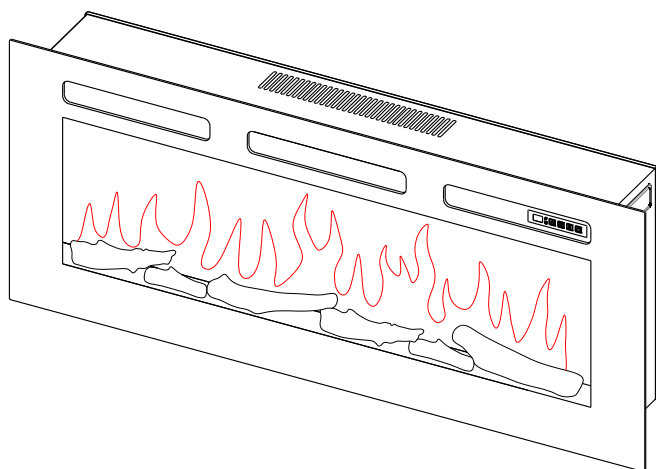


ELECTRIC FIREPLACE

INSTRUCTION MANUAL


MODEL NO.

EF449A/EF450A/EF451A/EF452A/EF453A



PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE
INSTALLING AND USING APPLIANCE.
SAVE THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE.

IMPORTANT SAFETY INFORMATION

- Read all of the instructions before using this appliance.
- For indoor use only. This appliance is not suitable for use outside the house and only suitable for well insulated spaces or occasional use.
- DO NOT use this appliance in the immediate surroundings of a bath, a shower or a swimming pool.
- This fire must not be located immediately below or in front of a socket outlet. This appliance must be earthed.
- 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 utility in order to avoid a hazard due to the inadvertent resetting of the thermal cut out.
- If the power cord is damaged, it must be repaired by the manufacturer, its authorized service centre or professional person.
-  The figure in the marking is “DO NOT COVER”

WARNING! in order to avoid overheating, do not allow the appliance to be covered or let the air inlet/outlet become obstructed.

- **WARNING:** To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 1 meter from the air outlet.
- Keep the power cord away from hot surfaces and hot conditions. DO NOT route the power lead in front of the appliance.
- DO NOT use this fire in rooms that have explosive fumes in them (for example petrol), or if you are using solvents, glue, aerosol spray or flammable paints, as these may catch fire.
- 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 if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

- **Caution:** some part of this appliance can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.
- Children aged between 3 and 8 years old should only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and instructions and supervision concerning the safe usage of the appliance are given.
- Cleaning and user maintenance shall not be made by children without supervision.
- This appliance shall not be played with by children.
- Children of less than 3 years should be kept away unless continuously supervised.
- Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.
- **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.
- Keep the power plug accessible after installation.
- DO NOT use if there are visible signs of damage to the appliance.
- DO NOT use this heater if it has been dropped.
- Use this heater on a horizontal and stable surface, or fix it to the wall, as applicable.

WARNING! Information below for authorized person or service centre only:

A non-rewireable plug fitted with a 13A fuse is supplied. Should the fuse or plug need replacing, and you are competent to do so, it must be replaced with a 13A fuse or plug being 13A BS1363A approved.

TECHNICAL SPECIFICATIONS

MODEL NO.: EF449A/EF450A/EF451A/EF452A/EF453A

Supply Voltage: AC 230-240V 50Hz

Maximum power consumption: 1.65-1.8KW

Power for flame and fuel bed effect:

MODEL	EF449A	EF450A	EF451A	EF452A	EF453A
POWER	5.76W	5.76W	7.20W	8.64W	10.08W

HEAT OUTPUT:

Nominal heat output (P_{nom}): 1.8KW

Minimum heat output (indicative) (P_{min}): 0.9KW

Maximum continuous heat output (P_{max}): 1.8KW

AUXILIARY ELECTRICITY CONSUMPTION:

At nominal heat output (el_{max}): 12.5W

At minimum heat output (el_{min}): 12.0W

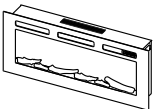

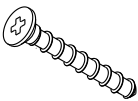

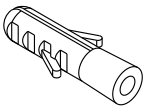
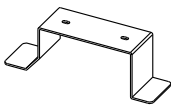
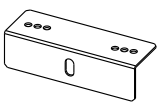

