

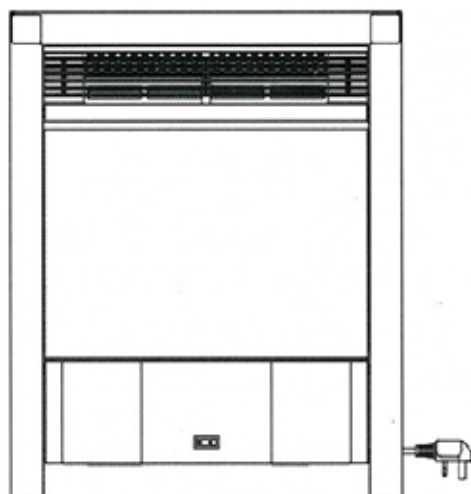
# Charlton & Jenrick<sup>LTD</sup>

*Best of British fires, fireplaces & stoves*

## Inset LED Electric Fire

Model No.EF16NC/2

### INSTALLATION AND OPERATION INSTRUCTIONS




**Please read the instructions carefully before installation or use and keep for future reference**

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- 1.10 The meaning of figure  in 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. Please note the warning symbol on the appliance (see above).
- 1.11 To reduce the risk of fire, keep textiles, curtains, or any other flammable material a minimum distance of 1 meter from the air outlet.
- 1.12 Keep the power cord away from hot surfaces and hot conditions. Do not route the power lead in front of the appliance.
- 1.13 Do not use this fire in rooms that have explosive gas in them (for example petrol), or if you are using solvents, glue, aerosol spray or in flammable paints, as these may catch fire.
- 1.14 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.
- 1.15 Children and vulnerable people must be supervised at all times when using this appliance, as some parts can become very hot and cause burns.

- 1.16 Do not use this appliance in small rooms when they are occupied by persons not capable of leaving the room on their own, unless constant supervision is provided.
- 1.17 Cleaning and user maintenance shall not be made by children without supervision.
- 1.18 Children aged from 3 years and less than 8 years only can switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and instructions and supervisions concerning the safe way of the use of the appliance are offered. Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.
- 1.19 This appliance shall not be played with by children.
- 1.20 Children of less than 3 years should be kept away unless continuously supervised.
- 1.21 Keep the power plug accessible after installation.

## 2. TECHNICAL SPECIFICATIONS

Model No.: EF16NC/2

Supply Voltage: AC 220-240V 50Hz

Maximum power consumption: 1.5KW

Power for flame effect: 9.5W (LED 5.5W + Motor for flame 4W)

Power for mood light: DC12V, Max. 5.5W 0.48A

### **Heat Output:**

Nominal heat output (P<sub>nom</sub>): 1.5KW

Minimum heat output(indicative) (P<sub>min</sub>): 0.75KW

Maximum continuous heat output (P<sub>max</sub>): 1.5KW

### Auxiliary Electricity Consumption:

At nominal heat output (elmax): 12.5W

At minimum heat output (elmin): 12W

In standby mode (elSB): 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 mechanic 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




## 3. PARTS AND HARDWARE











3.1 Unpacking 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 authorised service centre

3.2 Keep plastic wrapping away from children.

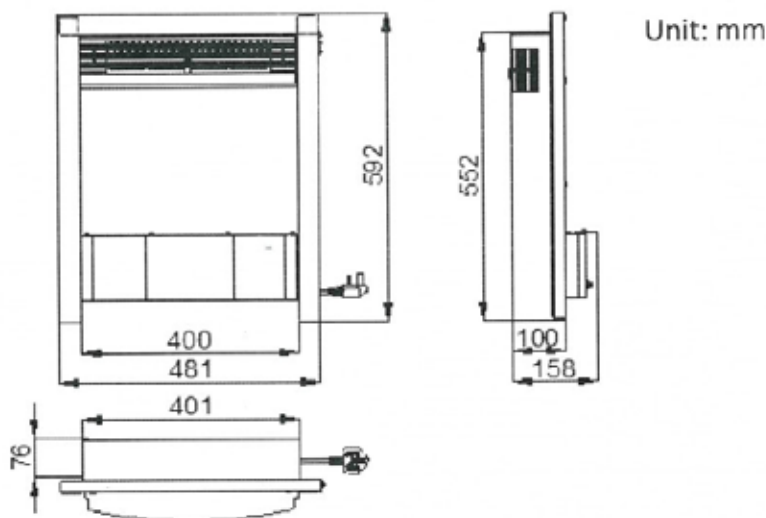
3.3 Save the original packaging as this may be required in the event of service complaint with product.

