



# OPERATING INSTRUCTION MANUAL

# Optiflame<sup>3D</sup>

## Dimplex Optiflame 3D Stove Fire

Models: Laverton LVT20, Fernshaw FRW20, Southbank STH20

EN: This product is only suitable for well insulated rooms or occasional use. DE: Dieses Produkt ist nur für gut isolierte Bereiche oder gelegentliche Verwendung geeignet. FR: Ce produit convient uniquement à des endroits bien isolés ou pour un usage occasionnel. IT: Questo prodotto è adatto solo per spazi ben isolati o per uso occasionale. ES: Este producto sólo es adecuado para espacios bien aislados o un uso ocasional. NL: Dit product is uitsluitend geschikt voor goed geïsoleerde ruimten of voor sporadisch gebruik. PL: Produkt ten jest odpowiedni wyłącznie do dobrze odizolowanych miejsc lub do okazjonalnego użytku. NO: Dette produktet egner seg kun for godt isolerte rom eller sporadisk bruk. RO: Acest produs este adecvat exclusiv spațiilor bine ventilate sau utilizării ocazionale. CZ: Tento výrobek je vhodný pouze do dobře izolovaných prostor nebo k příležitostnému použití. DK: Dette produkt er kun egnet til velisolerede rum eller lejlighedsvis brug. PT: Este produto somente é adequado para espaços bem isolados ou uso ocasional. SE: Denna produkt är endast avsedd för välisolerade utrymnen eller tillfällig användning. FI: Tämä tuote soveltuu ainoastaan hyvin eristettyihin tiloihin tai satunnaiseen käyttöön. SK: Tento výrobok je vhodný len pre dobre izolované priestory alebo na občasné použitie. SI: Ta izdelek je primeren le za dobro izolirane prostore ali za občasno uporabo. HR: Ovaj proizvod je pogodan samo za dobro izolirane prostore ili povremenu upotrebu. HU: Ez a termék csak jól szigetelt terekhez vagy eseti használatra alkalmas



This product complies with all the required Product Safety, Electromagnetic Compatibility and Environmental Standards. This product is fully compliant with the LVD, EMC, RoHS and Eco Design Directives.

**CAUTION: FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE INJURY AND/OR DAMAGE AND MAY INVALIDATE YOUR GUARANTEE**

**Important Safety Advice**

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electrical shock and injury to persons, including the following:

- If the appliance is damaged, check with the supplier before installation and operation.
- Do not use outdoors.
- Do not use in the immediate surroundings of a bath, shower or swimming pool.
- Do not locate the appliance immediately below a fixed socket outlet or connection box.
- Do not use this heater if it has been dropped.
- Do not use if there are visible signs of damage to the heater.
- Use this heater on a horizontal and stable surface, or fix it to the wall, as applicable

**Warning: This heater must not be used for anything other than normal domestic household purposes in the country where it was purchased from a recognised commercial retailer.**

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 and knowledge as long as they have been given supervision or instruction concerning 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 undertaken by children without supervision.

Children of less than 3 years should be kept away from the appliance 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 use of the appliance in a safe way and understanding 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.

**WARNING: Choking may be caused by swallowing small loose fuel bed media (crystal, vermiculite) accidentally. Keep them away from children all the time.**

**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 alternating current supply (~) only and the voltage marked on the heater must correspond to the supply voltage.

Do not use this appliance in series with a thermal control, a program controller, a timer or any other device that switches on the heat automatically, since a fire risk exists when the appliance is accidentally covered or displaced.

DO NOT use the heater on deep pile carpets or the long hair type of rugs, or less than 750mm (30") away from any overhanging surface. Keep combustible materials such as drapes and other furnishings clear from the front, sides and rear of the heater. Do not use heater to dry your laundry.

In the event of a fault, unplug the appliance. Unplug the appliance when not required for long periods. The appliance must be positioned so that the plug is accessible. If the supply cord is damaged it must be replaced by the manufacturer or service agent or a similarly qualified person in order to avoid a hazard. Keep the supply cord away from the front of the appliance.

**Warning:** Do not use this heater in small rooms when they are occupied by persons not capable of leaving the room on their own, unless constant supervision is provided.

