



FAN1482 **MOMENTUM DC Axial Inline Fan 100mm**

FAN1483 **MOMENTUM DC Axial Inline Fan 150mm**

Momentum DC in-line exhaust fans are produced under G4 Building Code standards. Featuring selectable 24/7 continuous, 10 minute run on timer or standard mode, to maintain a fresh and healthy room. All 3 installation modes are controlled to boost from a wired wall switch (not included).

Thank you for purchasing this quality Axial Inline exhaust fan.

To ensure correct function and safety, please read all instructions before using the product and keep all instructions for future reference.



WHEN USING ELECTRICAL APPLIANCES, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK AND PERSONAL INJURY.



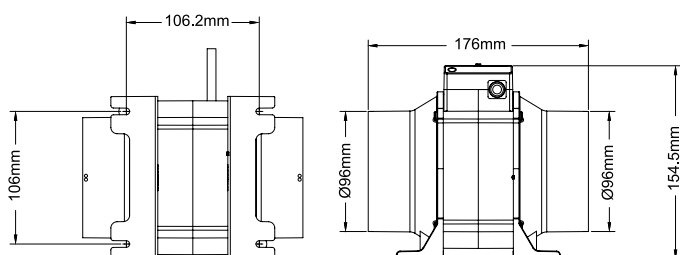
TECHNICAL DATA

Order Code	Duct (mm)	Fan Type	Max. Fan Watts (W)	Max. Fan Pressure (Pa)	Free Air Fan Performance		Specific Fan Power (W/l/s)	Sound dB(A)	Switching
					(l/s)	(m3/hr)			
FAN1482	100	Continuous (24/7)	6	32	21	77	0.29	30	Standard Wired Wall Switch
		Standard	7	52	34	123	0.21	38	
FAN1483	150	Continuous (24/7)	10	13	36	130	0.28	26	Standard Wired Wall Switch
		Standard	14	85	100	360	0.14	44	

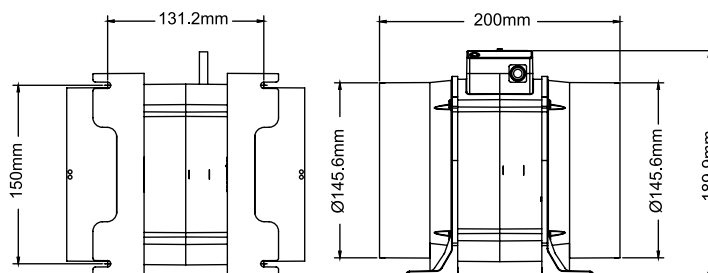
Class II (double insulated) electrical appliance



FAN1482

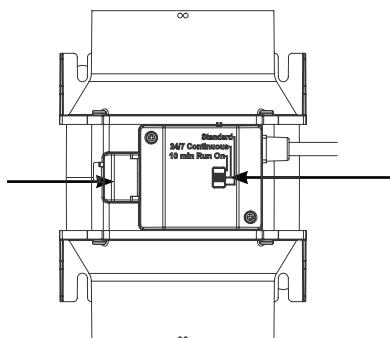


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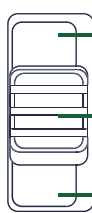


Additional Feature Terminal Block

Connect active control switch here for activation of '10min Run On' or '24/7 Continuous' settings. See wiring diagram on page 4.



Selectable Switch



- Standard**
Mould Reduction features disabled, with standard wall switching enabled
- 24/7 Continuous Trickle Extraction**
Creates a healthier living environment through continuous slow extraction with wall switching to boost
- 10 Minute Run on Timer**
Continues to operate for 10 minutes after wall switch is turned off



PLEASE READ THIS MANUAL CAREFULLY BEFORE OPERATING THIS FAN TO REDUCE
THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS.



