

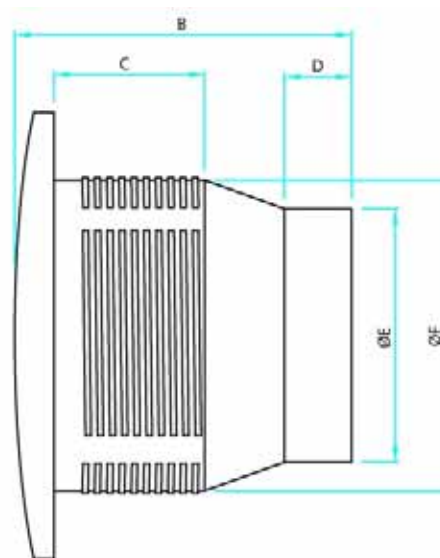
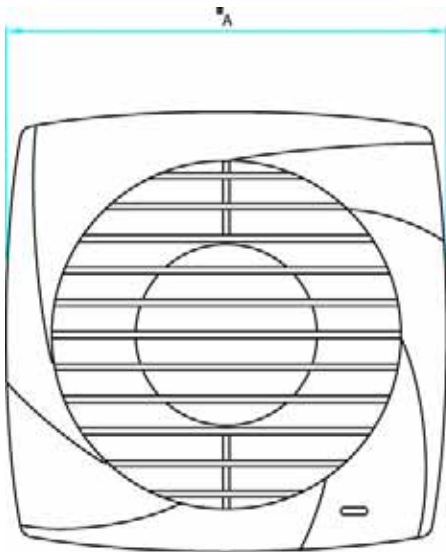


# Industrial Wall Fan SCE/SCE LV Installation and Maintenance Instructions

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

Code	Supply	Watts	r/min	dBA @ 3m
SCE100	230V/1Ph/50Hz	30	2100	49
SCE100LV	12V	30	2100	49

Code	A	B	C	D	E	F	Weight kg
SCE100	190	130	58	26	98	148	2.0
SCE100LV	190	130	58	26	98	148	2.0



## 1.0 GENERAL

- 1.1. It is important these Installation and Maintenance Instructions are fully adhered to.
- 1.2. 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.
- 1.3. All electrical installation must be carried out by suitably qualified and competent personnel in accordance with all current statutory requirements.

- 1.4. These instructions cover only the Elta Fans Ltd product and do not include the supply or installation of any safety equipment that may be required e.g. adequate guarding or protection from rotating parts and proper electrical isolation.
- 1.5. Any declarations made by Elta Fans Ltd about product installation and safety, are dependant on the fan equipment being used within installations which themselves meet the requirements of the relevant Standards and Directives of your region.
- 1.6. 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.
- 1.7. The installer should provide easy access to the fan to facilitate future maintenance.
- 1.8. The installer should ensure the fan is adequately supported.
- 1.9. 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. Children should be supervised to ensure that they do not play with the product.

## 2.0 THE RANGE

- 2.1. SCE100, SCE100LV - standard versions - should be operated by a remote switch
- 2.2. SCE100T, SCE100TLV - with adjustable overrun timer - these fans should be operated by a remote switch which can also be used to control the room light. After the light is switched off the fan will continue to run for the pre-set length of time.
- 2.3. SCE100H, SCE100HLV - with humidistat and timer - the adjustable electronic humidistat is preset so that the fan will operate automatically when the moisture content in the room reaches 70% R.H. The fan will continue to operate until the Relative Humidity falls below the pre-set level and the timer has completed the overrun period. The fan can be operated by the pull cord (or by a remote switch) independently of the humidistat (a neon light indicates that the fan is operating in this mode). NOTE: The fan will continue to operate for a short period after the cord is pulled a second time, i.e. until the humidistat senses that the relative humidity in the room has fallen beneath the pre-set level, and the timer has completed its overrun period.
- 2.4. All versions with "LV" are LOW VOLTAGE (SELV). They MUST be installed with the transformer provided.
- 2.5. All versions with Timer or Humidistat Incorporate adjustable trimmers; the overrun period on the timer can be adjusted upwards by turning the RED trimmer on the pc board in a clockwise direction (from a minimum of 3 min to a maximum of 15 min). The Humidistat can be adjusted so that it starts to operate at a higher level of relative humidity by turning the BLUE trimmer in a clockwise direction (from a minimum of 40% to a maximum of 100%).
- 2.6. All versions with Humidistat incorporate a controlled temperature set-back allowing the humidistat to take into account variations in the ambient temperature and to avoid the fan switching on unnecessarily. This reduces fan operation at night.
- 2.7. All the fans (with the exception of the "LV" models) are splash proof to standard IPX4. The "LV" fans are rated IP57 enabling them to be safely installed in areas where a splash proof fan does not provide sufficient protection against water ingress.
- 2.8. All the fans are extremely quiet in operation.

