

### Dimplex Convector Heater Models : 402E



08/52811/0 Issue 1

Intertek

#### Dimensions (Millimetres)

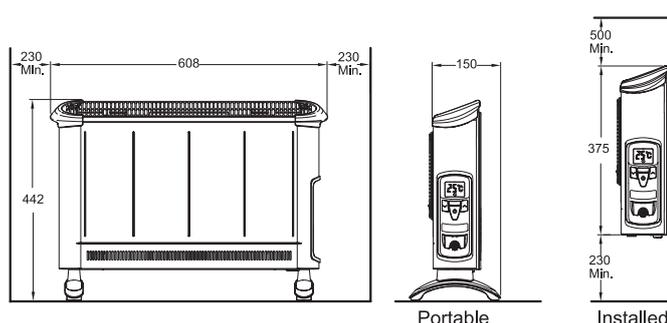


Fig. 1

**IMPORTANT : 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 below a fixed socket outlet.

 The heater carries a warning symbol to alert the user to the risk of fire that exists if the heater is accidentally covered.

**WARNING:** In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience or knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Children of less than 3 years should be kept away unless continuously supervised. Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.

**CAUTION:** Some parts of this product can become very hot and cause burns. Particular

attention has to be given where children and vulnerable people are present.

If the mains lead is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

#### Electrical connection

##### WARNING – THIS APPLIANCE MUST BE EARTHED

The use of an extension lead or multi-plug adaptor is not advised when connecting this product to the mains. Connection through these devices could lead to a risk of overloading, overheating and even fire at the extension lead or adaptor due to inadequate connection quality.

This heater must be used on an ~ supply only and the voltage marked on the heater must correspond to the supply voltage. This heater is fitted with a rewirable plug incorporating a 13 amp fuse. In the event of replacing the fuse in the plug supplied, a 13 amp fuse approved by ASTA to BS 1362 must be used. If any other type of plug is used, a 15 amp fuse must be fitted in the plug, the adaptor, or at the distribution board.

**IMPORTANT :** If the plug is not suitable for your socket, the 13 amp plug should be removed. Before wiring the appropriate plug, please note that the wires in this mains lead are coloured in accordance with the following code :

<b>GREEN AND YELLOW:</b>	<b>EARTH</b>
<b>BLUE :</b>	<b>NEUTRAL</b>
<b>BROWN :</b>	<b>LIVE</b>

Connect the **GREEN AND YELLOW** wire to the terminal marked 'E' or by the earth symbol (⊕), or coloured **GREEN** or **GREEN AND YELLOW**.  
Connect the **BROWN** wire to the terminal marked 'L' or coloured **RED**.  
Connect the **BLUE** wire to the terminal marked 'N' or coloured **BLACK**.

#### Using the heater

**WARNING: DO NOT USE THE HEATER UNTIL THE FEET OR WALL BRACKETS ARE FITTED CORRECTLY.**

The product can be used as an installed or portable unit. Once the desired application has been decided upon and the requirements below have been met the product is ready to be used. Simply plug in and switch on at the wall socket.

Please note – the element has been coated with a protective film which will burn off during the first few minutes of use and may cause a small amount of fuming. This is quite normal – the fumes are non-toxic and will quickly disappear.

We recommend that you open a window to ventilate the room when using the heater for the first time.

#### Positioning the heater

Always ensure that the heater is stood on a firm, level base near to, but not directly beneath, a suitable mains supply socket.

Ensure that curtains and furniture are not positioned close to the chosen position, as this would create a potential fire hazard.

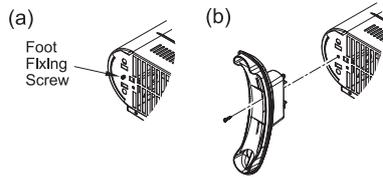
We recommend that the heater should be wall-mounted in rooms where children may be left unattended, see 'Important Safety Advice'.

## Portable use

**WARNING: THE HEATER SHOULD NEVER BE USED AS A PORTABLE APPLIANCE WITHOUT THE FEET SECURELY FITTED.**

Lay the heater on its back and remove the wall mounting brackets - see **Wall mounting**. Locate and remove the foot fixing screw - see **Fig. 2(a)**. Clip the foot in place and secure using the foot fixing screw.

