

### Dimplex Wall-mounted Fan Convector Model : WFE 3TNB and WFE 3TNS

**B E A B**  
 Approved

08/18748/1

Issue 1

#### Dimensions

##### Model(s) Specification

WFE 3TNB	3Kw Thermostat, Switch, 24Hr Timer - Black
WFE 3TNS	3Kw Thermostat, Switch, 24Hr Timer - Silver

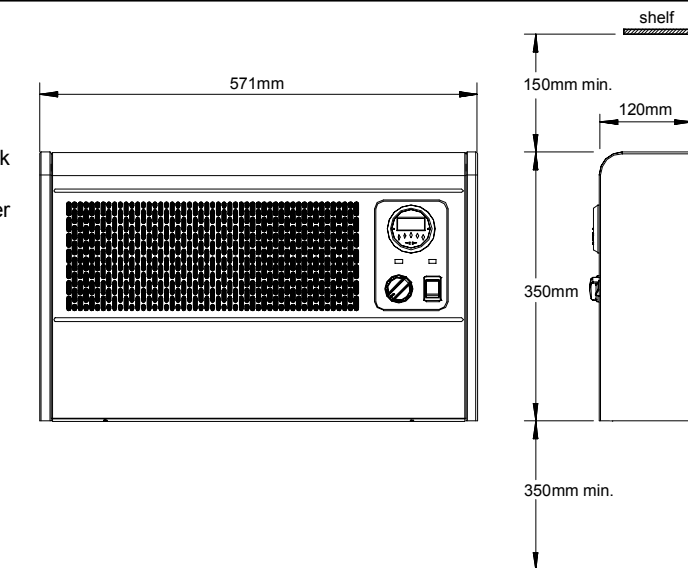


Fig. 1

THESE INSTRUCTIONS SHOULD BE READ CAREFULLY AND RETAINED FOR FUTURE REFERENCE.

#### IMPORTANT SAFETY ADVICE

- **WARNING – THIS APPLIANCE MUST NOT BE USED IN A BATHROOM.**
- **WARNING – DO NOT USE THIS HEATER IN THE IMMEDIATE SURROUNDINGS OF A BATH, A SHOWER OR A SWIMMING POOL.**
- **WARNING – THIS HEATER MUST NOT BE LOCATED IMMEDIATELY ABOVE OR BELOW A FIXED SOCKET OUTLET.**
- **DO NOT USE THE HEATER UNTIL IT IS WALL MOUNTED CORRECTLY.**
- The heater carries a warning 'Do Not Cover' to alert the user to the risk of overheating that exists if the heater is accidentally covered.
- **Keep combustible materials such as drapes and other furnishings clear from the front of the heater. Do not use heater to dry your laundry.**
- **NEVER cover or obstruct in any way the air inlet slots at the front of the heater or the heat outlet slots in the base of the heater.**
- If young children, the aged, or infirm are likely to be left in the vicinity of the heater, we advise that adequate precautions should be taken. We recommend that a guard be fitted to ensure contact with the heater is avoided and objects cannot be inserted into the product.
- If you use this heater in conjunction with a thermal control, a programme controller, a timer or any other device which switches on the heater automatically, remember to observe all safety warnings at all times.
- Do not use where excessive dust or moisture is present.

For further information, please contact our guard supplier direct on Tel. No. 01603 667957, or in the case of difficulty or for further advice contact our Customer Helpline.

#### Installation

**Before undertaking installation work, ensure the electricity supply is disconnected from any relevant fixed wiring.**

Supply cable is not provided with this appliance, and a competent electrician should therefore install it.

The appliance must be fitted horizontally with the cable or conduit entry at bottom right. It should be mounted such that the underside is at least 350mm above the floor and the top of the heater is 150mm below any overhanging shelf or obstruction.

**This heater must be used on an A.C. ~ supply only and the voltage marked on the heater must correspond to the supply voltage.**


To comply with the I.E.E. Wiring Regulations, the appliance must be earthed; the supply circuit must be adequate for the input of the appliance, and the circuit protected by a suitable 13A fuse. A suitable termination to the fixed wiring of the premises must be provided adjacent to the final position of the appliance. In this instance, such termination can be a double-pole switch with a contact separation of at least 3mm in all poles.

**The heater must not be located immediately below a socket-outlet.**

#### Electrical

**WARNING : THIS APPLIANCE MUST BE EARTHED.**

After ensuring the electricity supply is not live, electrical connections can be made, either to an adjacent double-pole switch having a contact separation of at least 3mm in all poles or to a plug-top for use in a standard 13A socket.