In standby mode (el_{SB}): 0.48W

TYPE OF HEAT OUTPUT/ROOM TEMPERATURE CONTROL	
Single stage heat output and no room temperature control	NO
Two or more manual stages, no room temperature control	NO
With mechanical thermostat room temperature control	NO
With electronic room temperature control	Yes
Electronic room temperature control plus day timer	Yes
Electronic room temperature control plus week timer	Yes
OTHER CONTROL OPTIONS	
Room temperature control, with presence detection	NO
Room temperature control, with open window detection	Yes
With distance control option	NO
With adaptive start control	Yes
With working time limitation	NO
With black bulb sensor	NO

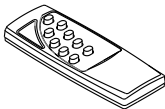
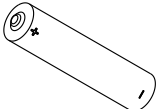
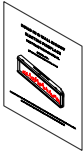
Control PCB	Remote Control Receiver	Remote Control Transmitter
Hardware: RC01-076A01-V0.0 Software: RC01-076A01-V1.0	Hardware: RC01-05A V0	Hardware: PH-B4-01 Software: RCS27-V1.0

PARTS AND HARDWARE

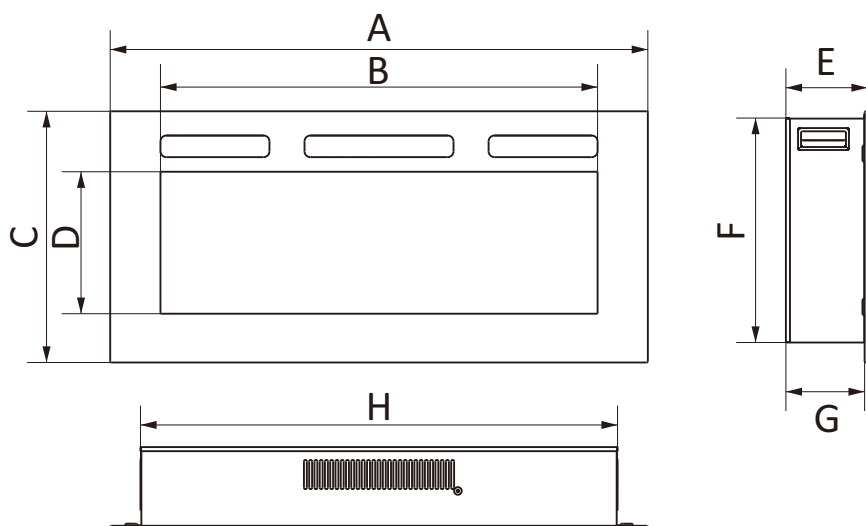
- Unpack the fire carefully, make sure that the appliance is intact with no signs of damage caused by transport and no part has been exposed to water. If in doubt, do not use the appliance and contact an authorized service center.
- Keep plastic wrapping away from children.
- Save the original packaging as this may be required in the event of service complaint with product.
- Check that all parts are removed from the packaging.

			
1x	8/8/8/4/4x	4x	8/8/8/10/10x
Firebox	Screw M4*8	Screw ST4*40	Screw ST5*40
			
8/8/8/10/10x	2/2/2/0/0x	2x	1x
Wall Plug	Standing Bracket	Bracket	Crystal Media

Note: Standing brackets are only prepared for EF449A/EF450A/EF451A.

			
1x	2x	1x	
Remote Control	Battery	Instruction Manual	

APPLIANCE DIMENSIONS



Unit:mm

MODEL	A	B	C	D	E	F	G	H
EF449A	920	748	430	243	143	386	138	820
EF450A	1020	848	430	243	143	386	138	920
EF451A	1270	1098	430	243	143	386	138	1170
EF452A	1525	1353	430	243	143	386	138	1425
EF453A	1780	1608	430	243	143	386	138	1680

INSTALLATION INSTRUCTIONS

BEFORE INSTALLATION

1. LOCATE THE FIREBOX

Your new electric fireplace may be installed virtually anywhere in your home. However, when choosing a location, ensure that the general instructions are followed.

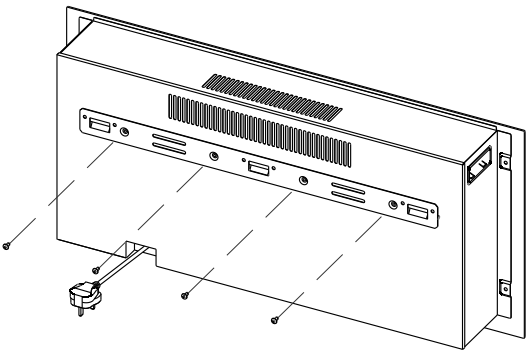
- For best results, install out of direct sunlight.
- The appliance should be connected to an earthed electrical outlet and it must be easily accessible to allow disconnection.

