3.0 / 4.0	4.0 / 5.5
Starting current (A)	30	40	60
Rated current (A)	5.6	7.2	9
Max air flow (m³/h) / (CFM)	265 / 156	318 / 187	420 / 247
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2350 / 24	2600 / 25.5	2600 / 25.5
Noise dB (A)	74±2	75±2	76±2
Air inlet Dia. (mm) / (in)		Ø 50 / 2	
Filter area (m²) / (sq.ft)		1.9 / 20.5	
Filter efficiency		>99%	
Capacity of collection barrel (L) / (gal)		65 / 17.2	
Dimensions【LxWxH】(mm) / (in)	760*650*1460 / 30*25.6*57.5	760*650*1570 / 30*25.6*61.8	
Weight (kg) / (lb)	94 / 207	125 / 275	130 / 287

\*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



## • Features

- Compact and mobile structure.
- Customizable voltage  
For power less than or equal to 2.2kW, the machine can be customized into single phase.
- Equipped with filter cleaning device for easy filter cleaning.
- Maintenance free powerful turbine motor can work continuously for 24 hours.
- Easy dust container cleaning.



## • Optional Configurations

- > Economical Version: V3 Series
- > Horizontal Structure: VA Series

# VA Series







Three Phase Compact Industrial Vacuum Cleaner

## • Product Description

VA Series are three phase Vacuum Cleaners with high pressure; very ideal for sucking/absorbing large mixed particles or chips in continuous applications.



## • Applications

-  Suitable for three phase working conditions.
-  Ideal solution for continuous working, heavy and fine dust working condition.
-  Industries: Metal Processing (grinding, cutting, drilling, etc.)
-  PCB (cutting, drilling, routing, etc.)
-  Textile Cleaning
-  Machine Cleaning

## • Technical Parameters

Model	VA-22J	VA-22J-L	VA-40J	VA-40J-L
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)	265 / 156		420 / 247	
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2350 / 23		2600 / 25.5	
Noise dB (A)	72±2		74±2	
Air inlet Dia. (mm) / (in)	Ø 50 / 2		Ø 50 / 2	
Filter area (m²) / (sq.ft)	1.9 / 20.5		1.9 / 20.5	
Filter efficiency	>99%		>99%	
Capacity of collection barrel (L) / (gal)	65 / 17.2	/	65 / 17.2	/
Dimensions【LxWxH】(mm) / (in)	1080*650*1300 / 42.5*25.6*51.2	1100*650*1500 / 43.3*25.6*59.1	1080*650*1300 / 42.5*25.6*51.2	1100*650*1500 / 43.3*25.6*59.1
Weight (kg) / (lb)	90 / 198		100 / 220	

\*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

## • Features

- Customizable voltage  
For power less than or equal to 2.2kW, the machine can be customized into single phase.
- Equipped with filter cleaning device for easy filter cleaning.
- Maintenance free powerful turbine motor can work continuously for 24 hours.
- Easy dust container cleaning.



## • Optional Configurations

- › Filter cartridge version: VA-JS
- › Motor casing: VZ Series
- › Self-cleaning Version: VZF Series
- › Explosion- proof Version: VZSB Series
- › Collection bag version: VA-J-L/ VA-JS-L





# VZ Series






Heavy Duty Industrial Vacuum Cleaner

## • Product Description

VZ/VZS Series are the Heavy Duty Industrial Vacuum Cleaners with high pressure; very ideal for sucking/absorbing large mixed particles or chips in continuous applications or installed to centralized extraction units.



## • Applications

-  Suitable for three phase working conditions.
-  Ideal solution for continuous working, heavy and fine dust working condition.
-  Metal Processing (grinding, cutting, drilling, etc.)
-  PCB (cutting, drilling, routing, etc.)
-  Machine Cleaning

## • 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)		265 / 156	318 / 187	420 / 247	530 / 312	700 / 412
Max vacuum (mmH <sub>2</sub> O) / (kPa)		2350 / 23	2600 / 25.5	2600 / 25.5	3000 / 29.5	2700 / 26.5
Noise dB (A)		72±2	74±2	75±2	76±2	78±2
Air inlet Dia. (mm) / (in)		Ø 50 / 2				
Filter area (m²) / (sq.ft)	VZ series	1.9 / 20.5				
	VZS series	3.5 / 37.7				
Filter efficiency		>99%				
Capacity of collection barrel (L) / (gal)		65 / 17.2		100 / 26.4		
Dimensions【LxWxH】(mm) / (in)		1180*670*1320 / 45.6*23.4*52		1300*670*1520 / 51.2*26.4*60		
Weight (kg) / (lb)		120 / 265	124 / 273	148 / 326	171 / 377	174 / 384

\*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

## • Features

- Customizable voltage  
For power less than or equal to 2.2kW, the machine can be customized into single phase.
- Equipped with filter cleaning device for easy filter cleaning.
- Maintenance free powerful turbine motor can work continuously for 24 hours.
- Pressure gauge to detect filter clogging.
- Easy dust container cleaning.
- Remote control



## • Optional Configurations

- > Economical Version: VA
- > Filter bag Version: VZ
- > Self-cleaning Version: VZF
- > ATEX Explosion- proof Version: VZSB

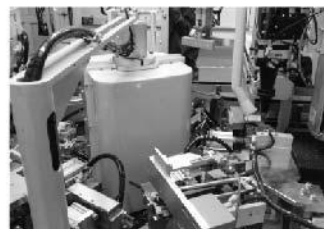


# VZSB Series

ATEX Heavy Duty Industrial Vacuum Cleaner

## • Product Description

VZSB Series are ATEX- certified Vacuum Cleaners with high pressure; very ideal for sucking/absorbing large mixed particles or chips in continuous applications or installed to centralized extraction systems.