If the latter: Connect **Green and Yellow** wire to plug terminal marked 'E' or  **Green or Green and Yellow**. Connect **Blue** wire to plug terminal marked 'N' or **Black**. Connect **Brown** wire to plug terminal marked 'L' or **Red**.

Refit cover, first hooking top over the unit and then securing bottom by refitting the two screws under the bottom edge. The appliance is now ready for use and the electricity supply can be reinstated.

## Fixing dimensions

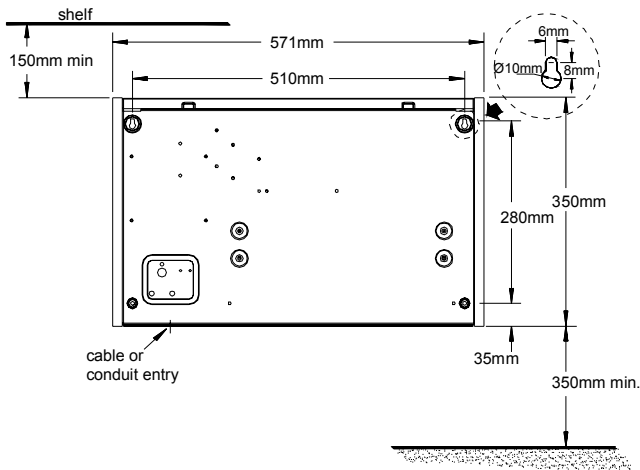


Fig. 2

## Procedure

Release the front cover from the unit by undoing the two screws under the bottom edge.

Carefully remove cover by pulling bottom-front forward, and then lift to release top from retaining slots.

Mark screw fixing positions on wall in accordance with the dimensions shown on the diagram in Fig. 2. The unit must be secured to the wall with four screws through the holes provided. The two upper holes are keyhole shaped to enable the two upper screws to be positioned first. The unit can then be hung on these screws while the two lower screws are positioned. Before finally tightening all four screws, ensure the unit is truly horizontal.

Fit a 3 core 1.5 square millimetre flexible cord through the cable entry bush, connect wires to the appropriate terminals and tighten cable clamp. Alternatively the heater may be connected with conduit through the base after removing the knockout containing the cable entry bush (see Fig. 3 Wiring Diagram).

## Wiring Diagram

Component	Wires	
A. Cross Flow Fan	1,2	Grey 0.75mm <sup>2</sup> PVC.
B. Heat Element	3	White 1.5mm <sup>2</sup> SRIW
C. Cut-Out	4,8,10	Blue 1.5mm <sup>2</sup> SRIW
D. Electronic Stat	6,9,11	Red 1.5mm <sup>2</sup> SRIW
E. Temperature Selector	5,12	Pink 1.0mm <sup>2</sup> SRIW
F. Digital Timer		
G. Double Pole Switch		
H. Tri-Clamp T/Block		
J. Cable Clamp		
K. Thermistor		

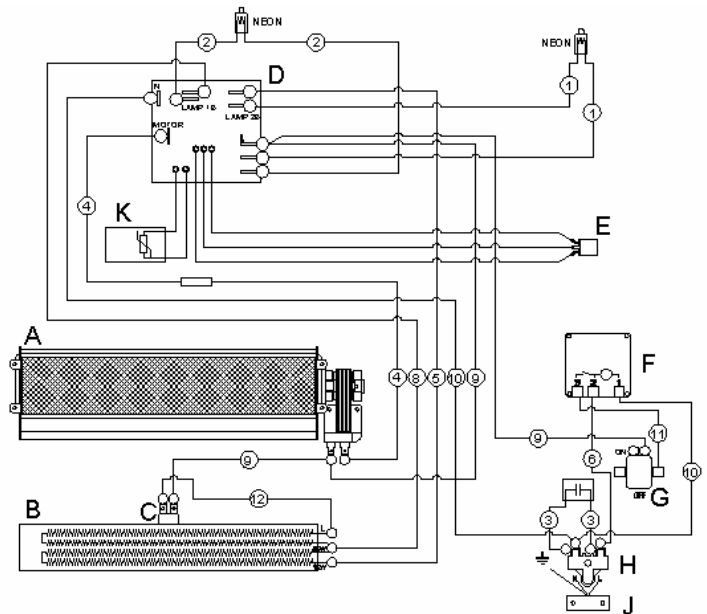


Fig. 3

## Operation

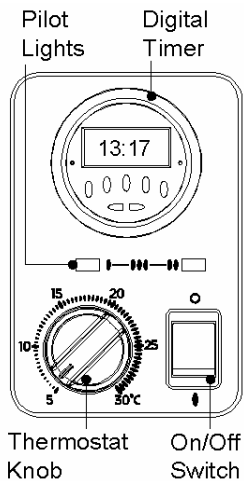


Fig. 4 - Controls & Control Panel Layout

The WFE3TN has a total loading of 3KW. It incorporates a sensitive electronic thermostat, and a programmable 24 hour timer. To switch the appliance ON, it should be connected to the electricity supply and switched on at the ON/OFF double pole switch – see Fig. 4.