MINIMUM CLEARANCE TO COMBUSTIBLE

Sides	0
Floor	0
Back	0
Front	1000mm Minimum
Top (Mantel or TV)	200mm Minimum



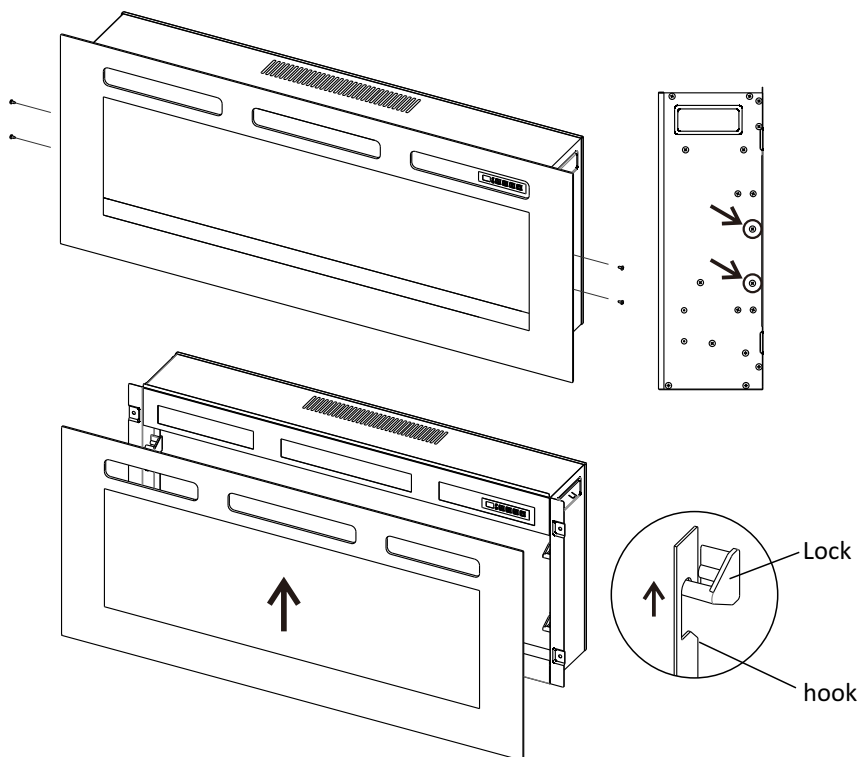
2. REMOVE WALL MOUNTING BRACKET



3. REMOVE FRONT GLASS PANEL

- Remove the screws for fixing the front glass pabel from two sides of the appliance, and then , carefully lift upward the front glass panel to take down it.

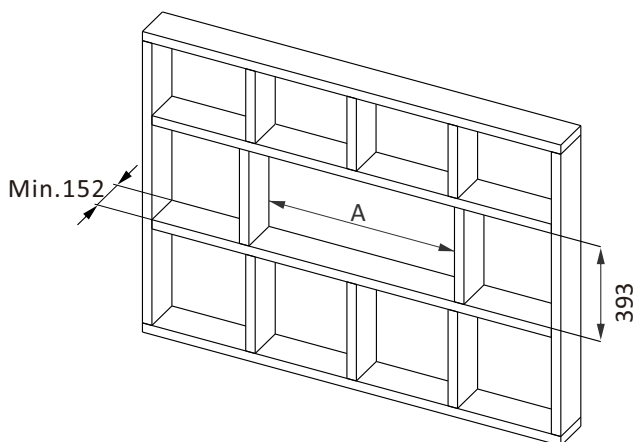
Note: Save the screws removed from the appliance.



CHOOSE A WAY TO INSTALL

WALL RECESSED

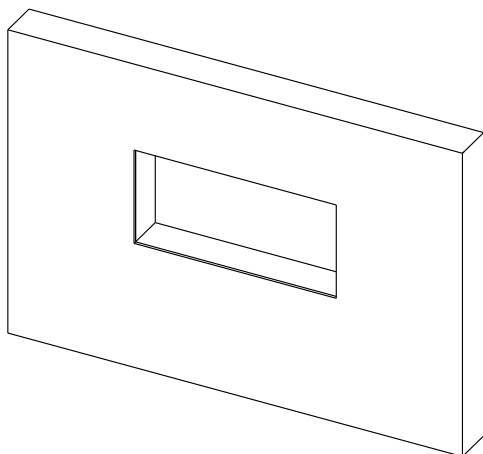
- Build a frame with power supply as shown below.