PRECAUTIONS

- **Licensed Electrician Required:** For your safety, all electrical work including the removal of the factory link wire, adjustment of the internal speed dial, and the connection of the external control switch must be performed by a licensed electrician in accordance with the Australian/New Zealand Wiring Rules (AS/NZS 3000) or the latest edition
- **Double Insulated (Class II):** This appliance is double insulated and does not require an earth connection. Ensure the integrity of the double insulation is maintained during installation.
- **DC Technology Warning:** This unit utilises a high-efficiency DC motor. DO NOT connect this fan to any external AC solid-state speed controller or wall dimmer, as these are incompatible with DC electronics and will cause permanent damage to the motor.
- **Electronic Sensitivity:** The internal PCB (Printed Circuit Board) is sensitive to voltage fluctuations; ensure the power supply is stable and that the dual pole isolation switch is used for all maintenance to prevent electronic surges.
- **Isolation Warning:** A dual pole isolation switch (RCBO) must be included in the fixed wiring to provide full isolation for maintenance. Note that the fan may remain active in “trickle” or “run-on” mode even if the wall switch is turned off; always isolate at the dual pole switch before servicing.
- **Supervision:** This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, unless supervised by a person responsible for their safety. Cleaning and user maintenance shall not be performed by children without supervision.
- **Combustion Air Safety:** Exhaust fans may adversely affect the safe operation of appliances burning gas or other fuels (including those in other rooms) due to back flow of combustion gases. These gases can potentially result in carbon monoxide poisoning. After installation of an exhaust fan such as a partition fan or a duct fan the operation of open flued gas appliances should be tested by a competent person to ensure that back flow of combustion gases does not occur.
- **Venting Requirements:** This inline fan must be vented to the outdoors. Ensure the exhaust air is not discharged into a wall cavity, ceiling space, or any other enclosed area; it must be discharged into the external atmosphere or a dedicated duct.
- **Mounting and Support:** The fan unit must be securely fixed to a structural member (such as a ceiling joist) to prevent vibration and noise. Mount with the lowest moving parts at least 2.3m above the floor level.
- **Wet Area Compliance:** If installed in a bathroom, near sinks, or water taps, the unit must be located and installed in accordance with the latest edition of the AS/NZS 3000 wiring rules relating to damp situations (Zones). Never place a switch where it can be reached from a tub or shower.
- **Service Access:** Ensure the fan motor, toggle switch for the Run-on/Trickle modes and the integrated speed dial remain accessible for future adjustment and servicing.
- **Supply Cord:** If the supply cord (Plug & Flex) is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.
- **Usage Restrictions:** For general ventilation use only. DO NOT use to exhaust hazardous or explosive materials and vapours.
- **WARNING: For your safety, a licensed electrician must perform all electrical work and ensure a dual pole isolation switch (RCBO) is included in the fixed wiring as per the Australian/New Zealand Wiring Rules (AS/NZS 3000).**



ALL ELECTRICAL WORK MUST BE COMPLETED BY A LICENSED ELECTRICIAN.



INSTALLATION

This exhaust fan offers versatile installation, accommodating both horizontal and vertical orientations, and is designed for a wide range of applications.

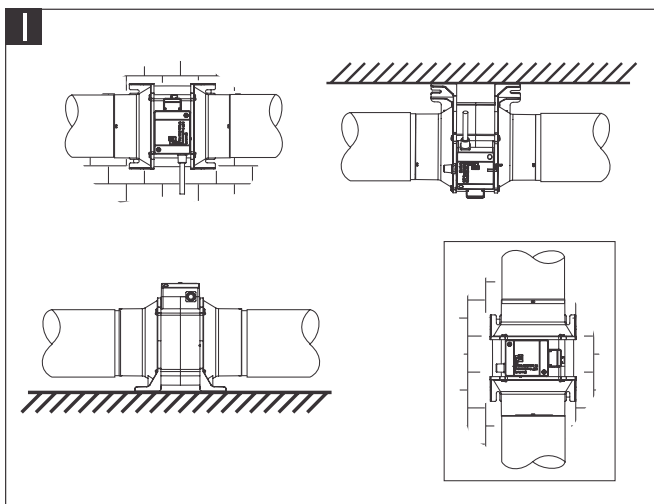
Typical installations are illustrated in Figure 1.

Before installing the product check the following points:

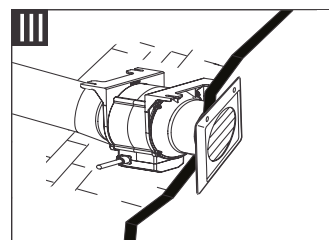
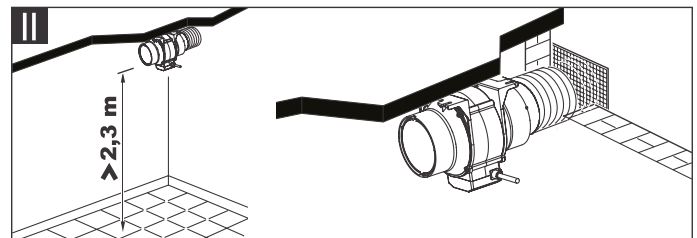
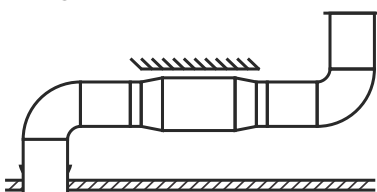
1. The fan impeller turns freely.
2. There are no obstructions to the airflow.