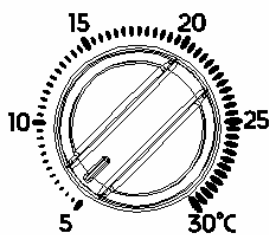


Fig. 5 Thermostat Knob

### Thermostat

The thermostat scale is calibrated in 1°C divisions with a temperature range from 5°C to 30°C.

To control the room temperature, set the mark on the thermostat knob to the required temperature on the scale. The electronic sensor will monitor continuously the temperature of the air returning to the inlet grille, and the appropriate heater element(s) will be selected automatically to achieve or maintain the chosen level. Two pilot lights indicate when one or both heating elements are in operation. An additional pilot light on the digital timer will illuminate when the timer is in 'Manual On' mode or in 'Auto' mode with a program running. The extra sensitivity of the electronic thermostat ensures that the room temperature is maintained within close tolerances efficiently and economically.

## Digital Timer Operation

### IMPORTANT

**DO NOT plug in the appliance where the load exceeds 16 Amp.**

The timer has a total of 8 ON/OFF programs. MANUAL ON/AUTO/MANUAL OFF can make settings as required very easily.

Either 12 or 24 hour modes can be used.

Summertime function is very useful for areas with summertime system.

16 combinations of days or blocks of days are available for this Timer.

For details on different combinations see below :

- 1) Mo
- 2) Tu
- 3) We
- 4) Th
- 5) Fr
- 6) Sa
- 7) Su
- 8) Mo, Tu, We, Th, Fr, Sa, Su
- 9) Mo, Tu, We, Th, Fr
- 10) Sa, Su
- 11) Mo, Tu, We, Th, Fr, Sa
- 12) Mo, We, Fri
- 13) Tu, Th, Sa
- 14) Mo, Tu, We
- 15) Th, Fri, Sa
- 16) Mo, We, Fr, Su

## Initial Operation

1. On initial operation the timer display may appear faint or blank- this is not a fault. The timer's back up battery has discharged. Leave the appliance powered on for 15 minutes to initially charge the battery.
2. Press the **R** button with a sharp object such as a pencil (pressing the **R** will also clear all current information). The timer is now ready to be set up for use.

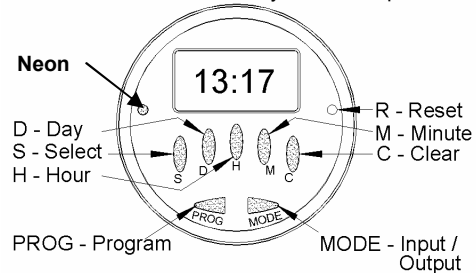


Fig. 6

### Setting Current Time

1. Press the **S** (Set) button and keep pressed while pressing the **D** (Day) button until the actual day is displayed. Continue by pressing **H** (Hour) or **M** (Minute) button until the current hour or minute is displayed. When resetting, the buttons **D**, **H** or **M** can be held down for rapid forward counting.
2. Release both buttons. The week and time will be set.
3. To reset incorrect time, repeat previous steps.

### Setting Programs

1. Press the **PROG** (Program) button and release. The first **ON** setting can be made now.
2. Press the **D** (Day) button to set the day or blocks of days. Set the time by pressing the **H** (Hour) button and then **M** (Minute) button.
3. Press the **PROG** (Program) button again to finish the first **ON** setting and enter into the first **OFF** setting. By repeating '2' this will make the first **OFF** setting.
4. Press the **PROG** (Program) button again to finish the first **OFF** setting and enter into the 2<sup>nd</sup> **ON** setting. Repeat '2' and '3' to program remaining settings.
5. After completing settings, press the **S** (Set) button and the Timer is ready to operate.

**EXAMPLE :** To set Timer **ON** at 6:15PM (18:15) and Timer **OFF** at 10:15PM (22:15) everyday

- a) Press **PROG** and LCD displays **'1\_ON'**
- b) Press **D** until LCD displays **'MO, TU, WE, TH, FR, SA, SU'**
- c) Press **H** until LCD displays **'6:00PM' or '18:00'**
- d) Press **M** until LCD displays **'6:15PM' or '18:15'**
- e) Press **PROG** and LCD displays **'1\_OFF'**
- f) Repeat c) and d) until LCD displays **'10:15PM or 22:15'**

**TIP :** When verifying your programs ensure that the settings do not overlap, especially when using the block option.

**TIP :** To clear a section in a Program, press the **C** (Clear) button. To reactivate this section press the **C** button again.