3.4 Check that all parts are removed from the packing.

A 	B 	C 
Alternative Shelf (1)	Drywall Anchors $\text{Ø}8 \times 40$ (4)	ST 5* 25 Screws (4)

<p>D</p> 	<p>E</p> 	<p>F</p> 
<p>Logs (1set)</p>	<p>Small Clear Faux Crystal (1set)</p>	<p>Small Black Faux Crystal (1set)</p>
<p>G</p> 	<p>H</p> 	<p>I</p> 
<p>Large Clear Faux Crystal (1set)</p>	<p>Medium Clear Faux Crystal (1set)</p>	<p>Natural Washed Coals (1set)</p>
<p>J</p> 	<p>K</p> 	<p>L</p> 
<p>Remote (1)</p>	<p>AAA Battery (2)</p>	<p>Instruction Manual (1)</p>
<p>M</p> 		
<p>Simplified Manual (1)</p>		

## 4. APPLIANCE DIMENSIONS



**NOTE:** A spacer frames for flat wall fixing can be purchased from your supplier.

## 5. INSTALLATION INSTRUCTIONS

### Tools Required

A screw driver and a spirit level and drill will be needed.

### Locating the Appliance

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

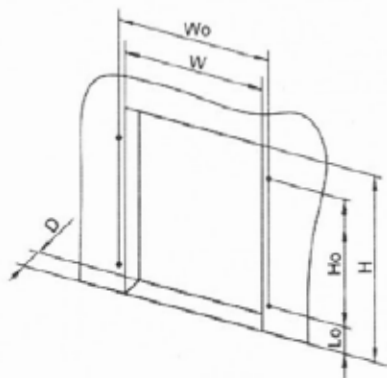
- 5.1 The appliance is designed to fit into a traditional 16" x 22" (406mm x 559mm) fireplace opening (after eliminating unwanted flue draughts) or simply in a fire surround or false chimneybreast of only 3" (75mm) depth against a blank wall. The appliance can be used in a fireplace setting with or without a surround and hearth.
- 5.2 The appliance should be connected to an earthed electrical outlet and it must be easily accessible to allow disconnection. The appliance should be connected to an earthed electrical outlet and it must be easily accessible to allow disconnection.

- 5.3 For best results, install out of direct sunlight.
- 5.4 If installing in an existing fireplace and chimney always block the chimney with fibreglass insulation or similar to prevent it sucking air away through the appliance. Failure to do this may cause poor performance and loss of heat or make the appliance cut out.
- 5.5 The appliance should be connected to an earthed electrical outlet and it must be easily accessible to allow disconnection.
- 5.6 THE APPLIANCE IS FITTED WITH AN INLET PLUG AND SOCKET UNDERNEATH THE RIGHT SIDE OF THE CASING. ALWAYS MAKE SURE THAT IT IS FULLY PUSHED IN AND SECURE BEFORE OPERATING THE FIRE. DAMAGE COULD OCCUR IF IT IS NOT FITTED PROPERLY.**
- 5.7 The electrical cable may be re-routed out of the rear or left side grommet holes of the fire base but the grommet **MUST** be correctly located in the exit slot to be used.
- 5.8 The product is fitted with a non-rewireable plug with a 13Amp fuse. Only competent persons should attempt replacement.

The wires in the mains cable of this appliance are coloured in accordance with the following code:

Blue = Neutral. Brown = Live. Green/yellow = earth.