## 3.0 GENERAL INSTALLATION

### **3.1.1.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.**

- 3.2. Upon receipt, the fan equipment should be visually inspected to check for any damage. Ensure that the impeller is free to rotate.
- 3.3. If there are any queries concerning the fan equipment, Elta Fans Ltd should be contacted prior to the installation.
- 3.4. The fan is designed for wall, ceiling or window mounting in the desired position to suit the application.
- 3.5. Check the details on the motor rating plate to ensure that the correct power supply (voltage, frequency and phase) is available.

- 3.6. An incorrect power supply will lead to permanent damage to the fan motor.
- 3.7. Refer to the appropriate wiring diagram.
- 3.8. Means for electrical disconnection must be incorporated in the wiring installation in accordance with the relevant wiring and electrical regulations.
- 3.9. The printed circuit board in these fans has been protected to make it compatible with the majority of fluorescent fittings available on the market today. However, it is impossible to be aware of all the new products introduced. We suggest therefore that you contact your supplier to establish the compatibility of the fluorescent fitting you intend to use.
- 3.10. 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 CEILING MOUNTING INSTALLATION (WITH CEILING RING)**

- 4.1. Remove the front cover of the fan by loosening the screw on the underside of the base and depressing, with a screwdriver, the catch next to the crew take the cover of from the bottom.
- 4.2. Remove the cable entry knockout.
- 4.3. Cut a 148 mm - 150 mm (5.85" - 5.95") hole in the ceiling (plus thickness of ducting to be used, when necessary), ensuring that the surface on which the fan is to be fitted is smooth and level. Ensure that the cable is correctly located with the cable entry point of the fan. Place the fan in the hole in the ceiling and use the ceiling ring (optional) to fix in place by screwing the ring onto the threaded spigot of the fan.
- 4.4. Connect the ducting to the outlet spigot (either 100 mm or 150 mm ducting can be used) ensuring that the back draught shutter is free to open. Connect the incoming supply as indicated by the wiring diagram and replace the front cover.