**Warning:** To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 1m from the air outlet.

**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. This instruction can be found at [www.dimplex.co.uk](http://www.dimplex.co.uk)

**CAUTION:** Do not use if the heater's mains power lead is damaged. Such use may cause a hazard. If damaged, the mains power lead must be replaced by the manufacturer or its authorised dealer.

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

**Warning:** In order to avoid overheating, do not cover the appliance. Do not place material or garments on the appliance, or obstruct the air circulation around the appliance, for instance by curtains or furniture, as this could cause overheating and a fire risk.

**THE APPLIANCE CARRIES A DO NOT COVER WARNING.**

# Dimplex Optiflame 3D Stove Fire

Models: Laverton LVT20, Fernshaw FRW20, Southbank STH20

Thank you for choosing a Dimplex electric fire.

## General Information

The fire incorporates a flame effect, which can be used with or without heating, so that the comforting effect may be enjoyed at any time of the year.

A fan heater can provide heating in cold weather. A distance of 1 metre (3 feet) must be maintained between the front of the heater and any surrounding furniture, overhanging curtains or other obstructions.

To reduce heat loss and to prevent any chimney up draft affecting the operation of your stove fire, we recommend that the chimney flue is sealed off.

Always ensure that the appliance is sitting on a level surface.

Before connecting the appliance, check that the supply voltage is the same as that stated on the appliance.

**Please note:** Used in an environment where background noise is very low, it may be possible to hear a sound which is related to the operation of the flame effect. This is normal and should not be a cause for concern.

## Technical Information

Model No: Laverton LVT20, Fernshaw FRW20, Southbank STH20

Heat Output		230V	240V	
Nominal Heat Output	$P_{\text{Nom}}$	1.8	1.9	kW
Minimum Heat Output	$P_{\text{min}}$	0.9	1	kW
Maximum Continuous Heat Output	$P_{\text{max}}$	1.8	1.9	kW
Auxiliary Electricity Consumption				
In Standby Mode	$P_{\text{Nom}}$	0.36	0.36	W

With electronic room temperature control.

## Installation Instructions

This heater must be used on an AC ~ supply only and the voltage marked on the heater must correspond to the supply voltage. Before switching on, please read the safety warnings at the head of the instruction manual and operating instructions on page 9. Please retain this user's guide for future reference

If you settle this appliance in an existing chimney, we recommend that;

1. You have your chimney cleaned by a competent chimney sweep.
2. You block off the chimney flue.

This procedure is important for the efficient operation of the heating unit and will also reduce heat loss up the chimney.

Ensure that all packing items are removed (read any warning labels carefully). Retain all packing for possible future use e.g. in the event of moving or returning the appliance to your supplier.

# Product Dimensions

Laverton LVT20

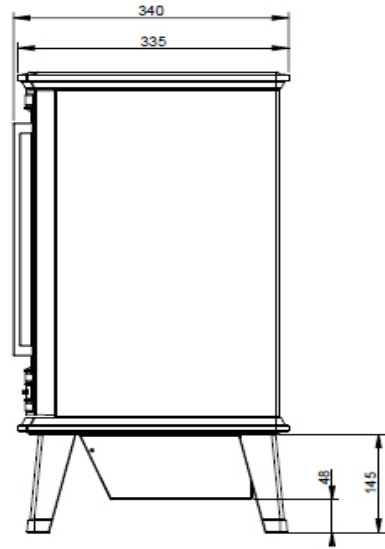
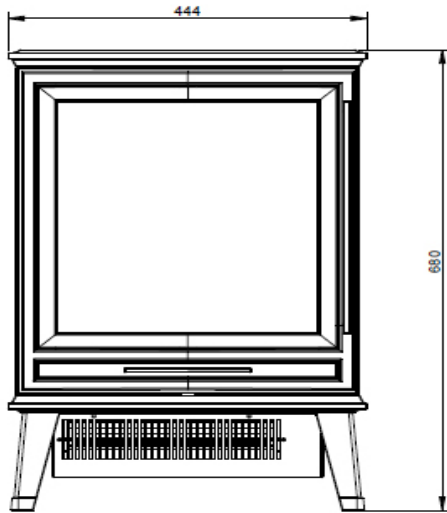