Unit:mm

MODEL	EF449A	EF450A	EF451A	EF452A	EF453A
A	825	925	1175	1430	1685

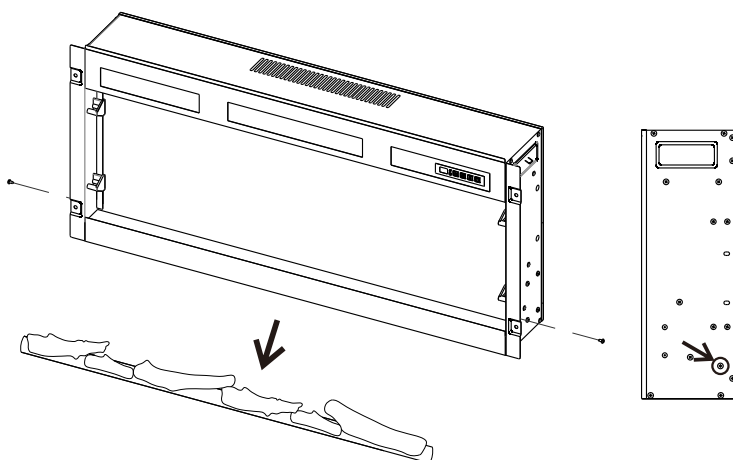
- Finish the wall by paint or wall paper.



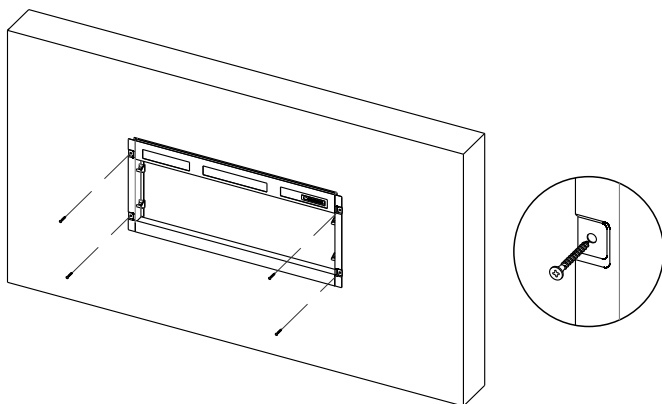
- Remove the log fuel bed if you want to replace it with crystal media.

HOW TO REMOVE LOG FUEL BED

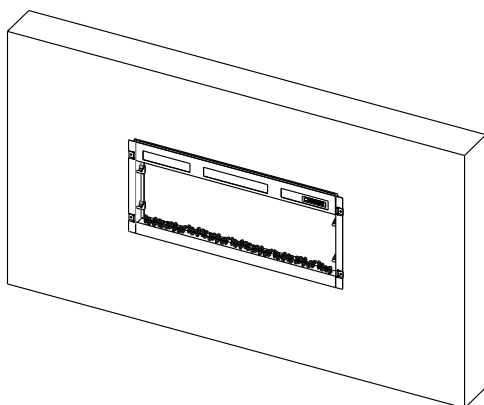
Remove and save the galvanized screws on both sides for fixing the fuel bed to take down it.



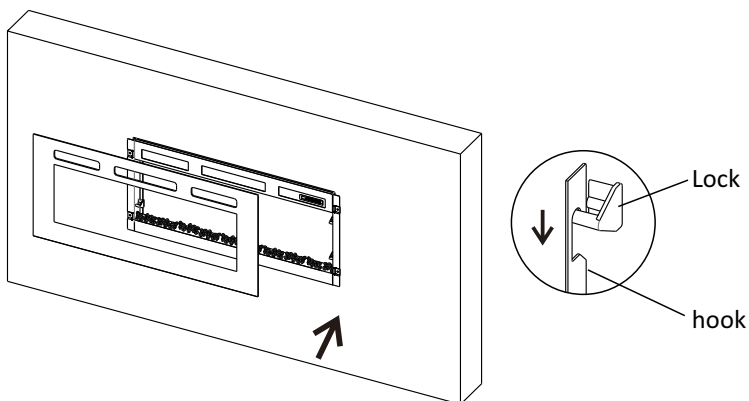
- Insert the firebox into the framework and fix it by four ST4x40 screws



- Evenly scatter the crystal media on the fuel bed.

