

# 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	VTFCB-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
Max air pressure (mmH <sub>2</sub> O) / (kPa)	2000 / 19.6	2350 / 23.0	2700 / 26.5	2600 / 25.5	3000 / 29.4	2700 / 26.5	2350 / 23	2350 / 23
Max air flow (m <sup>3</sup> /h) / (CFM)	210 / 123	265 / 156	318 / 187	420 / 247	530 / 312	700 / 412	1000 / 588.6	1320 / 776.9
Filter efficiency	99%							
Filter area (m <sup>2</sup> ) / (sq.ft)	4.5 / 48.5	4.5 / 48.5	9 / 98	9 / 98	9 / 98	9 / 98	22 / 236.8	22 / 236.8
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.