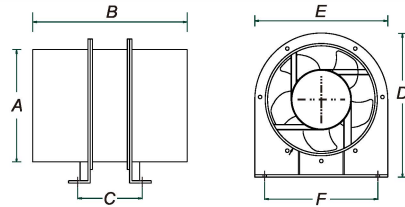


INL150

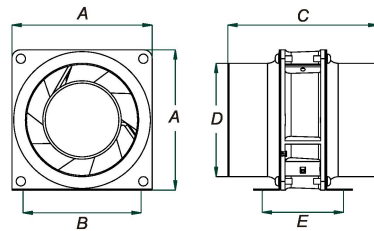
### DIMENSIONS



A	B	C	D	E
Ø145mm	200mm	83.5mm	186mm	172mm

INL100

### DIMENSIONS



A	B	C	D	E
120mm	101mm	128mm	Ø97mm	69mm

Ventair Pty. Ltd.  
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Carrum Downs, Vic 3201

## INSTALLATION AND WIRING INSTRUCTIONS



# Inline Axial Fan



Model: INL100 & INL150

READ AND SAVE THESE INSTRUCTIONS

## **INL Series Inline Axial Fan**

INL axial fans have been manufactured in accordance with the rigorous standards of production as defined by the International Quality Standards ISO 9001, to Ventair's specifications.

All the components have been checked and tested at the end of the manufacturing process.

We recommend that you check the following after receiving this product:

1. The correct size has been received
2. The correct model has been received
3. The details on the rating label correspond to the electrical supply: voltage, frequency etc.

Remove the unit from packaging and inspect for shipping damage upon receiving this exhaust fan. If the product is found to be damaged, immediately contact your local authorised supplier. **DO NOT OPERATE THE UNIT IF DAMAGED.**

### **ENVIRONMENT**

This exhaust fan is suitable for operation within indoor environments only. The fan is suitable for the exhaust or supply of both conditioned and unconditioned airstreams within the temperature ranges (inclusive of duct airstream's temperature) of (-10°C up to +45°C).

### **ELECTRICAL EQUIPMENT SAFETY** **PLEASE READ BEFORE USE**

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

- (a) Use this unit only in the manner intended by the manufacturer. If you have any questions contact the manufacturer.
- (b) This product comes with plug and lead. Before servicing or cleaning please ensure unit is unplugged or disconnected from the power supply.  
  
(b) Before servicing or cleaning the unit, switch the power off at the service panel and lock the service disconnecting means to prevent power from being switched on accidentally.  
When the service disconnecting means cannot be locked; securely fasten a prominent warning device such as a tag to the service panel.
- (c) Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable National codes & standards including National Build code of Australia.

(d) Precautions must be taken to avoid the back-flow of gases into the room from the open flue of gas or other fuel-burning appliances.  
Follow the heating equipment manufacturer's guideline and latest safety standards such as the Build Code of Australia, the National Wiring Rules also known as AS/NZS 3000 and any other local council code authorities.

(e) When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

(f) Ducted fans must always be vented to the outdoors.

(g) If this unit is to be installed over a tub or a shower, it must be installed in accordance with the Australian National Wiring Rules: AS/NZS3000 (the latest thereof).

(h) Never place a switch where it can be reached from a tub or shower.

(i) **CAUTION:** For General Ventilating Use Only. Do Not Use To Exhaust Hazardous Or Explosive Materials and Vapours.

(j) **CAUTION:** This fan is to be installed so that the blades are more than 2.1 m above the floor.

(k) All units are suitable for use with solid-state speed control.

## **INSTALLATION – Applications, Recommendations & Wiring**

### **Installation tips:**

This exhaust fan can be mounted in any orientation, horizontal or vertical, and is suitable for numerous types of applications. See Figure (1) Illustration of some typical applications.

If the installation is made to rigid or flexible ducting, then we would recommend the correct diameter ducting is used to couple to the fan flanges. If it is necessary to bend the duct at the discharge of the fan, then the bend radius should be as large as possible.

Before installing the product check the following points:

- (1) the fan impeller turns freely; and
- (2) there are no obstructions to the airflow.
- (3) **there is a socket outlet to provide power to the fan and that the socket outlet can turn OFF/ON via wall switch. If there is no socket outlet near the location of installation, a licensed electrician will be required.**
- (4) **the correct ducting size (100mm or 150mm) required are prepared and ready to be connected to the fan inlet and outlet.**

This exhaust fan includes a robust mounting bracket which enables easy and

quick installation of the fan.  
Ductwork connection should be made with duct tape or duct fast-clamps (available through your local distributor) to ensure a good seal and secure connection.

**Figure 1.** Typical Applications:



**Figure 3.** Installing and Assembly:

To start the installation:  
**CAUTION:** Ensure the electrical power to the circuit is switched OFF and the switch board before carrying out this installation.

1. Located a suitable mounting surface to mount the fan at the mounting base shown in diagram below.



2. Secure the fan to the mounting surface with suitable screws for the mounting surface material. Ensure all four fixing points are secured.
3. Connect the ducting to both the inlet and outlet of the fan;
4. Return power to the circuit and Switch ON/OFF to operate the fan.

### **MAINTENANCE**

**IMPORTANT:** BEFORE CARRYING OUT ANY MAINTENANCE OR SERVICING, ENSURE THE UNIT IS DISCONNECTED FROM THE MAIN ELECTRICAL SUPPLY.

We would recommend inspection of the product at least once every twelve (12) months to avoid the excessive accumulation of dust and dirt on the impeller.

To inspect the unit disconnect from electrical supply and remove from ducting. If any debris is evident on the impeller clean with a damp (not wet) cloth. DO NOT USE any detergents or abrasive materials for cleaning.

### **TECHNICAL SPECIFICATION**

Rated input Voltage:	220-240V AC	220-240V AC
Model:	INL100	INL150
Rated Motor Power:	18 Watts	28 Watts
Rated Frequency:	50 Hz	50 Hz
Input/output Ducted diameter:	97 mm (For 100mm ducting tubing)	145mm (For 150mm ducting tubing)
Max. Air flow rate:	119 CBM/h	379 CBM/h
Electrical classification:	Class 1	Class 1
IP Rating (Ingress Protection rating)	IP44	IP44
Indoor / Outdoor Suitability:	For indoor and covered outdoor applications	For indoor and covered outdoor applications
Climatic Classification:	Tropical condition	Tropical condition