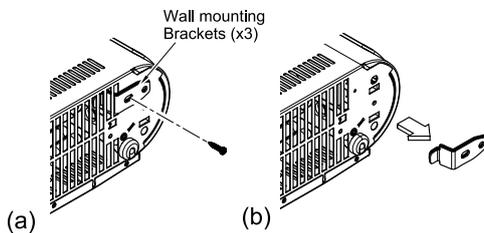
NOTE – The wall mounting brackets must be removed before the foot can be fitted.



**Fig. 2**

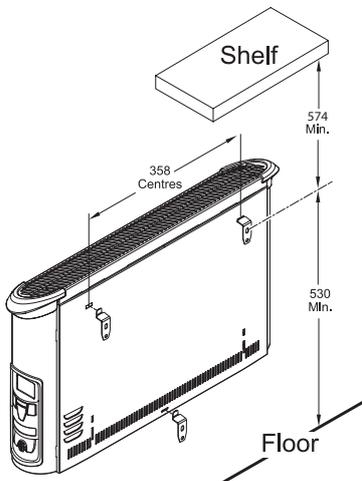
## Wall Mounting (Installed)

Three identical wall mounting brackets are secured to the base of the heater with a fixing screw. To wall mount appliance, first remove the brackets as follows, lay the heater on its back and follow the sequence shown - see **Fig. 3**. Identify and remove the fixing screw securing the brackets located beside mains cable as shown in (a), pull out brackets and rotate them to disengage them from the slot and withdraw the brackets from the slot (b).



**Fig. 3**

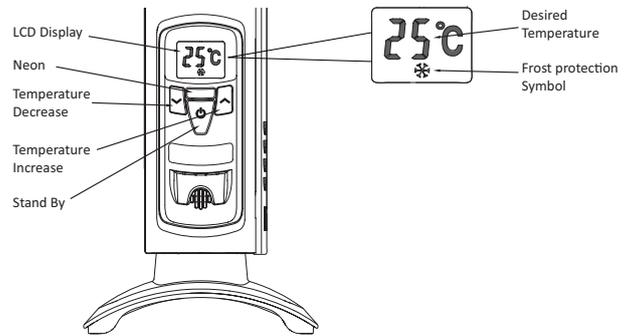
Select a suitable position, near to a mains power socket whilst ensuring the minimum mounting clearances are maintained - see **Fig. 1**. Fix the two top retaining brackets to the wall, using suitable fixings – see **Fig. 4**.



**Fig. 4**

Locate the heater on the top brackets and allow it to hang in place. Fit the bottom bracket into the slot in the heater and then fix it to the wall. Test that the heater is now securely fixed to the wall.

## Controls



**Fig. 5**

## Operating the Heater - 'Control Mode'

With the product plugged in, press the "⏻" button. This will illuminate the neon and also light up the LCD display. This indicates that the product is in control mode, the desired room temperature can then be set.

## Setting the 'Desired' Room Temperature

The temperature is set using the temperature increase '⏶' and temperature decrease '⏷' keys - see **Fig. 5**. The room temperature can be set in the range between 5°C to 30°C. The back light of the LCD will change colour depending on the desired room temperature. (Blue screen 5 to 16, 17 to 19 green, 20 to 22 white, 23- 30 red). Please note the temperature setting is for desired room temperature (not the actual room temperature).

## 'Intelligent' Eco Mode

This is the appliance default setting, the appliance will automatically start up in this setting once power is applied and the standby key is pressed. The LCD display will indicate the desired room temperature and the appliance will automatically regulate the room temperature accordingly. In this mode the appliance operates at full power, however the output of the appliance is automatically reduced and regulated as the room temperature approaches the desired level. This mode optimises energy use by calculating the most efficient and effective way to achieve the desired temperature setting. The desired room temperature can be adjusted at any time during operation by pressing the appropriate key.

## Standby Mode

With the heater ON if the "⏻" button is pressed, the heater will go into standby mode, the heater switches off and the display will go blank. On pressing the "⏻" button again the heater will come on in the with the desired room temperature settings it had prior to going into standby mode.