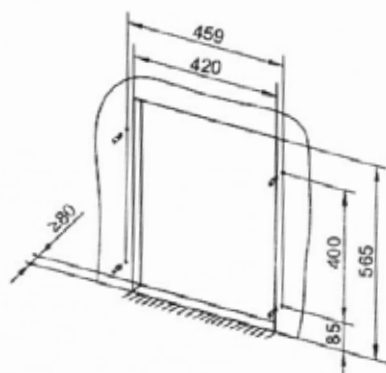
### Installation



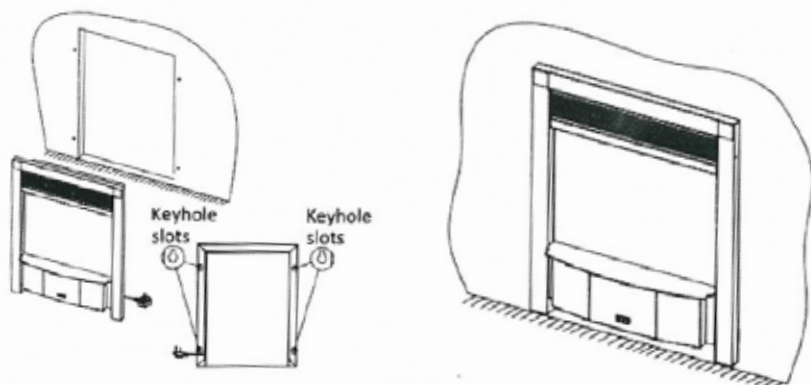
Opening Size For Insert			Positions for Fixing Screw		
W	D	H	Wo	Ho	Lo
420	≥80	565	459	400	85



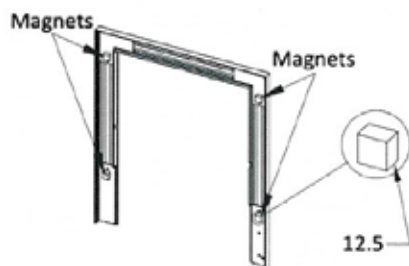
## Installation into a fireplace opening/insert:



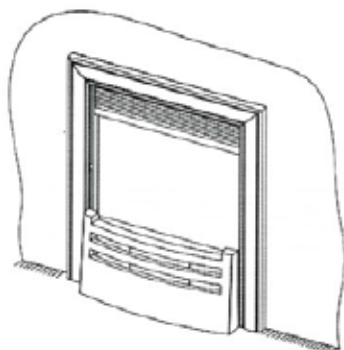
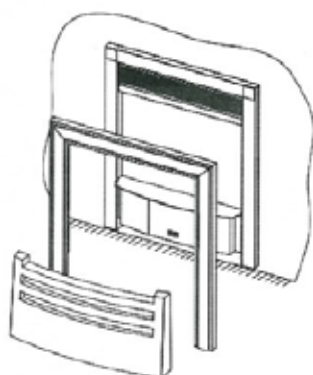
- 5.4a Carefully mark out the 4 fixing screw positions as above (positions for fixing screw: to dimensions  $W_o$ ,  $H_o$ , and  $L_o$ ).
- 5.4b Drill 4pcs  $\text{Ø}8$  holes on the wall. Put the plastic wall plug into the hole. If the wall is solid wood, it is no needed to drill the holes on the wood and no need of the plastic wall plug.
- 5.4c Fit 4 screws  $\text{ST5}\times 25$  leaving approximately 2mm projection between the panel and the underside of the screw head.
- 5.4d Lift the insert the appliance onto screws so that the keyhole slots locate on the screw heads.
- 5.4e Tighten the 4 screws to lock the appliance into position.



5.4f Put 4pcs magnets (with the size of 18×18×12.5) onto the frame.

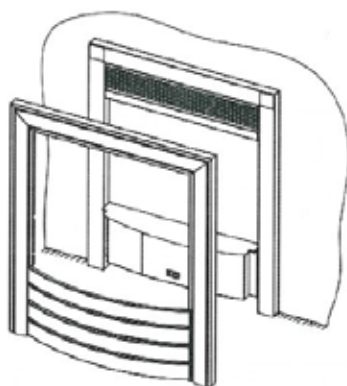
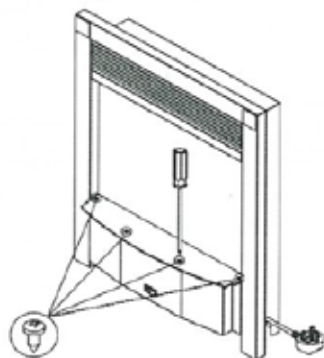


For the Trim TR1622-11C & fret:



5.4g Put the trim and fret onto front of the appliance. Then arrange the fuel bed to your own choice using the fuel bed items provided on the plastic shelf.