Each model features a robust mounting bracket, designed for quick and easy installation. To ensure a secure and airtight connection, attach any ductwork using duct tape or duct fastening clamps, both available at your local hardware store.

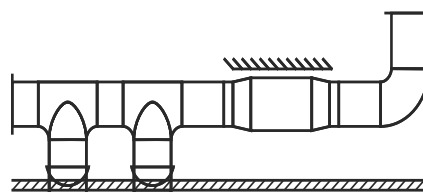
Figure 1.



Single-Point Exhaust System



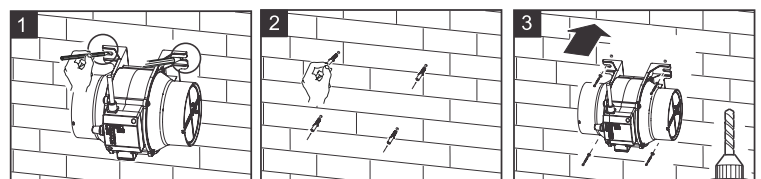
Multi-Point Exhaust System



INSTALLATION AND ASSEMBLY

To start the installation, the motor assembly must first be removed from the mounting bracket. Loosen the two retaining clips around the motor and remove.

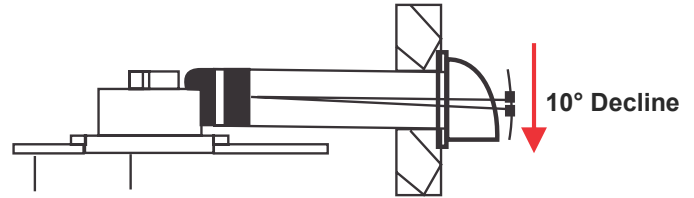
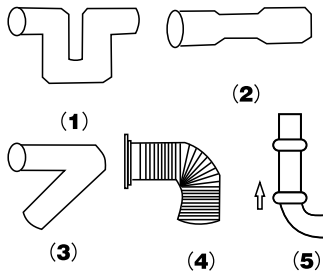
1. Drill holes at the marked positions and insert the wall plugs into the holes.
2. Use screws to firmly attach to the wall.
3. Place fan motor in the bracket & securely fasten retaining clips.



Avoid the below configurations: To ensure maximum possible airflow & performance, flexible ducting should be fully expanded with no unnecessary bends or vertical runs.

When installing the fan in a bathroom, ensure the duct declines downwards at approximately 10 degrees to aid with condensation removal.

Avoid The Below Duct Configurations



WARNING: Ensure the power supply to the exhaust fan is fully isolated via the dual pole isolation switch (RCBO) before carrying out any installation or maintenance.

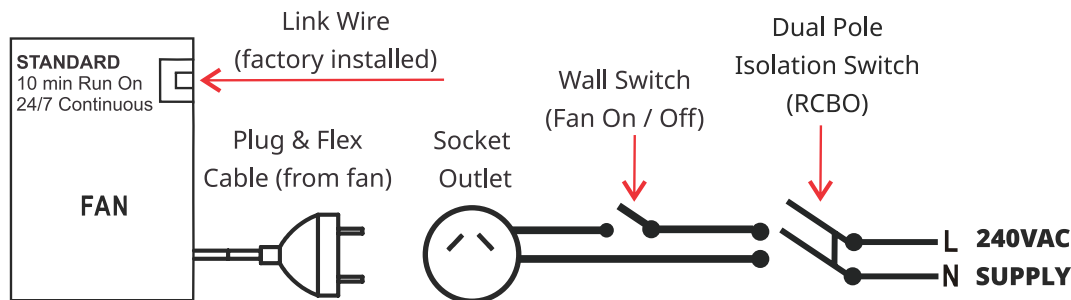


FOR YOUR SAFETY, A LICENSED ELECTRICIAN MUST PERFORM ALL ELECTRICAL WORK AND ENSURE A DUAL POLE ISOLATION SWITCH (RCBO) IS INCLUDED IN THE FIXED WIRING AS PER NEW ZEALAND WIRING RULES (AS/NZS3 000)