Note: the mains on 'Neon' will remain illuminated when the appliance is in standby mode.

## LCD Display

The LCD display shows the desired room temperature. When the appliance is set to frost protection mode (5°C) the frost protection symbol '\*❄\*' will be displayed on the screen.

The colour of the display backlight will vary depending on the desired temperature set (see notes above under 'Setting the desired room temperature'). The backlight will switch off a short period after the last key press. Any additional key presses will re-illuminate the screen.

## Indicator Neon

The control contains an indicator neon. This neon comes on to indicate when the product is in 'control mode'. This neon does not indicate if the heat is on, if the room temperature is at the desired temperature then the heat will be off but the control is still operating, the neon will remain on.

When the delayed start function is activated the neon will blink intermittently to indicate the product is in delayed start mode. Once the delayed start period has elapsed the neon will switch on to indicate the product is in control mode.

## Frost Protection Mode

The appliance has a frost protection mode. This setting is useful in areas such as garages to assist in the prevention of frost damage. If the thermostat is set to its minimum setting '5°C', the heater will cycle ON and OFF to maintain a temperature of approximately 5°C and help protect against frost conditions. The frost protection symbol '\*❄\*' will be displayed on the LCD display when frost protection mode is activated.

## Runback Timer Mode

When the appliance is in Control mode and the  and  buttons are simultaneously pressed for more than 2 seconds the appliance shall enter a 'Runback' configuration menu.

The 'Runback' mode will allow the appliance to run, from now, for a pre-set time. After this time has expired the appliance shall enter Standby mode and the Runback timer shall clear to zero (no subsequent Runback). Keeping the buttons pressed the display will indicate the number of hours the Run Back time shall be enabled, from 1 through to 12. Fig. 6 below shows an example of a two hour Runback. After 12 the timer shall roll over to 1 and then increment through to 12 again. The time shall increment for every 2 seconds that the buttons are simultaneously pressed. When one or both buttons are released it shall be assumed that the Run Back time has been selected. Both buttons must be released before any other button operations are allowed. The Run Back function shall not be maintained if mains power is removed and reapplied.

The Runback function shall use the maximum power as defined using the  button sequence and the Set Point active prior to entering Run Back mode. The temperature Set Point may be changed by pressing the  or  buttons while in Run Back Mode. The display shall flash On and Off every 5 seconds showing the hours remaining in Runback mode, until the Runback time has expired, then the display shall be turned off (appliance enters Standby Mode). Please note only hours will be displayed not part of hours i.e. minutes

## Delayed Start Mode

When the appliance is in Control mode and the  and  buttons are simultaneously pressed for more than 2 seconds the appliance shall enter a 'Delayed Start' configuration menu.

The 'Delayed Start' mode will allow the appliance to turn ON after a pre-set time. After this time has expired the appliance will turn ON and control about the set point. The appliance shall stay ON until the mains power is toggled or the  button is pressed to place the unit in Standby.

Keeping the buttons pressed the display will indicate the number of hours the Start Timer shall delay the appliance entering operation, from 1 through to 12. After 12 the timer shall roll over to 1 and then increment through to 12 again. The time shall increment for every 2 seconds that the buttons are simultaneously pressed. When one or both buttons are released it shall be assumed that the Delayed Start time has been selected. Both buttons must be released before any other button operations are allowed.

To indicate that the Delayed Start Timer function has been enabled the Neon shall blink intermittently once every 10 seconds.

The Delayed Start time shall be cleared to zero when the  button is pressed, the Delayed Start timer expires or if mains power is removed. The LCD display will display the Hours remaining in Delayed Start mode (No Backlight) and displays hours only increments (not minutes). Once the delayed start time has expired the appliance enters control mode, and the display will now show the Set Point.

The Delayed Start function shall not be maintained if mains power is removed and reapplied. The Delayed Start function shall use the maximum power as defined using the  button sequence and the Set Point active prior to entering Delayed Start mode.