To use the appliance with the Elite Fascia: you will need to replace the plastic shelf with the alternative shelf provided before the installation of the appliance before carryout steps 5.4e to 5.4g above.

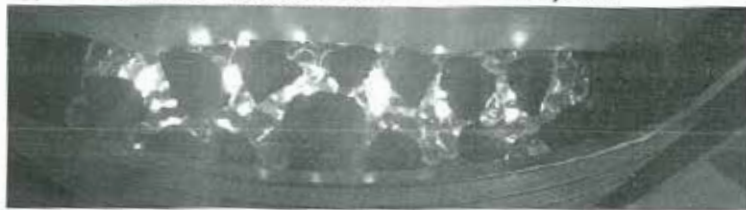


5.4h Remove 4pcs screws ST4×8 from the plastic shelf. Then remove the plastic shelf and replace with alternative shelf provided and secure with 4pcs st4×8 screws. Put the Elite Fascia onto the front of the appliance. Then arrange the fuel bed to your own choice using the fuel bed items provided on the plastic shelf.

### **Fuel Bed Arrangement**

For an attractive fuel bed arrangement its recommended that you put a layer of the small clear Faux Crystals on the fuel bed before laying the outer items of choice.

**Typical Fuel Bed :- Coal and Small clear Faux crystals**



**Typical Fuel Bed :- Logs and Small clear Faux crystals**



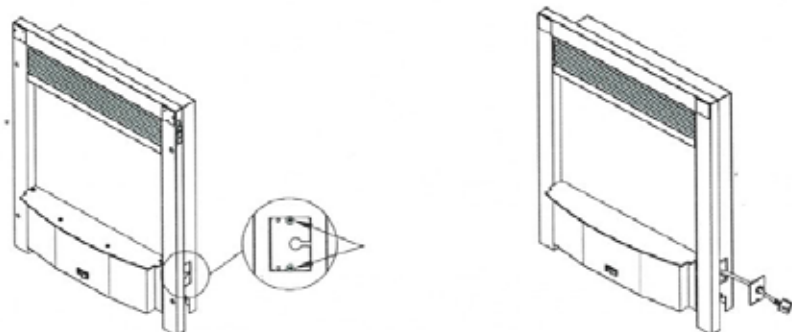
**Typical Fuel Bed :- Large clear Faux and Small clear Faux crystals**



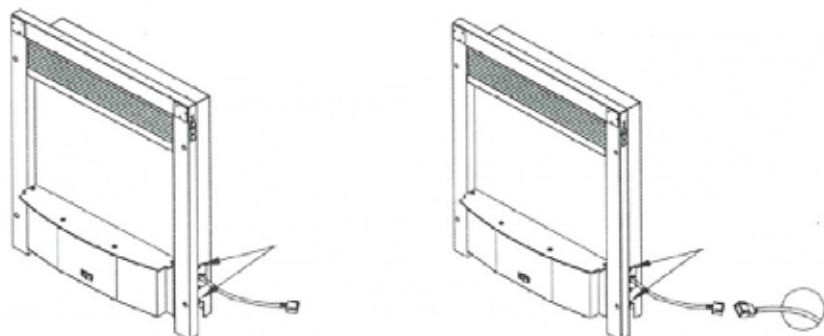
**Typical Fuel Bed :- Medium clear Faux crystals and Small clear Faux crystals**



## Mood Light Strip Connection (Note: Mood lights are an optional extra.)



- 5.4i Remove the two ST4×10 screws and the metal plate on the right lower side. Pull out the cable inside and thread it through the hole of the metal plate.