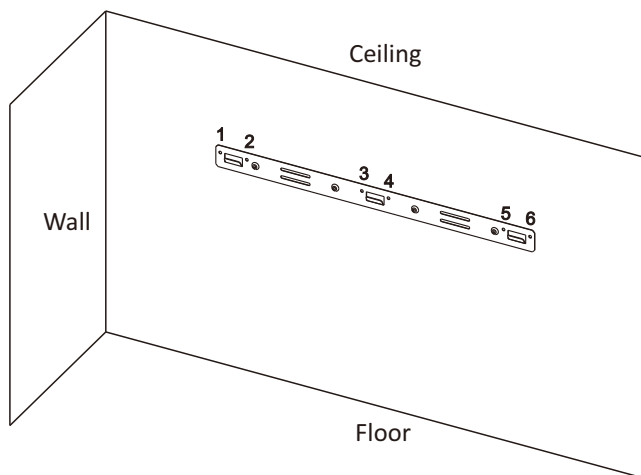


- Install the front glass panel back .Make sure the hook is fully hooked into the lock. The installation is completed now.

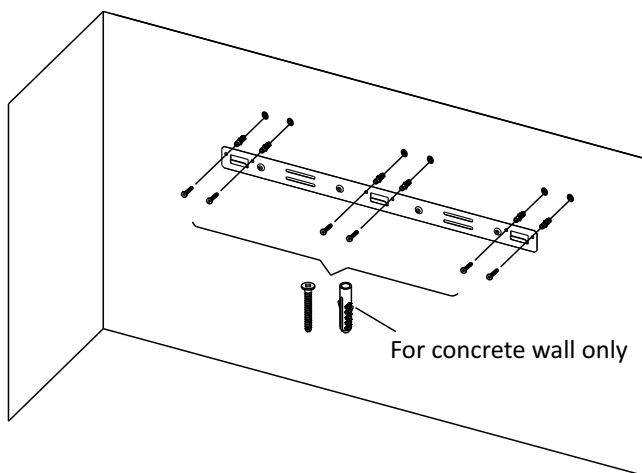


WALL MOUNTED

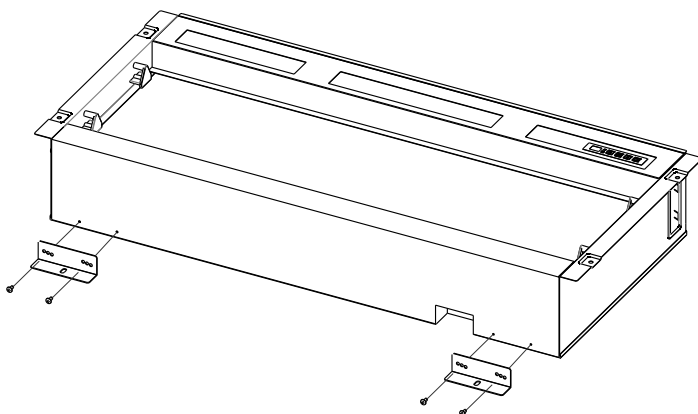
- Place the wall mounted bracket in the desired position ensuring that the bracket is leveled. Mark and drill the holes.



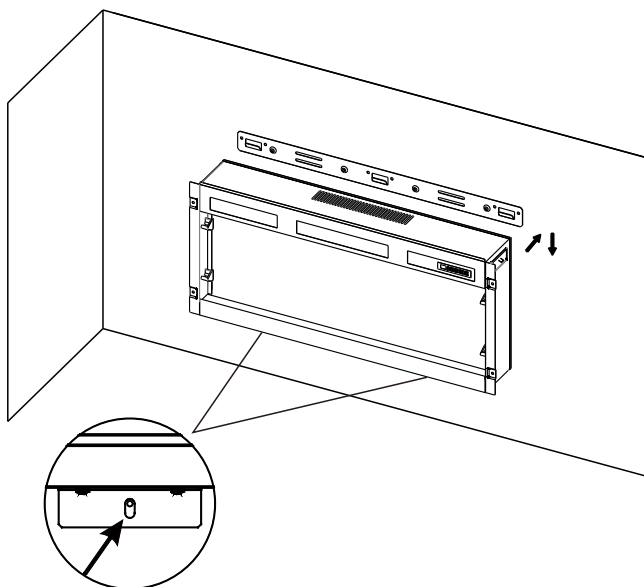
- Insert wall plug(for concrete wall only) into the holes and secure the bracket to the wall with six ST5*40 screws.



