

Explosion-proof Axial Fan

Product Characteristic

This series of products consists of explosion-proof motors, impellers, wind tubes, etc. The impellers are casted with aluminum alloy, and the wind tubes are welded with steel plates and profiles, then surface treated with high-voltage electrostatic spraying. Steel pipe wiring or cable wiring can be used for power supply leads, with grounding screws outside the housing. It has the characteristics of low noise, low energy consumption, and excellent performance. The CBF explosion-proof exhaust fan can be divided into pipeline axial flow fan, fixed explosion-proof axial flow fan, and post-type explosion-proof axial flow fan according to the installation method.

Usage conditions

- 1.Hazardous locations with explosive gas mixtures: Zone 1, Zone 2
- 2.Explosive gas mixtures: IIA, IIB
- 3.Ambient temperature: -20~+40℃
- 4.Relative humidity: <95% (+25℃)
- 5.Places without heavy corrosion or significant dust
- 6.Operating voltage: 220/380V, 50Hz

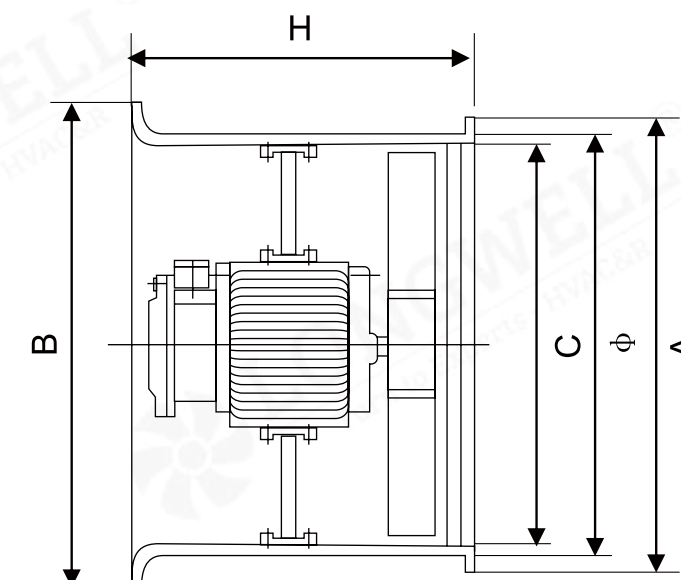
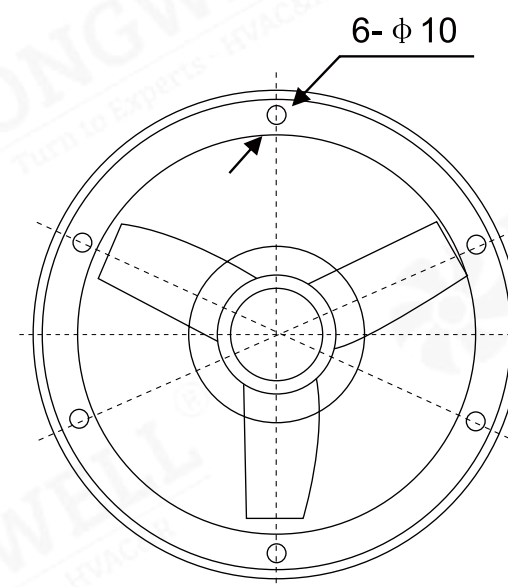
Parameter table

Model	Impeller diameter(mm)	Power (kw)	Air Volume (m³/h)	Spindle speed(r/min)	Voltage (V)	Explosion-proof marking	Protection class	Inlet thread	Wire outer diameter(Ømm)
LWEAF300-01	300	0.18	2280	1450	220/380	ExdII BT4	IP55	3/4	10~14
LWEAF400-01	400	0.37	2880	1450	220/380	ExdII BT4	IP55	3/4	10~14
LWEAF500-01	500	0.55	5700	1450	220/380	ExdII BT4	IP55	3/4	10~14
LWEAF600-01	600	0.75	8700	1450	220/380	ExdII BT4	IP55	3/4	10~14
LWEAF700-01	700	1.1	10200	1450	380	ExdII BT4	IP55	3/4	10~14
LWEAF750-01	750	1.5	10500	1450	380	ExdII BT4	IP55	3/4	10~14