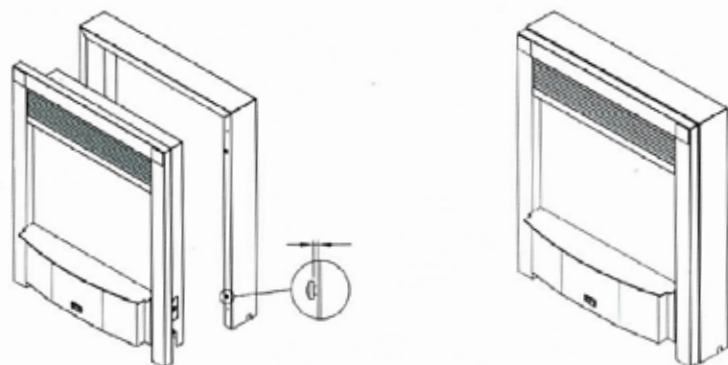


- 5.4j Fix the metal plate with two ST4×10 screws and connect the mood light strip various lengths available

**Note: Compatible mood lights are available from Charlton & Jenrick Ltd., and other makes may not be suitable and will void warranty.**

### Installation of Spacer

A spacer is available to use the appliance as a fully outset. Firstly, secure the spacer to the wall or fireplace (ensure the supply cable is passed under the cut out in the leg of the spacer) and then fix the appliance into the spacer using the 4 self-tapping screws provided.



5.4k Install four ST4×10 screws on both sides of the spacer and have about 2mm space as shown in the picture. Lift the insert into position so the keyhole slots locate on the screw heads. Lock the screws.

## 6. OPERATING INSTRUCTIONS

**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 reuse.

**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.

### PREPARATION BEFORE USE

6.1 The appliance can be operated by both remote control and the manual controls on the appliance.

**NOTE:** To use both remote and manual functions the manual on/off switch must be in 'ON' position. In order to prevent the product becoming too hot, there is 10s delay when turning on the heater and a 10s delay when turning off the heater fan.

### Batteries

Ensure that the handset batteries are new and inserted correctly.

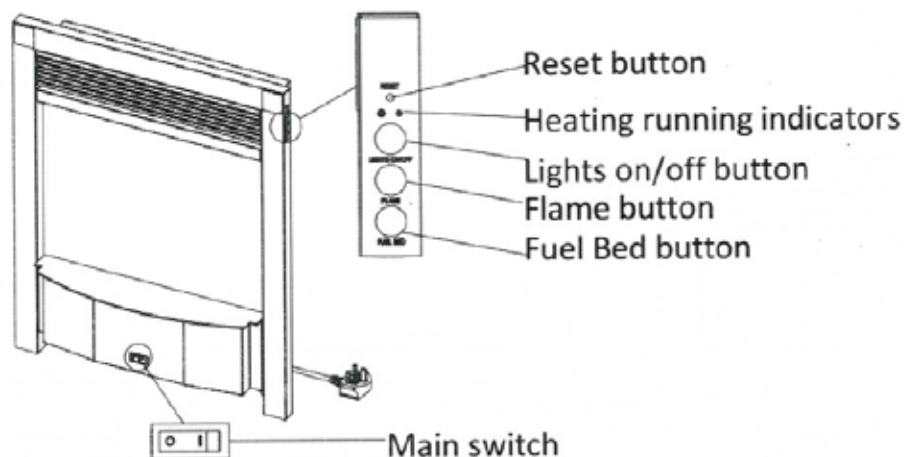
## Main Power Switch

6.2 The mains power switch is located on the front of the appliance and beneath the fuel bed.

6.3 Switch ON (—) before operating either the remote or manual controls.

6.4 A long beep is heard to indicate the fire is ready for use.

### 6a. MANUAL CONTROL PANEL



**NOTE: The manual button controls basic functions, not a full range of controls. Use the remote hand set to carry out all functions.**

6a.1 The manual buttons are located at the upper right of the appliance.

6a.2 Press "LIGHTS ON/OFF" to turn on or turn off both the flame and mood light at the same time.