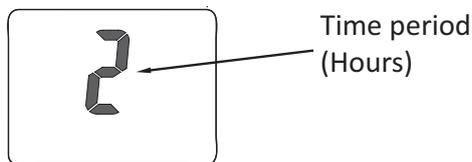


Fig. 6

## Power Select Mode

It is possible to alter the power output of the appliance. Doing this limits the power output of the appliance, there are two alternative power modes available, mid heat (1200W) and low heat (800W). To change the power mode setting it is necessary to do the following:

1. The product must be first switched off and then switched on, this can be done by plugging in the appliance - see Fig. 7 or by switching it on at an isolator switch. At the same time press and hold the  key for at least 2 seconds after main power is applied.
2. After power up '2' will appear on the LCD display and the standby key can be released. '2' indicates that the appliance is in mid heat mode.
3. In order to select low level heat setting press the  key within 5 seconds. The Display on the LCD should change to '1'.
4. Once the desired heat setting is reached do not press any other keys. After a short period the LCD will switch off and the appliance will revert to standby mode.

5. Pressing the  button again will turn on the display and the appliance will be in control mode. The display will toggle between the set temperature and the power mode setting, for example between 25°C and '2'
6. In order to revert to the default Eco mode, simply switch off the power at the wall or unplug the appliance. On the next operation (when plugged in) it will automatically revert to Eco mode.

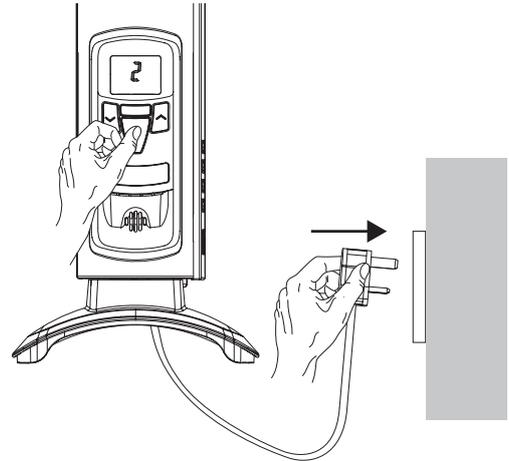


Fig. 7

## Safety – Overheat Protection

For your safety, this appliance is fitted with a thermal cut-out. In the event that the product overheats, the cut-out switches the heater off automatically. To bring the heater back into operation, remove the cause of the overheating, then unplug or turn off the electrical supply to the heater for a few minutes. When the heater has cooled sufficiently, re-connect and switch on the heater.

## Important Notes

Although this heater is manufactured to comply with the relevant safety standards, certain types of carpets could become discoloured by the temperatures under a portable heater. If you are concerned about this, we recommend that you contact the carpet manufacturer for guidance. Alternatively, either stand the heater on a suitable base to shield the carpet or wall-mount it – call our Helpline for further advice.

You may notice some parts of the element appearing to be hotter from time to time because of the variable airflow through the heater. This does not cause a safety hazard.

The heat outlet grille may become discoloured with use – this is caused by airborne pollution and is not a fault.

## Recycling



For electrical products sold within the European Community.

At the end of the electrical products useful life it should not be disposed of with household waste.

Please recycle where facilities exist.

Check with your Local Authority or retailer for recycling advice in your country.

## Cleaning

### **WARNING – ALWAYS DISCONNECT FROM THE POWER SUPPLY BEFORE CLEANING THE HEATER.**

Before commencing cleaning, switch off the heater and allow it to cool. Disconnect the electricity supply to the appliance.

The outside can be cleaned by wiping it over with a soft damp cloth and then dried. Do not use abrasive cleaning powders or furniture polish, as this can damage the surface finish.

To release the heater from the wall bracket for cleaning or redecoration, depress latch on each bracket and hinge forward.

## After Sales Service

Your product is guaranteed for three years from the date of purchase. After sales information or assistance with this product can be found on our website [www.dimplex.co.uk/support](http://www.dimplex.co.uk/support).

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

Please do not return a faulty product to us as this may result in loss or damage and delay in providing you with a satisfactory service.

If following these steps your product still does not operate you should return it to your point of purchase.

Please retain your receipt as proof of purchase.