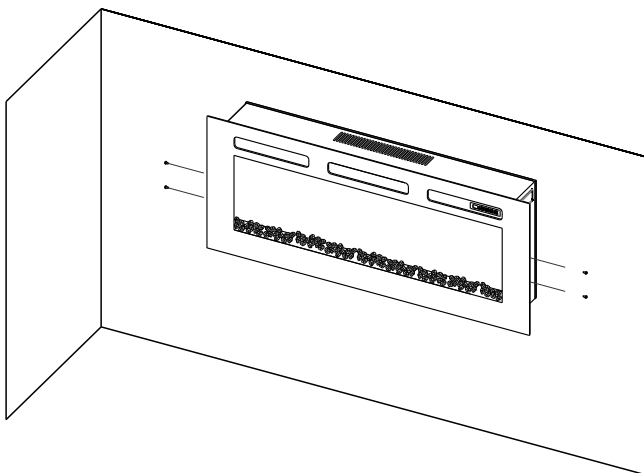
- Fix the L brackets to the bottom of the firebox with four M4*8 screws.



- Hang the firebox on the wall bracket and mark the position of the L bracket ,then take the firebox down. Drill 2 holes on the marked point, insert 2 wall plugs into the holes, then hang on the firebox again and fix it by two ST5*40 screws.

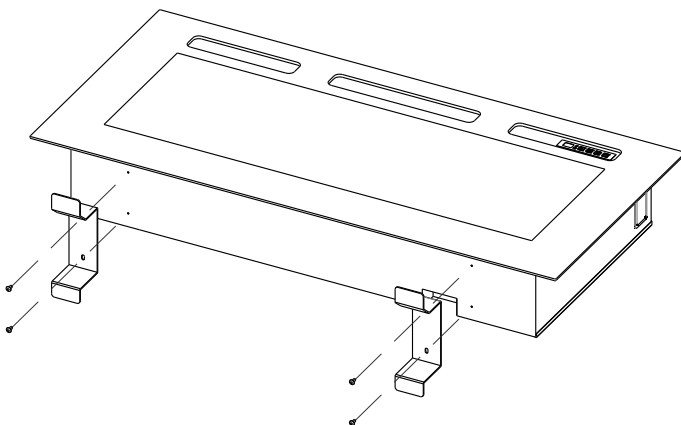


- Repeat the steps mentioned above to arrange the fuel bed and install the front glass panel and fix it to the sides of firebox with the screws.



FREE STANDING- FOR EF449A/EF450A/EF451A ONLY

- Install the standing bracket on the bottom of the appliance with four M4*8 screws.



- Repeat the steps mentioned above to arrange the fuel bed and install the front glass panel and fix it to the sides of firebox with the screws.

OPERATING INSTRUCTION

BEFORE OPERATION

WARNING! Do not operate the appliance if it is damaged or has malfunctioned. If you suspect the appliance is damaged or has malfunctioned, call a qualified service engineer to inspect the appliance, and replace any part of the electrical system if necessary, before re-use.

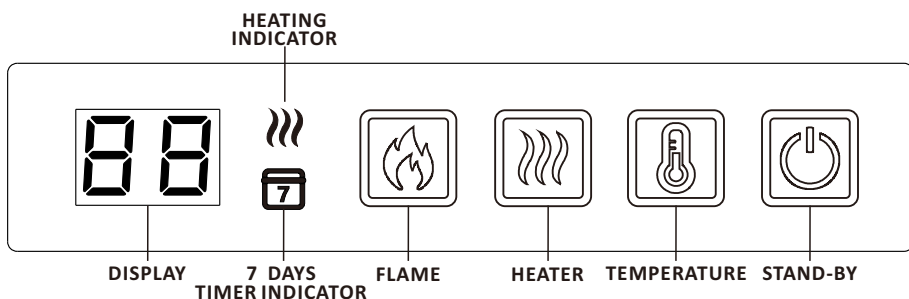
WARNING! To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 1 meter from the air outlet.

- MAKE SURE the plug fits tight in the outlet. Faulty wall outlet connections or loose plugs can cause the outlet to overheat.
- DO NOT disconnect the power at the mains supply whilst the appliance is running. Use the functions on the remote to turn the fire off and ensure the mains switch has been moved to the off position before disconnecting.