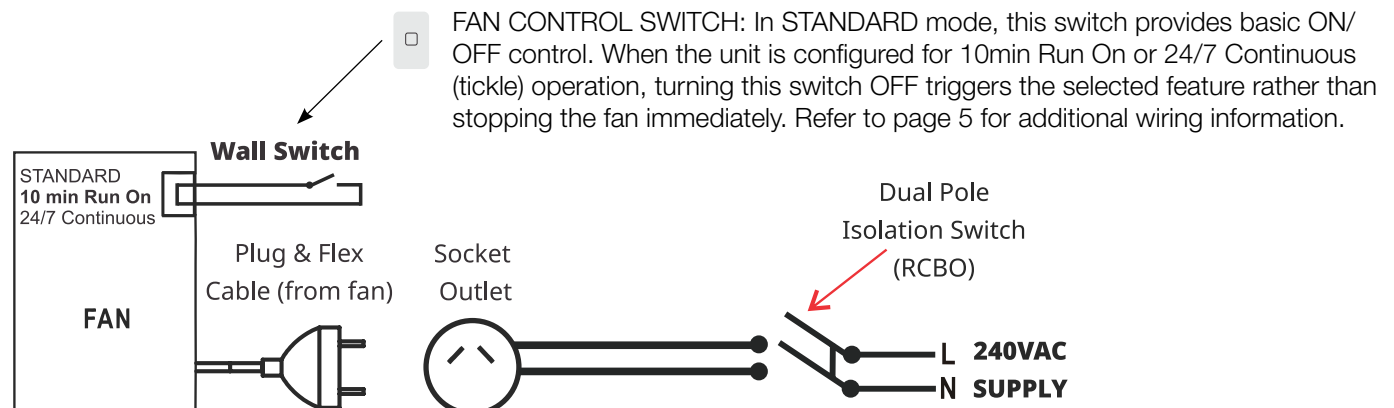


ELECTRICAL WIRING

Wiring for Standard Operation



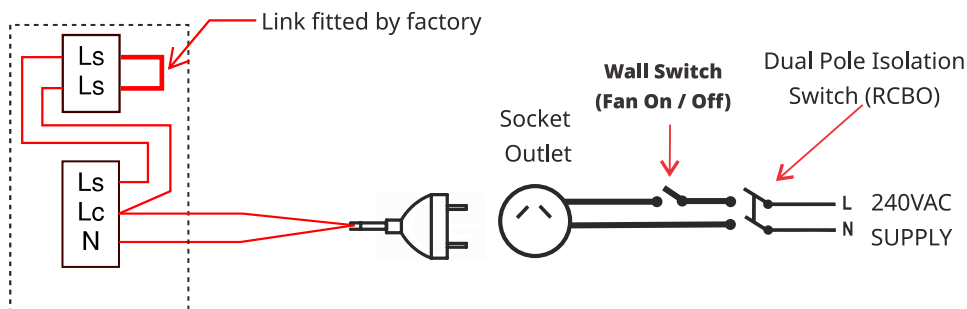
Wiring for 10 min Run on or 24/7 Continuous Operation



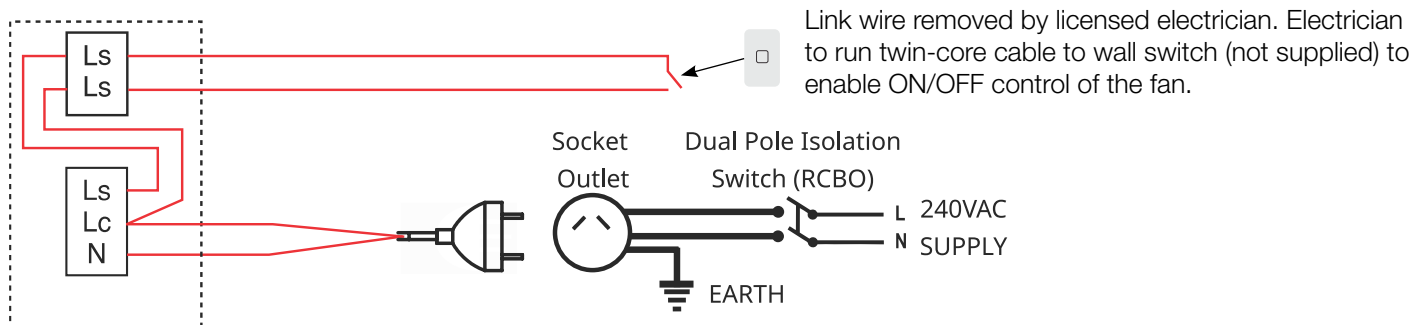
WARNING: To activate '24/7Continuous (tickle)' or '10min Run On' feature, a **licensed electrician** must connect an active control switch. Before removing the factory-installed link wire from the terminal block, fully isolate the power by removing the plug from the power outlet or setting the Dual Pole Isolation Switch (RCBO) to the OFF position.

