

Aeroflow SL-E/SL Series Local Fan

Single-Impeller Axial Fan
for Underground Mine Local Ventilation



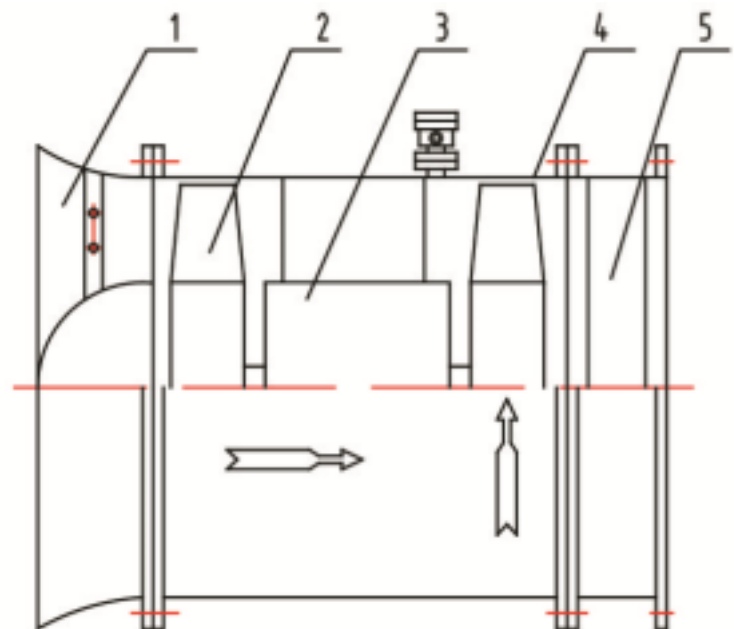
The Aeroflow SL-E, explosion-proof, can be used in metal, coal, and chemical mines, as well as tunnel construction.

The temperature of the transport medium should be between -15°C - 40°C , less than 90% in humidity, and non-corrosive.

Non explosion-proof option, Aeroflow SL, is available for metal mines.

The SL-E is an axial fan, consisting of five main components: a collector, electric motor, barrel body, impeller, and a diffuser. The motor is directly connected to the impeller to provide reliable transmission of high efficiency and low maintenance.

- 1 - Collector
- 2 - Impeller
- 3 - Motor
- 4 - Barrel body
- 5 - Diffuser



The electric motor is a 2-pole 3-phase asynchronous motor, operating at 380/660V by default. However, it can be factory-customized according to specific requirements. The motor base and barrel body are welded together. The motor is cooled by air flow from the impeller.

The junction box is mounted outside of the motor for ease of connecting wires. The junction box has 6 line terminals and 1 ground terminal. Users can choose connection options according to source voltage. When the source is 380V, users can choose a Δ connection. When source is 660V, users can choose a Y connection. The default setting is a Δ connection. A grounding bolt is welded on the flange of the main barrel.

Aeroflow SL-E/SL Series Main Fan

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Table 1. Aeroflow SL-E/SL Series Specifications

	Model No.	SL-E-0.75	SL-E-1.1	SL-E-2.2	SL-E-5.5	SL-E-7.5	FSL-E-11	SL-E-22	SL-E-33
Motor	Rated Power (kW)	0.75	1.1	2.2	5.5	7.5	11	22	30
	Rated Voltage (V)	380	380	380/660	380/660	380/660	380/660	380/660	380/660
	Rated Current (A)	1.83	2.6	4.7/2.7	11.1/6.4	14.9/8.6	21.8/12.6	42.2/24.4	56.9/32.7
	Rated Frequency (Hz)	50	50	50	50	50	50	50	50
	# of Phase	3	3	3	3	3	3	3	3
	Speed (rpm)	1,450	2,825	2,840	2,900	2,900	2,930	2,940	2,950
	Power Factor (cosΦ)	0.86	0.86	0.86	0.88	0.88	0.88	0.89	0.89
	# of Pole	4	2	2	2	2	2	2	2
	Efficiency	75	76	82	85.5	85.8	87.2	89	90
	Connection			Δ/Y	Δ/Y	Δ/Y	Δ/Y	Δ/Y	Δ/Y
Fan	Total Pressure (Pa)	210-280	600-200	960-380	1,700-800	1,800-800	2,250-800	3,200-680	3,500-800
	Air Flow Rate (m ³ /s)	90-150	40-54	55-101	90-180	110-200	130-240	240-370	250-425
	Total Efficiency (%)	75	75	80	80	80	80	80	80
	Noise Level (dBA)	≤30	≤30	≤30	≤30	≤30	≤30	≤25	≤25
	Blade Diameter (mm)	354	264	300	391	450	500	560	560
Weight (kg)		35	43	52	110	150	185	400	420