OPERATION METHOD

- The appliance can be operated conveniently in 2 different ways: manually or via the remote control handset.

MANUAL CONTROL



1. **STAND BY:** Turns on the appliance with the last used settings including heater. Place the appliance into standby mode with all features turned off.
2. **FLAME:** Press to cycle through 9 flame colours and off setting.
3. **HEATER:** Press to cycle through low heater, high heater and off setting.
4. **TEMPERATURE:** Press to adjust the heaters response to the ambient temperature conditions in the room. Temperature adjusts from 16 °C - 28 °C (60 °F - 84 °F) and then 58 °C (99 °F).

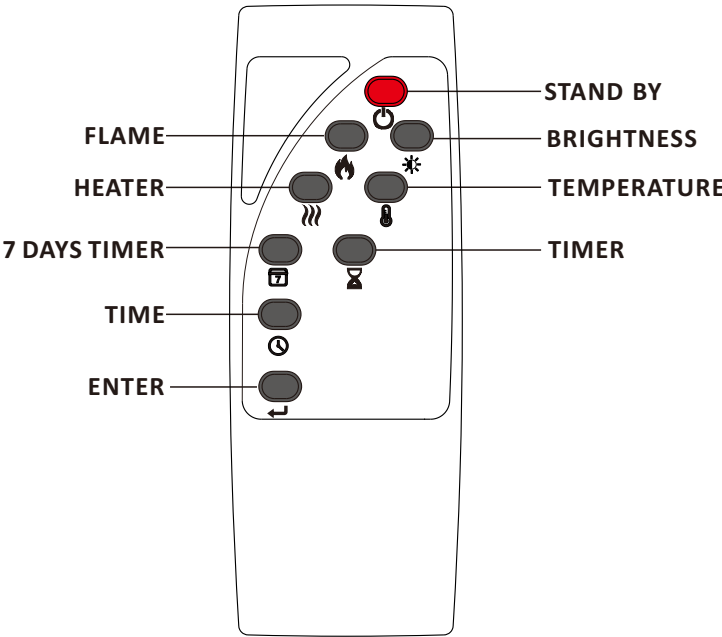
NOTE:



The manual button controls basic functions, not a full range of controls. Use the remote handset to carry out all functions.







In order to prevent the product becoming too hot, there is a 10s delay when turning on the heater and a 10s delay when turning off the heater fan.

REMOTE CONTROL








- NOTE:**
- Ensure that the batteries of remote handset are new and inserted correctly.
 - Aim the remote control at the remote receiver which is behind the right side of the flame screen.











Icon	Title	Function	Fireplace Response
	STANDY BY	Press to turn on /off the flame effects and heater.	Turn on:F1,...F9 ,F0 Turn off: no display
	FLAME	Cycle through 9 flame colours and off setting.	F1, F2,...F9,F0

	BRIGHTNESS	Cycle through 5 settings of brightness of flame and fuel bed.	L5, L4,L3,L2,L1,L0.
	HEATING	Cycle through low heater, high heater and off setting.	Lo=low heat setting HI=high heat setting The heater indicator will turn off after 10 seconds if the flame effect is on
	TEMPERATURE	Adjust the heaters response to the ambient temperature conditions in the room. Temperature adjusts from 16 °C - 28 °C (60 °F - 84 °F) and then 58°F (99°F). Hold for 3 seconds to switch between °C/°F.	16,17,18,19,20,21,22, 23,24,25,26,27,28,58 in Celsius degree 60,62,64,66,68,70,72, 74,76,78,80,82,84,99 in Fahrenheit degree.
	7 DAYS TIMER	Press to Turn on/off 7 days timer; Keep press to start the setting for 7 days timer.	Indicator lights on
	TIMER	Set the time desired for the fireplace to run. The timer can be set from 0.5 hour up to nine (9) hours in one (1) hour increments.	30, 1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H, 0H
	TIME	Press to set up the heating start and end time under 7 days timer; Keep press to set current time.	The number shows on the display.

SET UP CURRENT DAY AND TIME

Hold time button  on the remote to enter date and time setting mode; Repeatedly press time button  to select date, D1-D7 will show on the display which represents Monday-Sunday. Press button  to confirm, and then automatically enter hour setting. Press button  to set the hour, and press button  to save and then automatically enter minute setting. Press button  again to set minute and then press  to save.

