

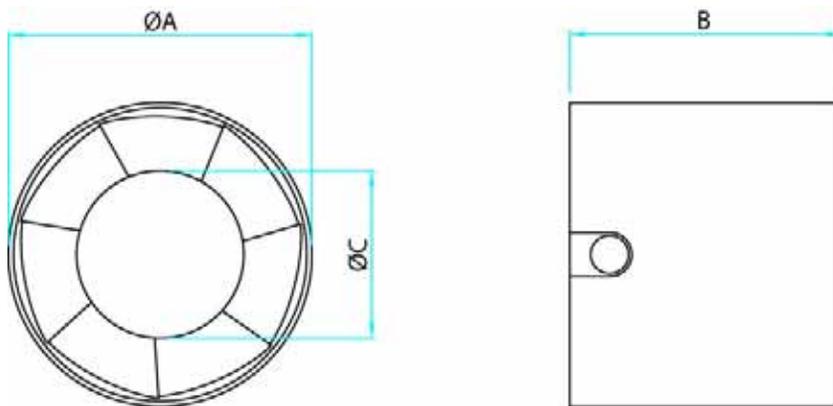


## Industrial Wall Fan SM Installation and Maintenance Instructions

**THESE INSTRUCTIONS MUST BE READ FULLY BEFORE  
COMMENCING INSTALLATION**

Code	Supply	Watts	r/min	dBA @ 3m
SM100	230V/1Ph/50Hz	15	2500	41
SM125	230V/1Ph/50Hz	20	2450	43
SM150	230V/1Ph/50Hz	25	2100	45

Code	A	B	C	Weight kg
SM100	97	92	60	1.0
SM125	118	106	65	1.2
SM150	148	108	74	1.5



### 1.1. GENERAL

- 1.2. It is important these Installation and Maintenance Instructions are fully adhered to.
- 1.3. Full details of the unit supplied are shown on the product nameplate. If in doubt about any detail contact Elta Fans Ltd or its agents for clarification.
- 1.4. All electrical installation must be carried out by suitably qualified and competent  
1.4.1. personnel in accordance with all current statutory requirements.
- 1.5. These instructions cover only the Elta Fans Ltd product and do not include the supply or  
1.5.1. installation of any safety equipment that may be required e.g. adequate guarding or  
1.5.2. protection from rotating parts and proper electrical isolation.

- 1.6. Any declarations made by Elta Fans Ltd about product installation and safety, are
  - 1.6.1. dependant on the fan equipment being used within installations which themselves
  - 1.6.2. meet the requirements of the relevant Standards and Directives of your region.
- 1.7. The fan is designed for use in an ambient temperature of up to +40°C and up to 95% relative humidity. The fan is not suitable for corrosive or explosive atmospheres.
- 1.8. The installer should provide easy access to the fan to facilitate future maintenance.
- 1.9. The installer should ensure the fan is adequately supported.
- 1.10. This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.
  - 1.10.1. Children should be supervised to ensure that they do not play with the product.

## 2.0 THE RANGE

- 2.1. SM100, SM125, SM150 - standard version - should be operated by a remote switch
- 2.2. SM100T, SM125T, SM150T - with adjustable over run timer - this fan should be operated by a remote switch which can also be used to control the room light. After the light/fan is switched off the fan will continue to run for the pre-set length of time. The over run on the timer can be adjusted from 3 minutes to a maximum of 15 minutes, by disconnecting the power supply removing the cover from the bracket and by turning the trimmer on the board in a clockwise direction. To reduce the overrun time, turn the trimmer in an anti-clockwise direction

## 3.0 INSTALLATION

**WARNING – The fan must be isolated from the power supply during installation and maintenance. The fan is double insulated and does not require an earth connection.**

- 3.1. Upon receipt, the fan equipment should be visually inspected to check for any damage. Ensure that the impeller is free to rotate.
- 3.2. If there are any queries concerning the fan equipment, Elta Fans Ltd should be contacted prior to the installation.
- 3.3. The fan is designed for in - duct mounting in the desired position to suit the application.
- 3.4. Check the details on the motor rating plate to ensure that the correct power supply (voltage, frequency and phase) is available.
  - 3.4.1. An incorrect power supply will lead to permanent damage to the fan motor.
- 3.5. Refer to the appropriate wiring diagram.
- 3.6. Means for electrical disconnection must be incorporated in the wiring installation in accordance with the relevant wiring and electrical regulations.
- 3.7. Precaution must be taken to locate the exhaust discharge terminal so as to avoid the backflow of gases into the room from the open flue of gas or other fuel burning appliances.

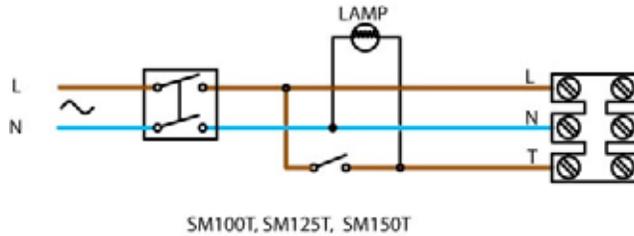
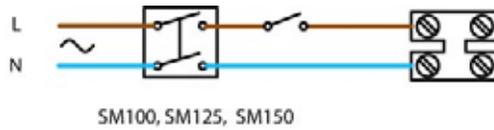
## 4.0 START-UP

- 4.1. Before power is supplied to the unit, check that the wiring is correct as per the fan connection diagram.
- 4.2. At initial start-up, check that impeller rotation and airflow direction is correct.
- 4.3. Check that the motor amperage draw does not exceed the nameplate rating.

## 5.0 FAN MAINTENANCE

- 5.1. Inspection of the fan at least once every 12 months is recommended to ensure that the motor, fan blades, and supporting guards, are clean. Any build up of dust and deposits on the blades or guards should be removed using a non-abrasive cleaner.
- 5.2. All fastenings should be checked for tightness. In addition, all rotating items should be checked.
- 5.3. Bearings are of the 'sealed for life' type and will not need a detailed inspection.

## WIRING



## GUARANTEE

Elta Fans Ltd will, free of charge, within a period of 2 years from the date of despatch from their works, repair or at its option replace any goods which are proved to have defects as a result of defective materials or workmanship. The goods **MUST** be returned to Elta Fans Ltd carriage paid for examination.

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