

FBD | Mining Explosion Proof Press-in Type of Contra-rotated Ventilation Fan with Plastic Impeller



Use

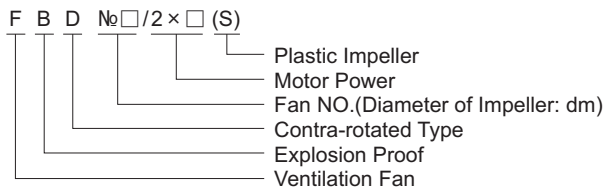
FBD mining plastic impeller ventilation fan(hereinafter: fan) adopts the design of impeller tri-variate movement theory which has been tested according to USA NASA standard. The fan works with low noise and high efficiency. The YBF2 explosion proof motors are designed to work together with the related ventilation fan. Therefore, both of the fan and the motor are complied with the standard of GB3838.2-2000 the 2nd part of electrical equipments used in the explosive environment, explosion proof type is: “d”.

As an essential ventilation fan in coalface, it is used for the press-in type long distance ventilation in the underground coal mine where is filled with explosive gas mixture of methane , coal dust and so on.

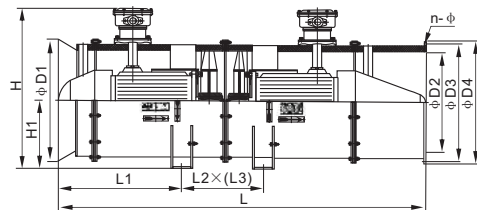
Technical Descriptions

1. The design of vanes adopts the plastic impeller which is alike with the plane wing, the material of impeller is nylon fortified., anti-static and flame-proof.
2. Suitable for long distant ventilation in the underground coal mine.
3. Impeller machinery Tri-variate movement theory is used, wind volume is big and efficient.
4. Can fulfill various demands of working conditions in the coal mine.

Meaning of Type



Dimension Drawing



Dimension and Installation Size

Type	D1	D2	D3	D4	L	L1	L2	L3	H	H1	n-φ	Weight (kg)
FBD №5.0/2×5.5(S)	φ625	φ503	φ600	φ625	1800	660	480	470	850	350	10-φ12	440
FBD №5.0/2×7.5(S)	φ625	φ503	φ600	φ625	1800	660	480	470	850	350	12-φ12	450
FBD №5.6/2×11(S)	φ687	φ563	φ660	φ687	2200	700	500	520	920	380	12-φ12	620
FBD №6.0/2×15(S)	φ727	φ603	φ700	φ727	2200	700	520	560	960	400	12-φ12	640
FBD №6.0/2×18.5(S)	φ727	φ603	φ700	φ727	2200	700	520	560	960	400	12-φ12	800
FBD №6.0/2×22(S)	φ727	φ603	φ700	φ727	2200	700	520	560	960	400	12-φ12	1000
FBD №6.3/2×30(S)	φ778	φ633	φ750	φ778	2400	920	560	540	1010	430	12-φ12	1020
FBD №6.7/2×37(S)	φ815	φ673	φ790	φ815	2550	850	600	560	1060	450	12-φ12	1200
FBD №7.1/2×45(S)	φ860	φ713	φ830	φ860	2550	850	600	590	1090	470	12-φ12	1300
FBD №8.0/2×55(S)	φ970	φ805	φ940	φ970	3200	1260	680	640	1320	525	12-φ12	1460

Technical Data

Type	Fan No.	Range of wind volume (m³/Min)	Intensity of pressure (Pa)	Efficiency (%)	LSA dB(A) noise	Matched motor		
						Motor type	Rev (R/m)	Power (kW)
FBD №5.0/2×5.5(S)	№5.0	130-240	340-2930	≥75±5	≤30	YBF2-132S1-2	2900	2×5.5
FBD №5.0/2×7.5(S)	№5.0	180-300	340-3200	≥75±5	≤30	YBF2-132S2-2	2900	2×7.5
FBD №5.6/2×11(S)	№5.6	180-350	400-4000	≥80±5	≤25	YBF2-160M1-2	2930	2×11
FBD №6.0/2×15(S)	№6.0	230-450	400-4500	≥80±5	≤25	YBF2-160M2-2	2930	2×15
FBD №6.0/2×18.5(S)	№6.0	270-460	800-4800	≥80±5	≤25	YBF2-160L-2	2930	2×18.5
FBD №6.0/2×22(S)	№6.0	350-500	800-5200	≥80±5	≤25	YBF2-180M-2	2940	2×22
FBD №6.3/2×30(S)	№6.3	400-630	1100-6000	≥80±5	≤25	YBF2-200L1-2	2950	2×30
FBD №6.7/2×37(S)	№6.7	500-850	850-6400	≥80±5	≤25	YBF2-200L2-2	2950	2×37
FBD №7.1/2×45(S)	№7.1	550-880	1120-5800	≥80±5	≤25	YBF2-225M-2	2970	2×45
FBD №8.0/2×55(S)	№8.0	600-980	1580-7600	≥80±5	≤25	YBF2-250M-2	2970	2×55