Note: This unit utilises an internal loop; a separate Hard Active supply to the control switch is not required. Ensure the switch is suitable for the product's rated power and refer to the diagram on page 4 and 5.

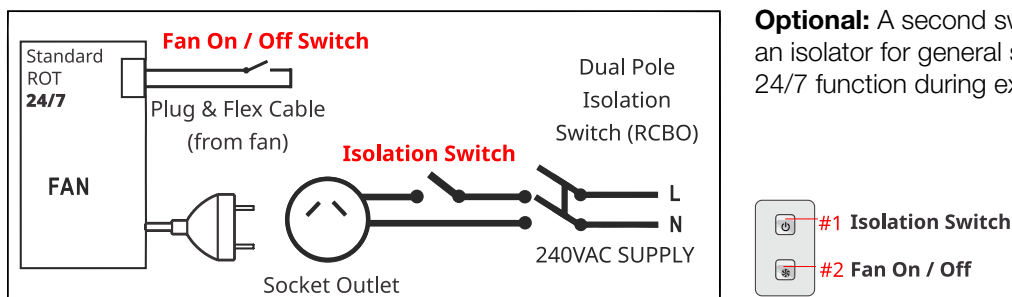
Standard Operation



Run On Timer / 24/7 Continuous



! Optional System Isolation



Optional: A second switch can be installed to act as an isolator for general servicing or deactivating the 24/7 function during extended absences.



ENSURE THE POWER SUPPLY TO THE EXHAUST FAN IS FULLY ISOLATED VIA THE DUAL POLE ISOLATION SWITCH (RCBO) BEFORE CARRYING OUT ANY INSTALLATION OR MAINTENANCE.

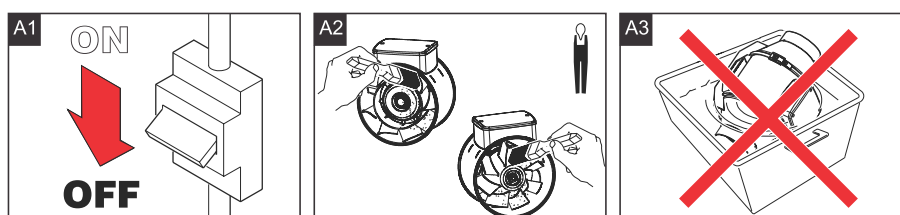


MAINTENANCE

This exhaust fan incorporates fully sealed bearings and therefore does not require any lubrication. We 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, fully isolate via the dual pole isolation switch (RCBO) and disconnect 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.



Simx Warranty Information



In this warranty:

We means Simx;

You means the consumer of the Goods

Supplier means the authorised distributor or retailer that sold you the Goods in New Zealand or Australia;

and Goods means the Simx product accompanied by this warranty and purchased in New Zealand or Australia.

The benefits provided to you under the following warranty are in addition to any other rights and remedies available to you under the law:

1. If, during the time from the date of purchase (Warranty Period), there is a defect in the Goods due to improper workmanship or material, we will replace or repair the Goods without charge. Any replacement product is warranted only for the time remaining on the original Warranty Period.
2. We are not obliged to replace or repair the Goods under clause 1 if the Goods have been improperly stored, installed, connected, used, operated, repaired, damaged, abused, tampered with, altered (without our written approval), or not maintained in accordance with our recommended installation, connection and operating instructions.
3. We exclude liability for:
 - a) consequential loss or any other loss or damage caused to property or persons arising from any cause whatsoever;
 - b) damage to consumable items such as lamps and starters; and
 - c) damage arising from normal wear and tear.
4. In order to claim under this warranty you must, within the Warranty Period, return the Goods to the Supplier, together with the original proof of purchase including the details below:

Supplier Name _____

Date of Purchase _____

Model Number _____

Invoice/Receipt No. _____

5. This warranty does not cover the cost of claiming under the warranty or transporting the Goods to and from the Supplier.

Our Goods come with guarantees that cannot be excluded under the New Zealand and Australian Consumer Law.

You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.

To speak to someone about your Simx product or claiming under this warranty, please contact:

Simx Ltd New Zealand

p: +64 9 259 1660

www.simx.co.nz