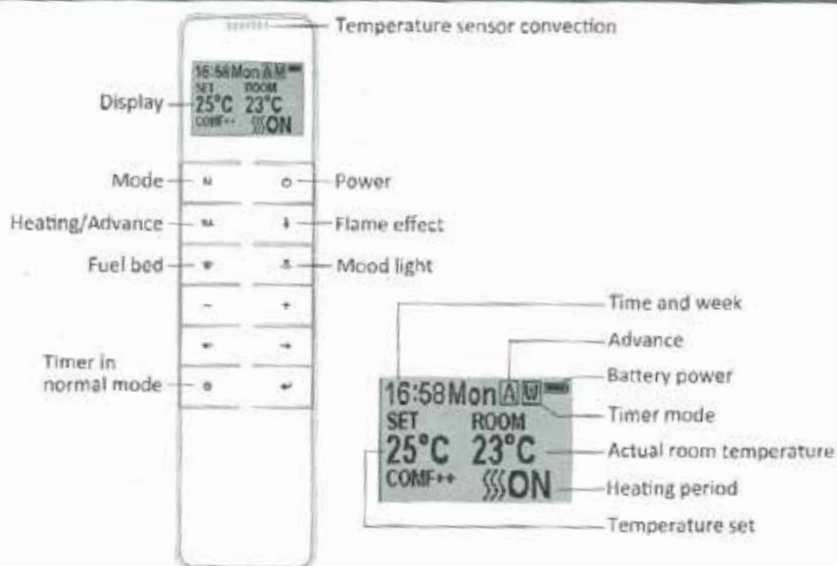
6a.3 Press "FLAME" button to select the colour of flame (3 kinds) or return to the OFF position.

6a.4 Press "FUEL BED" button to select the colour of fuel bed (13 kinds and a colour cycle mode) or return to the OFF position.

**NOTE: The controls on appliance will lose the memory for all function settings when the switch is set to the Off Position.**

When the remote runs out of power or when you change the batteries, only the flame function will lose memory and will not affect the timer settings, however, the clock may need adjusting.

## 6b. REMOTE CONTROLS




**NOTE:** This is thermostatic remote control. The remote should be in the same room as fireplace and placed on a flat surface. It must be placed away from the fire so the hot air will not blow on it and affect thermostatic reading.


The communication frequency between the fire and remote has already been set up. If you cannot use the remote with the fire, please follow instruction Step.6b37 to initiate this connection in point.

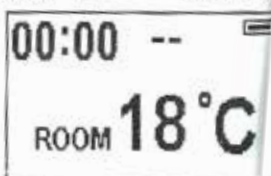
### Standby for Remote Handset

6b.1 The screen shown to the right is when the remote handset is in standby condition.

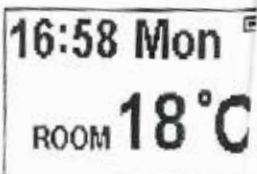
### Turn on/off

6b.2 Press  to turn on the flame effect, turn off flame effect and heater when in normal mode.

6b.3 Press  to turn on/off the flame effect




Before Day/Time set



After Day/Time set


under daily and weekly timer mode.

### Flame Effect

- 6b.4 Press  to enter the flame effect adjustment screen.
- 6b.5 Press the '←' and '→' button to select the 3 Kinds of flame effect.
- 6b.6 Press the '+' and '-' button to select the 5 brightness of flame effect and OFF settings.




### Fuel Bed Colour

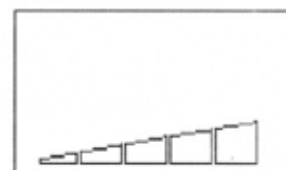
- 6b.7 Press  to enter the fuel bed adjustment screen.
- 6b.8 Press the '←' and '→' button to cycle through the 13 colours of fuel bed or a colour-cycle mode.
- 6b.9 Press the '+' and '-' button to to select the 5 brightness of fuel bed and OFF settings.



### Mood Light

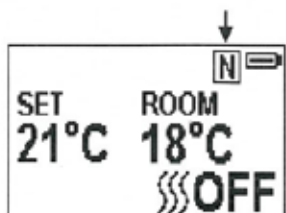
**Note:** If mood lights are not connected, please ensure the brightness is set to zero.