Fig. 1

Fernshaw FRW20

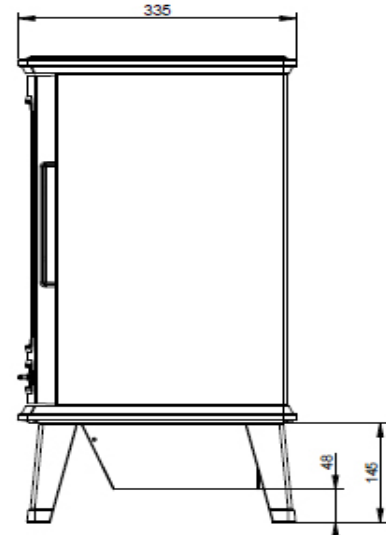
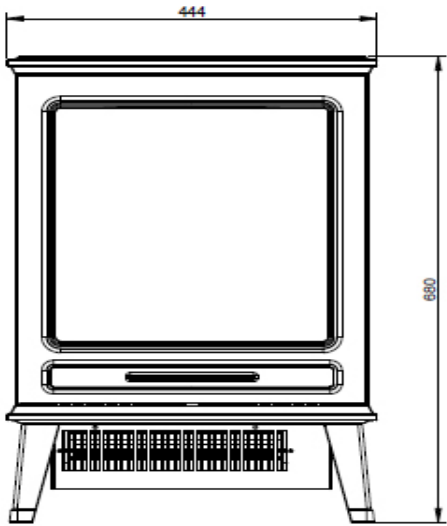


Fig. 2

Southbank STH20

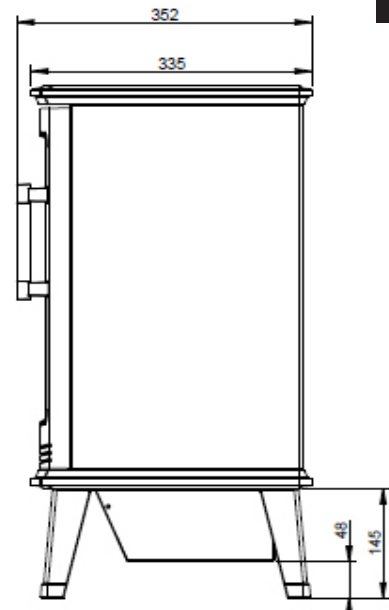
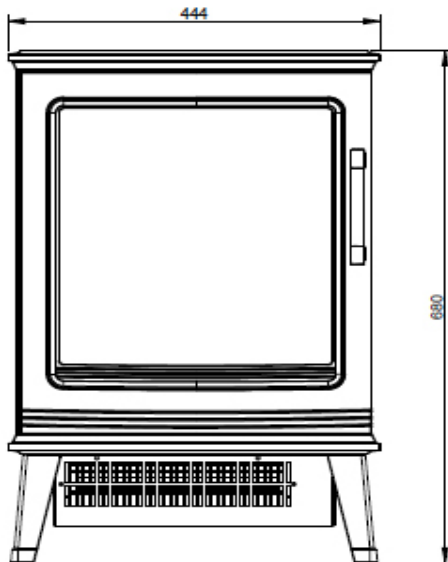


Fig. 3

## Fuelbed Assembly

Your fire has been supplied with a range of fuel bed material's, all models contain a 5-piece log set together with a loose set of crystals and vermiculite pieces to complete the fire effect. See Fig.4 below

Note: Each log has number engraved on the surface to help customer to find.



Decoractive Crystals (130g)



Vermiculite (Ash) (50g)

**Fig. 4**

**Warning: Choking may be caused by swallowing small loose fuel bed media (crystal, vermiculite) accidently. Keep them away from children all the time.**

## STEP 1



## STEP 2



## STEP 3



Between logs 3 & 4 sweep the vermiculite apart to clearly expose the underlying fuel bed base in the three circle marked areas shown below.

## STEP 4

Using the 130g bag of crystals supplied, first place some crystals into the three clear fuel bed circles created in step 3, fill the exposed fuel bed area fully with crystals as shown. The remainder of the crystals can then be placed anywhere else on the fuel bed. These crystals are used to generate the illusion of hot ash and fire embers. We recommend using the entire bag of crystals to achieve optimal effect.