Installation and usage

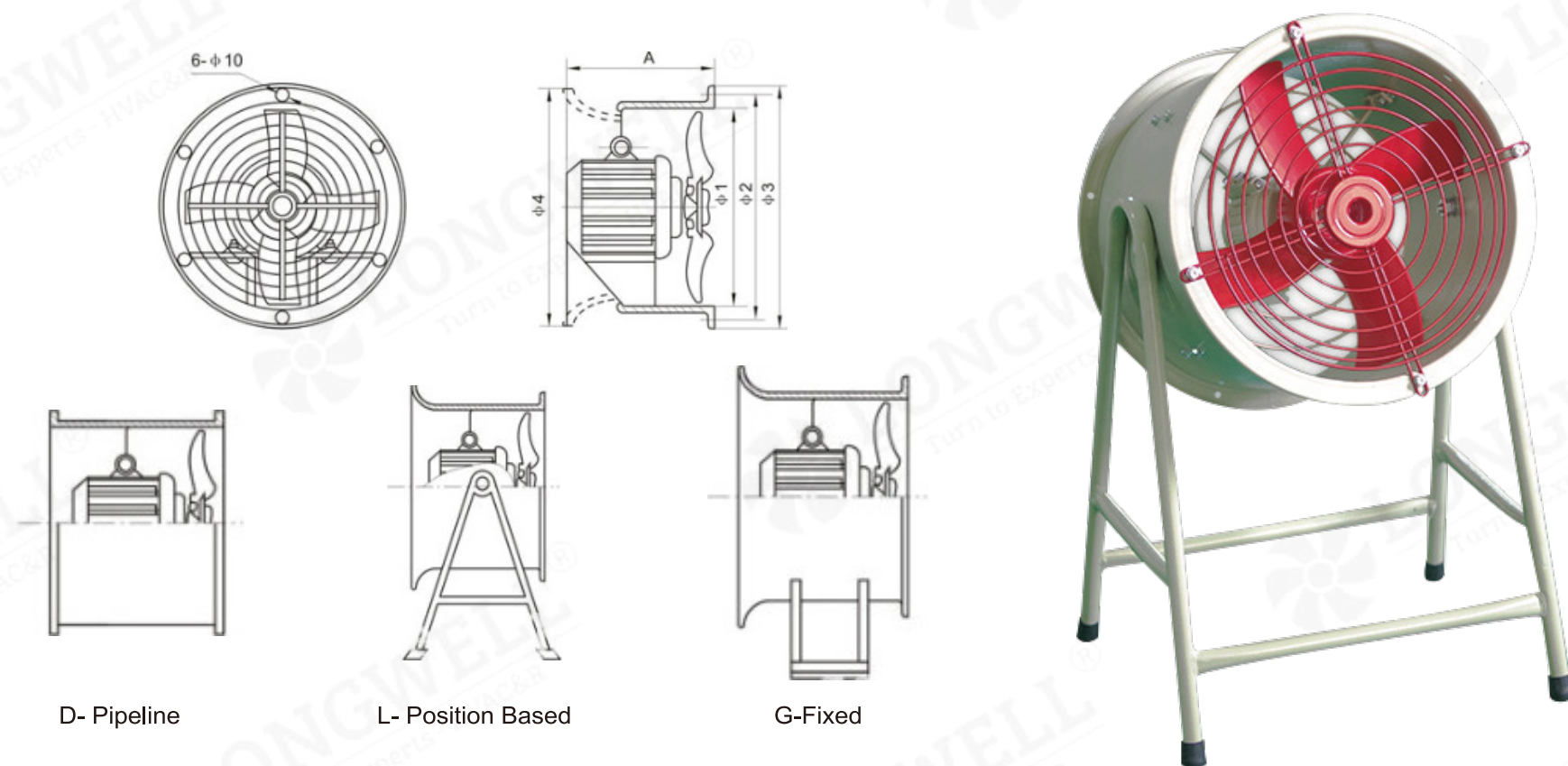
- Before installation, check whether the basic data listed on the product nameplate matches the actual use conditions.
- The product should be reliably grounded.
- Regardless of the type of cable used, the sealing ring of the inlet device must be pressed tight.
- During installation and maintenance, ensure that the clearance between the phases in the wire chamber is not less than 8mm, and the creepage distance is not less than 10mm.
- When maintenance is required, cut off the power supply to the front stage and open the cover.
- During installation and maintenance, protect the flameproof surface and apply 204-1 rust preventive oil.
- The sealing ring of the inlet device is made of oil-resistant rubber 301, which has a certain Shore hardness. If users find it aging during use or maintenance, they should contact the company for purchase and replacement in a timely manner to ensure explosion-proof performance.



Parameter table

Model	A	B	C	Ø	H	Mounting hole	Remark
LWEAF300-01	355	365	355	312	310	4-Ø7.5	/
LWEAF400-01	455	470	435	412	310	4-Ø7.5	/
LWEAF500-01	555	572	535	512	325	4-Ø7.5	/
LWEAF600-01	655	670	630	610	325	4-Ø7.5	/
LWEAF700-01	766	766	738	710	397	4-Ø7.5	double flange on both sides
LWEAF750-01	808	808	778	750	397	4-Ø7.5	double flange on both sides

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Model	A	Φ1	Φ2	Φ3	Installation hole
LWEA280S(T)M	290	290	310	330	Φ8
LWEA315S(T)M	315	317	340	36	Φ8
LWEA355S(T)M	315	365	390	410	Φ8
LWEA400S(T)M	315	410	430	450	Φ8
LWEA450S(T)M	315	460	480	50	Φ8
LWEA500TM	355	510	535	56	Φ8
LWEA560TM	355	565	595	615	Φ8
LWEA630TM	460	610	635	655	Φ10
LWEA710TM	520	710	740	765	Φ10
LWEA800TM	520	810	845	875	Φ10
LWEA900TM	640	910	945	975	Φ12
LWEA1000TM	640	1010	1045	1075	Φ12
LWEA1120TM	750	1120	1155	1190	Φ12