## • Applications

-  Suitable for single/ three phase working conditions.
-  Suitable for continuous working conditions and heavy dust extraction with explosion proof requirement.
-  Industries: Metal Processing (grinding, cutting, drilling, etc.)
-  Wood Working
-  Food Industry
-  Chemical Industry
-  Machine Cleaning
-  Active Metal (Aluminum, Magnesium, Titanium) Polishing, Grinding, Cutting, etc..

## • 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)	285 / 168	500 / 294	500 / 294
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2000 / 19.6	2000 / 19.6	2500 / 24.5
Noise dB (A)	72±2	73±2	75±2
Air inlet Dia. (mm) / (in)	Ø 50 / 2		
Filter area (m²) / (sq.ft)	3.5 / 37.7		
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

\*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

## • Features

- Customizable voltage  
For power less than or equal to 2.2kW, the machine can be customized into single phase.
- ATEX certified for Zone 22
- Maintenance free powerful turbine motor can work continuously for 24 hours.
- Equipped with filter cleaning device for easy filter cleaning.
- Pressure gauge to detect filter clogging
- Easy dust container cleaning



## • Optional Configurations

- > Normal Version: VZ Series
- > Self-cleaning Version: VZF Series
- > Spark Trap
- > Remote Control





# VZF Series






Heavy Duty Pulse Jet Industrial Vacuum Cleaner

## • Product Description

VZF Series are Heavy Duty Industrial Vacuum Cleaners with high pressure, pulse jet cleaning device; very ideal for sucking/absorbing large mixed particles or chips in continuous applications or installed to centralized extraction systems.



## • Applications

-  Suitable for three phase working conditions.
-  Ideal solution for continuous working, heavy and fine dust working condition.
-  Industries: Metal Processing (grinding, cutting, drilling, sandblasting, etc.)
-  PCB (cutting, drilling, routing, etc.)
-  Machine Cleaning

## • 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)	265 / 156	318 / 187	420 / 247	530 / 312	700 / 412
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2350 / 23	2600 / 25.5	2600 / 25.5	3000 / 29.5	2700 / 26.5
Noise dB (A)	72±2	74±2	75±2	76±2	78±2
Air inlet Dia. (mm) / (in)	Ø 50 / 2				
Filter area (m²) / (sq.ft)	>99%				
Capacity of collection barrel (L) / (gal)	65 / 17.2		100 / 26.4		
Dimensions【LxWxH】(mm) / (in)	1180*670*1370 / 45.6*23.4*54		1300*670*1570 / 51.2*26.4*61.9		
Weight (kg) / (lb)	120 / 265	144 / 317	165 / 366	187 / 412	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



## • Features

- Customizable voltage  
For power less than or equal to 2.2kW, the machine can be customized into single phase.
- Two filtration options to meet the requirements of different filtration accuracy.
- Equipped with filter self-cleaning device for easy filter cleaning.
- Maintenance free powerful turbine motor can work continuously for 24 hours.
- Pressure gauge to detect filter clogging.
- Easy dust container cleaning
- Remote control



## • Optional Configurations

- Economy Version :VA Series
- Manual filter cleaning Version: VZ Series
- Explosion- proof Version: VZSB Series
- Air Compressor: VZF-K Series



# VFG Series

Two-stage Filtration Industrial Vacuum Cleaner




## • Product Description

VFG- E Series uses turbine motor which has the characteristics of long working hours, high pressure; very ideal for three phase high precision applications.

VFG- S Series uses carbon brush motor with high pressure and adjustable air flow; suitable for single phase high precision applications.



## • Applications

-  S-series is suitable for single phase working conditions. E-series is suitable for three phase working conditions.
-  Suitable for hazardous dust (e.g. chemical dust (non-flammable and explosive), silicon powder (concrete dust), carbon powder, fine metal dust); can effectively reduce the risk of secondary dust pollution.
-  Suitable for precious metal dust collection; can effectively improve the efficiency of dust recycling.

## • 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	420 / 258	600 / 353	420 / 247	530 / 312	700 / 412
Max vacuum (mmH <sub>2</sub> O) / (kPa)	2400 / 23.5	2400 / 23.5	2400 / 23.5	2600 / 25.5	3000 / 29.5	2700 / 26.5
Noise dB (A)	80±2	85±2	88±2	78±2	83±2	83±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	139 / 306	170 / 375	180 / 397

\*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



## • Features

- Compact and mobile structure.
- Two-stage filtration for high filtration accuracy.
- Equipped with filter cleaning device for easy filter cleaning.
- Powerful carbon brush motors with independent controller, or maintenance free powerful turbine motor can work continuously for 24 hours.
- Cassettes for easier dust cleaning. Avoid secondary pollution. (Length:22m)
- Pressure gauge to detect filter clogging.



## • 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