- 6b.10 Press  to enter the mood light adjustment screen.
- 6b.11 Press the '←' and '→' button to cycle through the 13 colours of mood light or a colour-cycle mode.
- 6b.12 Press the '+' and '-' button to to select the 5 brightness of mood light and OFF settings.






### Normal Mode

- 6b.13 Normal control mode is factory set. If it is not, then press **M** button until the logo **N** shows up at the upper right corner of the screen.






6b.14 Press the '+' and '-' button to adjust the temperature from 17°C to 25°C by 2 intervals.

6b.15 Press  A button to turn on/off heat,  ON,  OFF will show at the lower of the screen.

**NOTE:** It is normal for the fan heater to stop running for periods of time. This happens because the room temperature is at or above the temperature set on the remote control. The heater indicator will be turned off after 10s if you have the flame ON. The heater indicator will stay ON if you use the heating function only.

#### Count Down Timer


**NOTE:** This setting is only for normal mode. It allows the appliance to go into standby after a set period of time.

6b.16 Press  to cycle through the settings from Off and 0.5 hours to 9 hours. The timer logo and time will show on the screen.

The heater must be in ON position.

The heater can be automatically run by using daily timer and weekly timer on the remote.

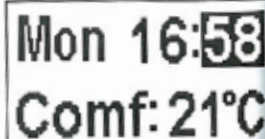
Set up Day, Time and Comfortable temperature.

6b.17 Press  to turn on the remote handset. Hold the button M for 3 seconds to enter the setting screen.

6b.18 Press the '←' and '→' button to choose Day, Time or your comfortable temperature. The character selected will be highlighted.

6b.19 Pressing the '+' and '-' button will adjust the number.

- Time: 24-hour system
- Select your comfortable temperature from



15-25°C.


- Temperature unit: °C、°F


### Daily Timer Heating


6b.20 The following are preset heating periods, which can be altered if desired

06:00 until 08:30

17:00 until 22:00

6b.21 Hold the arrow symbol button  for 6 seconds to enter The daily timer setting. Max 3 timed Heating periods per day.

6b.22 Hold the button  for 6 seconds to enter The daily timer setting. Max 3 timed Heating periods for a day.

- Press '←' or '→' to choose hour or minute, press '+' or '-' to set the time.
- Minute will increase/decrease by 15 minutes per press.
- Hold  for 3 seconds or wait for 10 seconds to save and exit the heating time period setting.

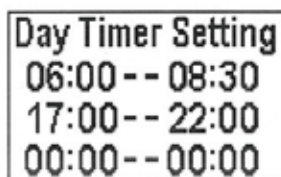
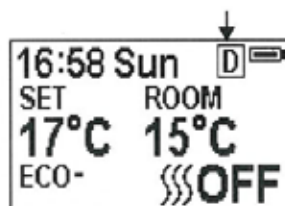
6b.23 Adjusting the set temperature

- Press the '+' or '-' button to increase or decrease the temperature on the basis of your comfortable temperature setting.
- ECO means 2°C lower than your comfortable temperature setting,  
ECO- means 4°C lower,  
COMF+ means 2°C higher,  
COMF++ means 4°C higher.

6b.24 To check your daily timer settings, press .

6b.25 If heating needs to be turned off, it will be necessary to go back to the Normal Mode to turn off.

### Week Timer Heating



6b.26 The following are preset heating periods, which can be altered if desired.

From Monday to Friday

06:00 until 08:30

17:00 until 22:00

From Saturday to Sunday

06:30 until 09:30

11:00 until 13:00

17:00 until 22:00

6b.27 Press **M** until **W** shows at the upper right corner of the screen, then enter the week timer heating mode.



6b.28 Hold **←** button for 6 seconds to enter the week timer setting.

- Press '**←**' or '**→**' to move the cursor (a flashing underline), press the **←** button in the corresponding week position to select (the character is highlighted) or cancel (the character is displayed normally) the current setting. Several days can be selected together.
- Press the '**→**' button to move the cursor to the time period setting area. Press '**←**' or '**→**' to choose hour or minute, press '**+**' or '**-**' to set the number.
- Max 3 heating periods for a day.
- Minute will increase/decrease by 15 minutes per press.
- Press the **←** to set the heating time for the selected day(s) and return to the week line.
- Hold **←** for 3s or wait for 10s to save and exit the heating time period setting.