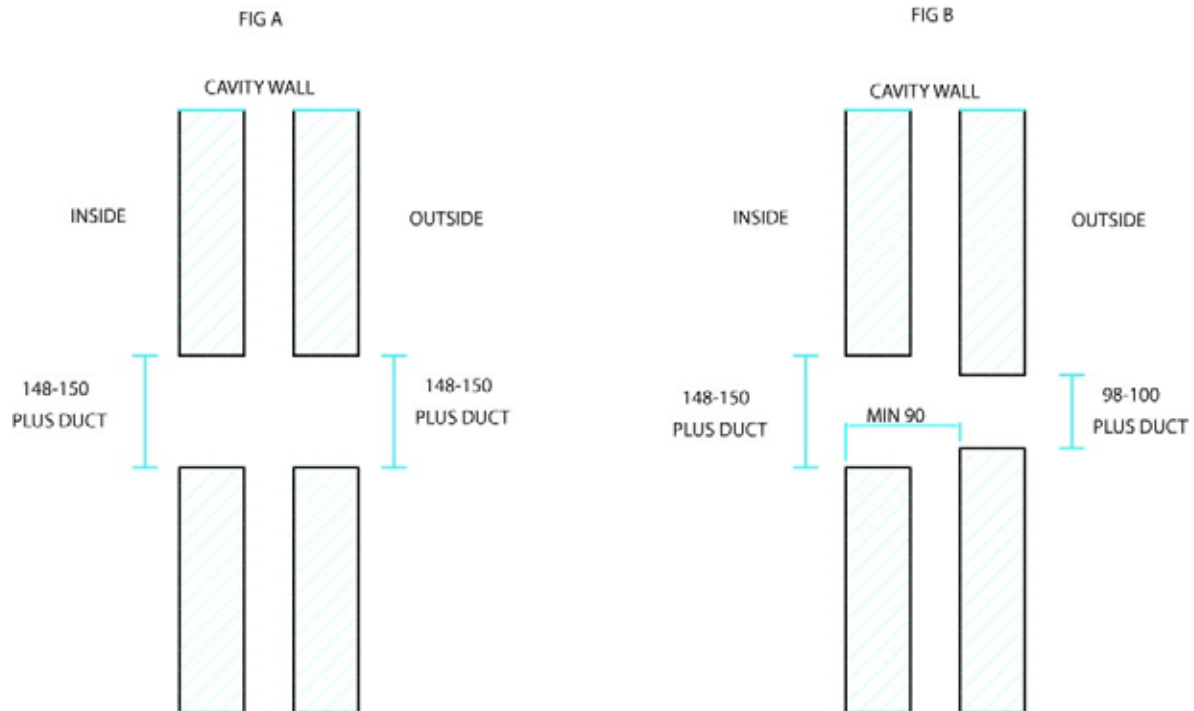
#### **5.0 CEILING MOUNTING INSTALLATION (WITH FIXING SCREWS)**

- 5.1. Remove the front cover of the fan by loosening the screw on the underside of the base and depressing, with a screwdriver, the catch next to the crew take the cover of from the bottom.
- 5.2. Remove the cable entry knockout.
- 5.3. Cut a 148 mm - 150 mm (5.85" - 5.95") hole in the ceiling (plus thickness of ducting to be used, when necessary), ensuring that the surface on which the fan is to be fitted is smooth and level. Using the body of the Fan as a template, mark 4 holes in the ceiling, drill and fit wall plugs.
- 5.4. Ensure that the cable is correctly located with the cable entry point of the fan. Fix the main body of the fan to the ceiling using 4 screws locating them through the holes at each corner.
- 5.5. Connect the ducting to the outlet spigot (either 100 mm or 150 mm ducting can be used) ensuring that the back draught shutter is free to open. Connect the incoming supply as indicated by the wiring diagram and replace the front cover.

#### **6.0 CAVITY WALL MOUNTING INSTALLATION**

- 6.1. Remove the front cover of the fan by loosening the screw on the underside of the base and depressing, with a screwdriver, the catch next to the crew take the cover of from the bottom.
- 6.2. Remove the cable entry knockout.
- 6.3. The fan can be installed in two different ways:  
OPTION A: using 150mm duct through both walls  
OPTION B: using 100mm duct in outer wall only
- 6.4. OPTION A: Cut a 148 mm - 150 mm (5.85" - 5.95" plus thickness of ducting to be used) hole in the inside and in the outside wall (FIG A)
- 6.5. OPTION B: Cut a 148 mm - 150 mm hole in the inside wall and a 98 mm - 100 mm (plus thickness of ducting to be used) hole in the outside wall. NOTE: the thickness of the inside wall plus the cavity must be at least 90mm. (FIG B)
- 6.6. Install ductwork.
- 6.7. Using the body of the Fan as a template, mark 4 holes in the wall, drill and fit wall plugs.
- 6.8. Ensure that the cable is correctly located with the cable entry point of the fan. Fix the main body of the fan to the wall using 4 screws locating them through the holes at each corner.

- 6.9. Connect the ducting to the outlet spigot ensuring that the back draught shutter is free to open. Connect the incoming supply as indicated by the wiring diagram and replace the front cover.



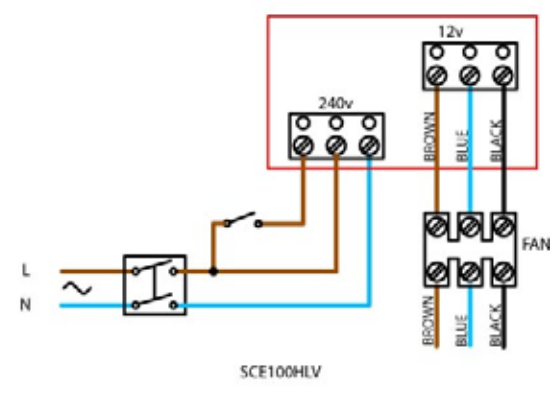
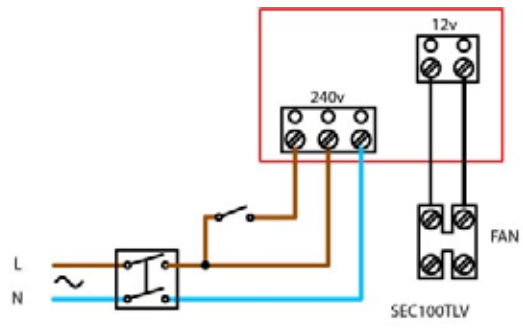
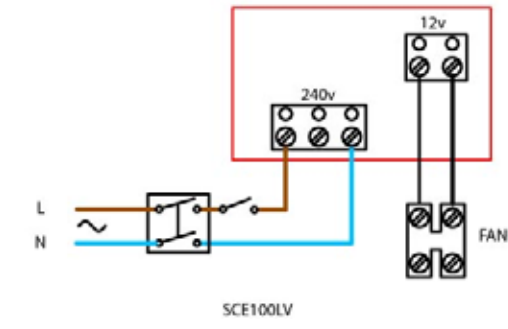
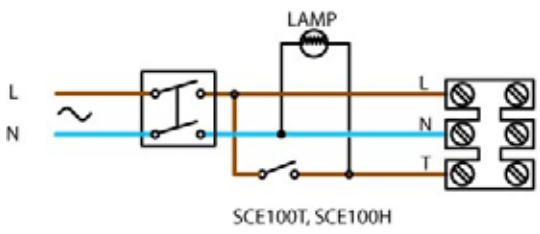
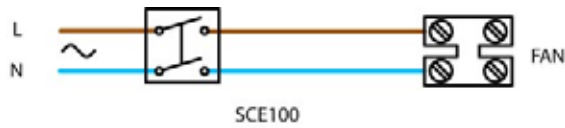
## 7.0 START-UP

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

## 8.0 FAN MAINTENANCE

- 8.1. 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.
- 8.2. All fastenings should be checked for tightness. In addition, all rotating items should be checked.
- 8.3. 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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