SET UP 7 DAYS TIMER

- Hold the button  on the remote until the 7 days timer indicator on the firebox flashes to enter 7 days timer setting mode.
- D1 (Monday) will show on the display and then press  to confirm; then 00 will show on the display. Press button  to set the time for turning on the heater and then press  to confirm; The 00 will show on the display, press  to set the time for turning off the heater and then press  to confirm. PLEASE NOTE: There is only one period each day for heating on and off.
- Repeat the steps above to set the timer for D2 to D7 (Tuesday to Sunday). The display on fire will show the time for turning on and off the heater as same as the time of last day. If you want to change the time, press the button .
- If you don't want to set for a certain day, just set both start and end time as 00.
- Hold 7 days timer button  to save all settings after you finish the setting for Sunday. The indicator will stop to flash.
- The weekly timer will be set only when you finish the setting from Monday to Sunday completely. During the setting process, the pause of more than 20 seconds will terminate the entire weekly timer setting.

OPEN WINDOW DETECTION

Open Window Detection is an innovative eco feature that detects a rapid drop in room temperature caused by an open window. The warning word "oP" will be displayed on the appliance and the heater will be turned off. If the room temperature rises or the remote control is operated manually, the heater will return to its normal working state.

ADAPTIVE START CONTROL

Learning from the previous heating cycle enables the appliance to judge the appropriate advance time to turn on the heater to ensure that the set temperature is reached at the set time. For example, if your timer is set to start at 18:00 and temperature is set to 23°C, the fire may for example come on at 17:30 to ensure the room is 23°C at 18:00.

RESETTING THE THERMAL CUT OUT

The appliance is fitted with an Electronic Safety Control (E.S.). This is a safety device which switches off the fire if, for any reason, the appliance overheats, e.g. when covered. If the heater stops operating while the flame effect continues working normally, this indicates that the E.S. Control is in operation. The E.S. control can only be re-set after the appliance has cooled down, and the appliance has been reset. Resetting of the E.S. Control procedures are as follows :

1. Press button **STAND BY** on fire to turn off the appliance and leave it off for approximately 10-15 minutes.
2. Remove any obstruction to the fan heater outlet or fan blades etc. Make sure that the power supply is disconnected with the plug socket outlet while doing this.
3. Turn on the appliance and the E.S. Control will be reset.
4. Ensure that the appliance is functioning correctly. If the E.S. Control operates again. The appliance should be checked by a competent electrician.

MAINTENANCE

WARNING! Before any maintenance or cleaning of the exterior of the fireplace, the unit should be disconnected from the power supply until it has cooled.

REMOTE HANDSET BATTERY REPLACEMENT

Replace with two AAA batteries. Make sure the batteries are installed correctly in the remote control.

MAINTENANCE OF MOTORS

The motors used on the fan and flame effect are pre-lubricated for extended bearing life and require no further lubrication. However, periodic cleaning/vacuuming of the fan/heater unit is recommended.

CLEANING THE FIREPLACE

You can clean the exterior of the fireplace with a soft, damp, lint-free cloth. DO NOT use cleaning or polishing products. To remove fingerprints or other marks on the front glass panel, use a soft, damp, lint-free cloth with a good quality household glass cleaner. The front glass panel should always be completely dried with a clean, lint-free cloth or paper towel.

WARNING! Abrasive cleaners should not be used on the glass panel. Liquids should not be sprayed directly onto any surface of the unit.

DISPOSAL



Electrical appliances should not be disposed as household waste. Separate collection facilities should be used in the disposal of electrical appliances. Contact your local government for information about the available collection systems. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.



This fire complies with the Safety Standards BS60335-1 and BS60335-2-30 which covers the essential requirements of the Electrical Equipment (Safety) Regulations 2016 (S.I.2016/1101) and the EMC standards BS55014-1; BS55014-2; BS61000-3-2 and BS61000-3-3 which covers the essential requirements of the Electromagnetic Compatibility Regulations 2016 (S.I.2016/1091).



This fire complies with the Safety Standards EN60335-1 and EN60335-2-30 which covers the Low Voltage Directive 2014/35/EU and the EMC standards EN55014-1; EN55014-2; EN61000-3-2 and EN61000-3-3 which covers the essential requirements of the Electro Magnetic Compatibility 2014/30/EU.

Distributor: Modello Ltd
Deansfield House
98 Lancaster Road
Newcastle under Lyme
Staffordshire, ST5 1DS
England

Tel: 01785 719005

Email: customerservice@modello.co.uk
