

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
- › 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	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	
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 / 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)	
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	
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
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.