Now you are ready to switch on the product to enjoy the beautiful Opti-flame 3D flame.
















# Operating The Product

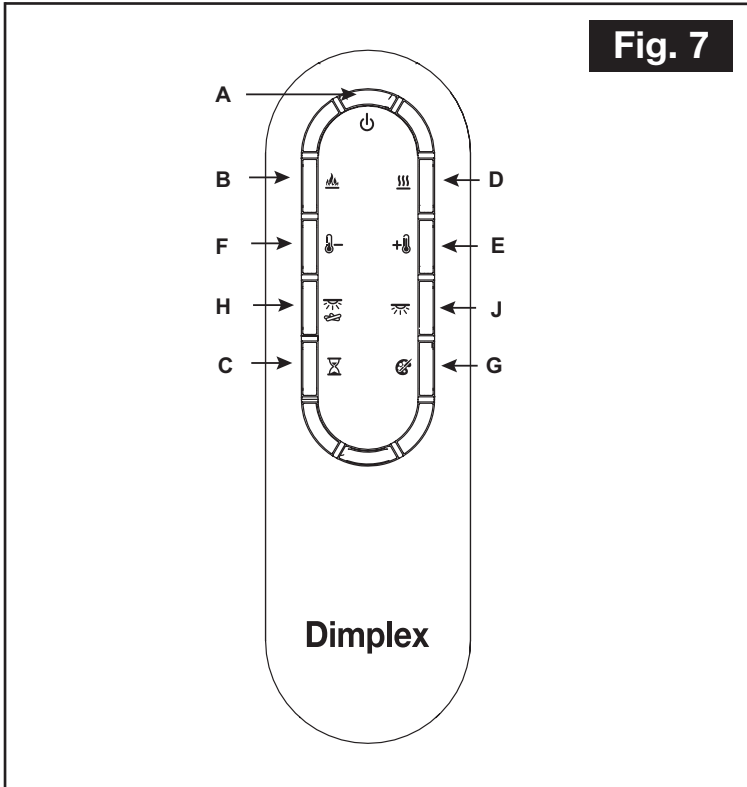
**WARNING: FAILURE TO FOLLOW THESE OPERATING INSTRUCTIONS MAY RESULT IN INJURY AND/OR DAMAGE.**

**Please note: The Remote Control is packaged in a red box. The battery is also stored in this box and must be installed in the remote control before operation.**

**To install the battery, the remote control must be opened by removing the screw and sliding off the access cover, located at the back. Place the battery into its holder and slide the cover into position, before reassembling the screw.**