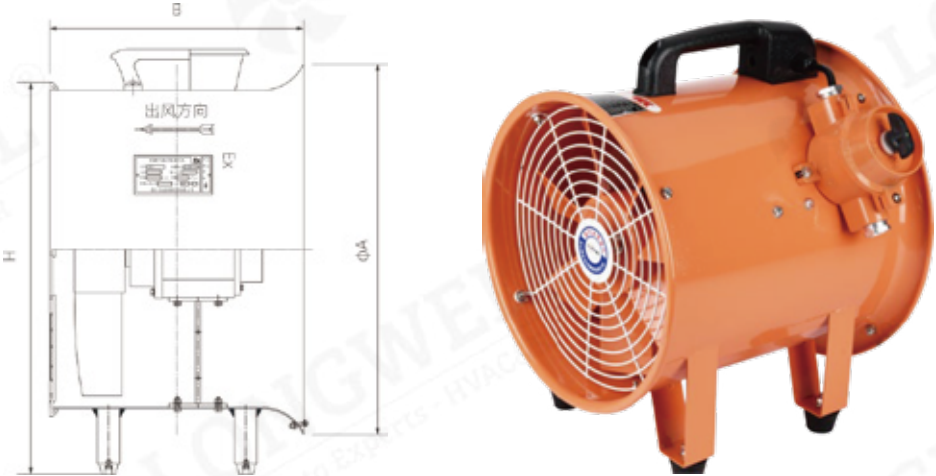
Technical Parameters

Model	Impeller diameter (mm)	Power (KW)	Speed (r/min)	Air volume (m³/h)	Air pressure (Pa)	Voltage (V)	Explosion-Proof Sign
LWEA280S(T)M-155E	280	0.18	1450	1605	60	220/380	Exd II BT4
LWEA280S(T)M-156E	280	0.25	2900	3202	232	220/380	Exd II BT4
LWEA315S(T)M-157E	315	0.25	1450	2273	74	220/380	Exd II BT4
LWEA315S(T)M-158E	355	0.37	2900	4545	373	220/380	Exd II BT4
LWEA355S(T)M-159E	355	0.37	1450	3265	93	220/380	Exd II BT4
LWEA355S(T)M-160E	355	0.75	2900	6542	373	220/380	Exd II BT4
LWEA400S(T)M-161E	400	0.55	1450	4687	119	220/380	Exd II BT4
LWEA400S(T)M-162E	400	1.1	2900	9336	474	220/380	Exd II BT4
LWEA450S(T)M-163E	450	0.55	1450	6658	150	220/380	Exd II BT4
LWEA500TM-164E	500	0.75	1450	9133	185	380	Exd II BT4
LWEA560TM-165E	560	1.1	1450	12812	232	380	Exd II BT4
LWEA560TM-166E	560	1.1	960	8471	110	380	Exd II BT4
LWEA630TM-167E	600	1.5	1450	18250	294	380	Exd II BT4
LWEA710TM-168E	710	3	1450	26120	373	380	Exd II BT4
LWEA800TM-169E	800	4	1450	37370	474	380	Exd II BT4
LWEA800TM-170E	800	2.2	960	24739	208	380	Exd II BT4
LWEA1000TM-171E	1000	4	960	48326	321	380	Exd II BT4

Explosion-proof Portable Axial Flow Fan

Scope of Application

Explosion-proof type is suitable for explosive gas environments of Class I,Division 1 and Class II, Division B, with temperature group T1 - T4, such as chemical, refining, and shipbuilding factories, used for ventilation and air exchange purposes, with explosion-proof marking as ExdIIBT4



Model	Air inlet A (mm)	Wind duct length B (mm)	Wind duct total height H (mm)	Air outlet (mm)	Duct inner diameter (mm)
LWA-200S(T)M-03E	269	345	306	239	210
LWA-250S(T)M-04E	329	336	373	292	261
LWA-300S(T)M-05E	365	340	405	333	306
LWA-350S(T)M-05E	436	368	471	394	364
LWA-400S(T)M-05E	470	370	511	434	406
LWA-500S(T)M-03E	575	468	628	539	507

Technical Parameters

Model	Impeller diameter (mm)	Air volume (m³/h)	Static pressure (Pa)	Speed (r/min)	Frequency (Hz)	Power (kw)	Voltage (V)
LWA-200S(T)M-03E	190	1500-2100	250-420	2800	50/60	0.15	220/380
LWA-250S(T)M-04E	240	2700-3300	300-450	2800	50/60	0.25	220/380
LWA-300S(T)M-05E	290	3720-3300	350-500	2800	50/60	0.37	220/380
LWA-350S(T)M-05E	340	4840-4840	550-600	2800	50/60	0.55	220/380
LWA-400S(T)M-05E	390	5860-6840	750-800	2800	50/60	0.9	220/380
LWA-500S(T)M-03E	490	6800-10000	185-200	1450	50/60	0.75	220/380