



Plate Axial Fan

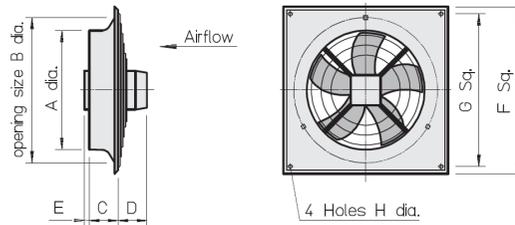
Installation and Operation Guide



315mm Fan - 90001127
 355mm Fan - 90001129
 400mm Fan - 90001131
 450mm Fan - 90001133
 500mm Fan - 90001135



Fan Dimensions



	Fan Part Number				
	90001127	90001129	90001131	90001133	90001135
A	317	358	403	452	504
B	345	386	488	548	538
C	82	86	88	100	150
D	85.5	77	96	96	30.5
E	3.5	20	0	10.5	37
F	430	485	540	575	655
G	380	435	490	535	615
H	9	9	9	11	11

Dimensions in mm

Plate Axial Fan Information

Fan Part No.	90001127	90001129	90001131
Fan size (mm)	315mm	355mm	400mm
Open airflow (m³/h)	2700	3700	4950
Open airflow (l/s)	750	1028	1375
Sound pressure (dB(A) @3 m)	47	50	49
Power (Watts)	0.14	0.22	0.32
Current (Amps)	0.65	0.95	1.40
Voltage	230 V / 1 ph / 50Hz		
IP Rating	IP54		
Weight (Kg.)	5.5	7.0	9.0

Fan Part No.	90001133	90001135
Fan size (mm)	450mm	500mm
Open airflow (m³/h)	5432	3700
Open airflow (l/s)	1509	1028
Sound pressure (dB(A) @3 m)	49	50
Power (Watts)	0.34	0.22
Current (Amps)	1.48	0.95
Voltage	230 V / 1 ph / 50Hz	
IP Rating	IP54	
Weight (Kg.)	10.0	20.0

Transport and Storage

Fans should be stored in the dry and protected from weather in their original packaging. If palletised quantities are stored or transported, it is recommended they are covered to protect against particulate damage and contamination.

Suitable storage temperatures are between -20°C and +40°C.

Care should be taken when re-packing any fans to ensure the packaging is suitable for the required form of transport. Damage due to improper transportation, storage or installation is not liable for warranty. Care should be taken when lifting. Correct lifting techniques / apparatus should be used when necessary. Dropping or sharp blows to the fan can cause damage. Any damage to the fan or packaging should be inspected by a suitably qualified person or returned to Airflow Developments Ltd for inspection before use.

Fans should not be lifted or carried by the electrical lead, terminal box or impeller.

Electrical Installation

All electrical installations must be carried out by an approved electrician in accordance with the latest IET BS 7671 Requirements for Electrical Installation, Low Voltage Directive 2014/35/EU, Machinery Directive 89/392/CE or the appropriate regulations in the country of installation. All fans require a 240V 50/60 Hz single phase supply. Electric circuit to be used should be isolated before any work is carried out. All fans are speed controllable. The use of other manufactures speed controllers can lead to fan and controller failure. Only the correct sized Airflow Developments Ltd speed controller should be used. All fans are equipped with multi-shot thermal contacts, which are connected in series within the motor windings. Fans will automatically cut out when motor windings get too hot and will automatically restart after cooling. Fans should be protected against automatic restart using an appropriate motor protection circuit breaker enabling manual reset. Electrical supply cable to the fan must be fitted through the cable gland supplied and fitted to the plastic connector box. Plastic connector box is not suitable for metal cable glands.

Electrical Installation

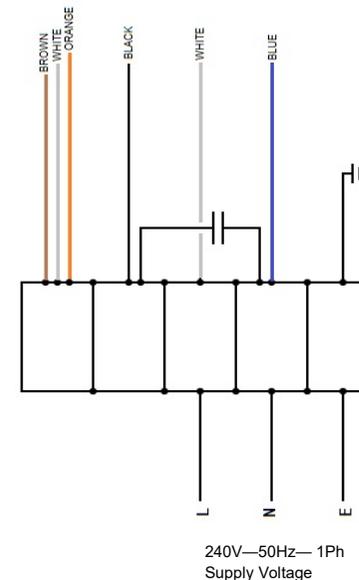
All cables should be suitably retained and enclosed where necessary to prevent damage taking place. A 3 x pole lockable isolation switch with a 3mm contact gap should be used on the mains supply to the unit. Before function testing of the fan ensure the impeller runs freely. Function testing should be carried out by switching the fan on for a short time. When the fan is running, checks should be carried out for: impeller rotation direction, undue noise or vibration and power consumption. Immediately switch off the fan should any problems be found and contact Airflow Developments Ltd Fan motors used are suitable for continuous running and have a rated duty type S1 (motor is suitable to this duty type and rating at which the fan may be operated for an unlimited period).

Electronic speed controller selection

Part No.	Fan Part Number				
	90001127	90001129	90001131	90001133	90001135
90001370	☺				
90001371		☺	☺	☺	
90001372					☺

AMP Rating of electronic speed controllers
 90001370 = 1AMP 90001371 = 3AMP 90001372 = 5AMP

Fan Wiring Diagram



Mechanical Installation

Mechanical installation should only be carried out by a competent person. Fans are supplied ready for installation. Care should be taken when removing the fan from its packaging. Correct lifting techniques / apparatus should be used where necessary. Fans should be inspected for any damage. If the fan is found to be damaged it should be returned to the supplier immediately. Fans should be installed to a sufficiently solid structure giving adequate support. Suitable fixings should be used. Fans can be mounted at any angle or position. When mounting ensure there is no distortion to the fan case.

The cable gland attached to the connector box should face down. Rubber mounts and vibration dampers in conjunction with the correct sized mounting feet can be used to help elevate mechanical noise transmissions. All fixing / installation points of the fan should be used. All fans are fitted with guards but care should be taken when installing to make sure it is not possible to touch any moving parts.