**Operating Instructions (Remote Control)- See Figure 7**

	Dis-play	Funtion	Description
A		- Power / Standby	Press Once to turn the product 'ON'. Press <b>a second time to put</b> the product into 'STANDBY'. Red indicator light will show upon display for 10 seconds. (When returning from 'STANDBY' mode the product will return to previous settings unless the product has been unplugged, in which case it will reset to factory settings)
B		F0	Press 'FLAME EFFECT' button to F0, there is no flame under this setting. Fuel bed top light, back panel top light and Fuel bed RGB light are truned on at his model. Fuel bed top light and back panel top light can be turned off separately at this mode.
		F1 / F2 / F3	'FLAME EFFECT' Button This button will change the brightness of the flame effect. There are 3 brightness settings shown as F1, F2, F3.
		P Flame Pulsing	This setting is set by pressing the Flame Up button once more after F3. This will cause the brightness of the flame effect to cycle randomly, creating a flickering effect.
C		Sleep Timer	Press multiple times to change the 'SLEEP TIMER' in 0.5 hr increments from 0.5 hr to 8.0 hr before turning off. The remaining time on the 'SLEEP TIMER' displays. (This icon is <b>Green</b> in colour)
D			'HEAT' button cycles the unit sequentially through the 4 settings: LOW HEAT, HIGH HEAT, COOL BLOW and OFF. The heat setting will be indicated by an icon in the display.  When the flame effect is 'ON' the display will turn off after 5 seconds, however if the heater is being used independently of the flame effect. The low heat or high heat icon will appear continuously in the display.
			Low Heat This setting will run the heater at 'LOW HEAT' this setting will be indicated by the 'LOW HEAT' icon and the letters 'LO' appearing in the display. To adjust the temperature setting the Temp Down or Temp Up buttons described below must be used. (This icon is <b>Orange</b> in Colour)
			High Heat This icon in the display indicates 'HIGH HEAT' this setting will be indicated by the 'HIGH HEAT' icon and the letters 'HI' appearing in the display. To Adjust the temperature setting the Temp Down or Temp Up buttons described below must be used. (This icon is <b>Red</b> in Colour)
			Cool Blow This icon in the floating display indicates 'COOL BLOW' this setting will be indicated by the 'COOL BLOW' icon and the letters 'CB' appearing in the display. (This icon is <b>Blue</b> in Colour)
		-	Off This switches the heater and blower 'OFF', no icon will be displayed in the display. Note the blower will run for 5-10 seconds after being turned off, this is to ensure the product cools down safely.
E		31 Temp Up	Press multiple times to increase the heater temperature in 1°C increments. The highest temperature that can be set 31°C.  When High Heat is selected, the letters 'HH' appear in the display, this means the heat will remain ON continuously and is not controlled by the thermostat.
F		18 Temp Down	Press multiple times to lower the heater temperature in 1°C increments. The lowest temperature that can be set is 18°C.
G		- Ambient Cycle	Press once to display current Ambient Setting. Subsequent presses will cycle through the settings. Range is from "A1" to "A6".
H		- Top-light Fuel Bed	Press to turn ON/OFF the Top light illuminating the fuel bed.
J		- Top-light Back-ground	Press to turn ON/OFF the Top-light illuminating the product background.

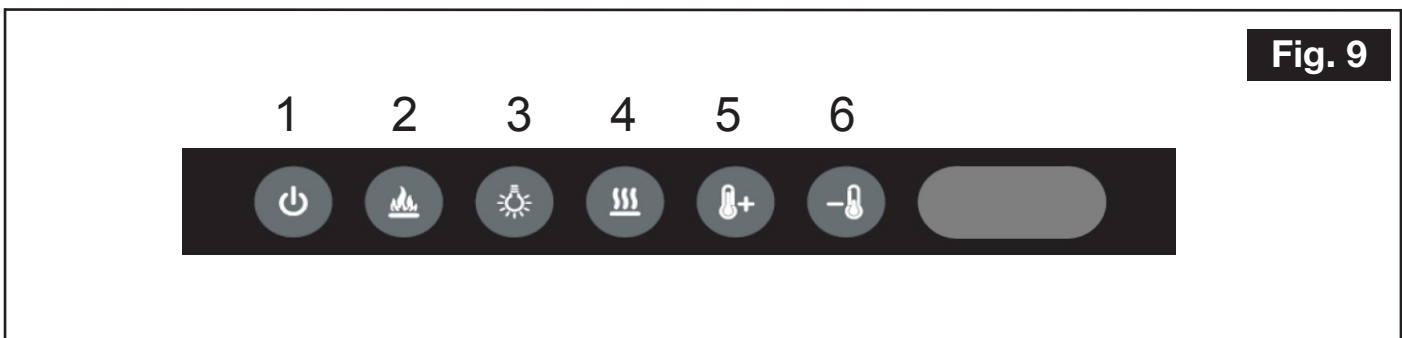


**Fig. 8**

Caution: The remote handset requires a cell battery (CR2032) to operate. This is supplied in a small zip bag with the handset. Locate the battery compartment on the back of the handset. Remove the screw using a Philips screwdriver from the battery compartment door (keeping it safe to be refitted later). Remove the battery compartment door. Insert the CR2032 battery ensuring it is installed the correct orientation. Replace the battery compartment door and refit and tighten the screw. Do not over tighten. The use of this screw is intended to add extra child protection to your handset.