### Manual ON/Auto/Manual OFF Setting

1. Press **MODE** (Input/Output) button to change between **Manual ON / Auto / Manual OFF**.
2. In **Manual ON** or **Manual OFF** mode, the Timer doesn't operate as the settings are in the **Auto** mode.
3. To return from **Manual ON** to **Auto**, press **MODE** three times (i.e. - Auto/Manual Off/Auto) .

Note: If **MODE** is pressed once from **Manual On** to **Auto** the timer will keep the setting of **Manual** until the next timer setting.

### 12/24 Hour Mode

Press the **S** (Set) and **PROG** (Program) buttons simultaneously to switch between 12 and 24 Hour mode.

### Summertime Function

1. Press the **S** (Set) and **MODE** (Input/Output) buttons simultaneously. The LCD will show **SUMMER**. The clock will keep ahead one hour. Press them again and it will revert.

## General Cleaning

### WARNING :

**BEFORE UNDERTAKING ANY MAINTENANCE OR CLEANING WORK ON THE APPLIANCE, IMMEDIATELY DISCONNECT THE ELECTRICITY SUPPLY EITHER BY SWITCHING OFF AT THE ADJACENT DOUBLE POLE SWITCH OR BY REMOVING THE PLUG FROM THE SOCKET.**

The outside of the appliance should be wiped over with a soft damp cloth and then dried. Do not use detergents or abrasives.

The filter should be cleaned by gently passing the soft brush attachment of a vacuum cleaner over the front grille.

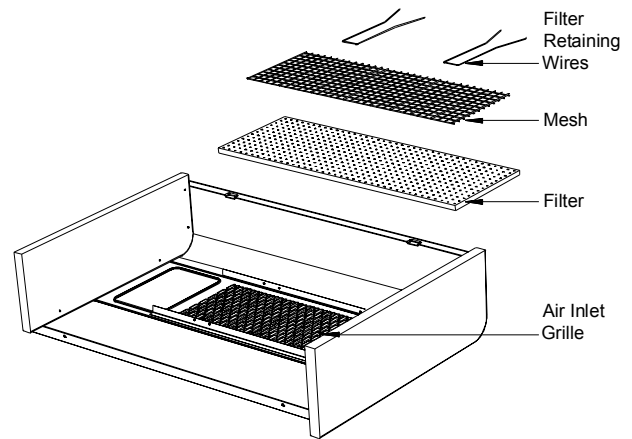


Fig. 7

## Service and Repair

**THE INTERNAL CLEANING AND MAINTENANCE WORK SHOULD ONLY BE UNDERTAKEN BY COMPETENT PERSONS WITH EXPERIENCE OF REPAIRING DOMESTIC ELECTRICAL APPLIANCES AND IN FULL KNOWLEDGE OF THE POSSIBLE HAZARDS INVOLVED.**

To ensure the appliance operates efficiently, the following maintenance should be undertaken periodically. The cover should be removed and refitted as detailed under 'Procedure'.

- **Fan Blades** : These should be cleaned by using the soft brush attachment of a vacuum cleaner. Care should be taken not to damage the blades.
- **Filter** : The filter can be removed completely for cleaning, but generally, provided this is cleaned frequently as detailed above, this should not be necessary. Where removal of filter is required for cleaning, the filter retaining wires can be removed, allowing the mesh and the filter to be taken out (see Fig. 7).
- **General** : With the cover removed, opportunity should be taken to remove any accumulations of dust from within the unit.
- **Bearings** : Fan and motor bearings should be given one or two (not more) drops of low viscosity oil (e.g. sewing machine oil) approximately every 12 months.

## After Sales Service

Your Dimplex Wall-mounted Fan Convactor is guaranteed for one year from date of purchase. We undertake to repair or exchange free of charge within this period, any part found to be defective due to a manufacturing fault.

Your rights under this guarantee are additional to your statutory rights, which in turn are not affected by this guarantee.

Should you require after sales service, please get in touch with the retailer through whom you purchased the appliance, or contact our Customer Helpline.

Please do not initially return a faulty appliance or part of an appliance to us as this may result in transit damage and/or delay in providing service. Let us know your difficulty quoting the model number and series of the appliance. We will then take the appropriate action.

Guarantee only valid in the UK or Republic of Ireland where purchased.

Please retain receipt as proof of purchase.



The product complies with the European Safety Standards EN60335-2-30 and the European Standard Electromagnetic Compatibility (EMC) EN55014, EN60555-2 and EN60555-3 which cover the essential requirements of EEC Directives 73/23 and 89/336

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