**Operating Instructions (On Board Controls)- See Figure 9**

Icon	Description
1	Press Once to turn the product 'ON'. Press a second time to put the product into 'STANDBY' (When returning from 'STANDBY' mode the product will return to previous settings unless the product has been unplugged, in which case it will reset to factory settings)
2	'FLAME EFFECT' button this button will cycle through the settings 'F0', 'F1', 'F2', 'F3', 'P'.
3	Press to turn ON/OFF the Top light illuminating the fuel bed.
4	'HEAT' switch cycles the unit sequentially through the 4 settings: LOW HEAT, HIGH HEAT, COOL BLOW and OFF. The heat setting will be indicated by an icon in the display. See table on previous page for further details.
5	Press multiple times to increase the heater temperature in 1°C increments. The highest temperature that can be set 31°C.  When High Heat is selected, the letters 'HH' appear in the display, this means the heat will remain ON continuously and is not controlled by the thermostat.
6	Press multiple times to lower the heater temperature in 1°C increments. The lowest temperature that can be set is 18°C.



## User Modes:

Mode Name /Discription	Action (Actions cannot be input by remote control)
Change Celsius (° C) to Fahrenheit (° F)	Press both Temp down (⏮) and Temp up (⏭) on the unit and hold until beep is heard and display flashes. (To revert back to Celsius repeat this action)
Disable/Enable Heat Options on product and remote control	Hold both Heat Cycle (🔥) and Temp Up (⏭), on the product, for 5 seconds, when the heater has been disabled the display will read "--" and beep 1 time. To enable heat repeat this action.
Disable/Enable Heat Options on product only	Hold both Flame cycle (🔥) and Heat cycle (🔥), on the product, for 5 seconds, when the heater has been disabled the product will beep. This will disable heat control functions on the product only. To enable heat repeat this action. Note: the remote control will still be able to operate heat functions.

## Optimal Product Setup

When the product is switched on, the default brightness setting is F3, with all the effects operating. However, for optimal effect if the product is in a bright room, it is recommended that the toplights are switched off. If the product is operating in a darker room, it is recommended that the toplights are switched on, and the brightness effect is changed to Pulsing.

Please note: The product will maintain the most recent brightness settings if switched to standby. If the product is unplugged at the wall, it will revert to factory setting.

## Thermal Safety Cut-out

A thermal safety cut-out is incorporated in the fan heater to prevent damage due to overheating. This can happen if the heat outlet was restricted in any way. If the cut-out operates, unplug the heater from the socket outlet and allow approximately 10 minutes before reconnecting. Before switching the heater back on remove any obstruction that may be restricting the heat outlet, then continue normal operation.

## Maintenance

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

### Cleaning

Before commencing cleaning, unplug the heater and allow it to cool. The surfaces of the heater should be given an occasional wipe with a dry soft cloth. Do not use detergents, abrasive cleaning powder or furniture polish as this can damage the surface finish of the product.

The product door glass screen should be cleaned carefully with a chamois leather. Do not use proprietary cleaners.

To remove any accumulation of dust or fluff, the soft brush attachment of a vacuum cleaner should occasionally be used to clean the outlet grille of the fan heater located under stove main body.

To clean the fuel effect, remove the ash/crystal and wash in warm water. The plastic tray should be wiped clean with a damp cloth. When dry replace the ash/crystal and arrange for best effect.

### Led Lamps

This fire is fitted with LED. These generate the same light levels as traditional bulbs, but use a fraction of the energy consumed.

**CAUTION:** Repair of this heater must be carried out by Dimplex or its authorised agent.

**CAUTION:** We recommend that you arrange for this heater to be checked annually for safety by a qualified electrician.

## Additional Information

Your product is guaranteed for one year from the date of purchase. Within this period, we undertake to repair or exchange this product free of charge provided it has been installed and operated in accordance with these instructions. 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 information or assistance with this product please go to **www.dimplex.co.uk** and select "Customer Support" or ring our help desk on 0344 879 3588 (UK) or 01 842 8222 (R. O. I.). Spare parts are also available on the web site. Please retain your receipt as proof of purchase.



### Recycling

At the end of the electrical products useful life it not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice in your area.

---

Tel: 0344 879 3588

Republic of Ireland Tel: 01 8428 222

[www.dimplex.co.uk](http://www.dimplex.co.uk)



Dimplex Millbrook House, Grange Drive, Hedge End, Southampton, SO30 2DF

---

© Glen Dimplex Heating and Ventilation.

All rights reserved. Material contained in this publication may not be reproduced in whole or in part, without prior permission in writing of Glen Dimplex Heating and Ventilation.