6b.29 Press **←**, '**←**' and '**→**' to check your week Timer settings.



6b.30 If heating needs to be turned off, it will be necessary to go back to the Normal Control Mode to turn off.

## Advance Mode

6b.31 Under the daily and week timer mode, Press

⏏ A:

6b.32 To turn the heater off when the heater is on during a preset heating period.

6b.33 To turn the heater on when the heater is off in between preset heating periods.



## Adaptive Start Control

6b.34 According to room temperature and set temperature, the heater will automatically come on in time to heat the room to the set temperature 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 will come on at 17:30 to ensure the room is 23°C at 18:00.

## Window Open Detection

6b.35 When the transmitter detects a rapid drop in room temperature, it will be judged as a window open, the warning icon will be displayed and the heating will be turned off automatically.

6b.36 After the indoor temperature has risen or a manual override of the warning (by operating remote control) has been done, the fire will return to normal working state.




## Set up the communication between the remote and appliance

6b.37 The below operations should be carried out before programming, when changing to a new remote or in the event the appliance cannot be controlled by the remote:

- Hold the reset button on the appliance for 3 seconds (pen Point may needed) until you hear 3 short beeps from the unit, release the

button.

- Press the  button on the remote, the programming is finished when you hear 1 long beep from the appliance.



6b.38 Resetting the code for remote control is necessary if the appliance operates wrongly or the remote control does not operate correctly.

- Open the back cover of the remote control.
- Press the Reset button on remote handset.
- Follow the steps 6b.37

### Resetting the Thermal Cut Out

6b.39 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. Re-setting of the E.S. Control proceeds as follows:

6b.40 Switch off the appliance (Manual On/Off switch) and leave it off for approximately 10-15 minutes.

6b.41 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.

6b.42 Switch on the appliance and the E.S. Control will be re-set.

6b.43 Ensure that the appliance is functioning correctly. If the E.S. Control operates again, the appliance should be checked by a competent electrician.

## 7. MAINTENANCE

**WARNING:** Before any maintenance or cleaning of the exterior of the fireplace, the unit should be disconnected from the power supply until it is cool off.

### Remote Handset Battery Replacement

Control PCB	Remote Control Receiver	Remote Control Transmitter
Hardware: RC01-040A05 Software: V1	Hardware: RF290B V1.2	Frequency: ASK/OOK 433.92MHZ Maximum transmit power: 10mW Hardware:RF290A-TX-V1.3 Software:V2.4.1




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3.EF.196.05.110

- 7.1 When the batteries are at full power, the battery symbol will show 
- 7.2 When the batteries are half full, the battery symbol will show 
- 7.3 When the batteries are out of power and need replacing immediately, the battery symbol will show 
- 7.4 Battery replacement is recommended after 1 year. The batteries are 1.5V alkaline AAA, batteries.
- 7.5 Dispose of old batteries at an appropriate recycling facility.

### Cleaning the Fireplace

Cleaning or polishing products are not recommended. Fingerprints or other marks on the front glass panel can be removed by a piece of 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.

**CAUTION:** Abrasive cleaners should not be used on the glass panel. Liquids should not be sprayed directly onto any surface of the unit.

## 8. OTHERS



### Environment

Meaning of crossed-out wheeled dustbin:

Electrical appliances should not be disposed as unsorted municipal waste. Separate collection facilities should be used in the disposal of electrical appliances. Contact your local government for the 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. When old appliances are replaced by the new ones, it is a legal obligation for the retailer to take back the old appliance for disposals at least free of charge.



This fire complies with the Safety Standards EN 60335-1 and EN 60335-2-30 which covers the essential requirements of the Low Voltage Directive 2014/35/EU and the EMC standards EN 55014-1; EN 55014-2; EN 61000-3-2 and EN 61000-3-3 which covers the essential requirements of the European Electro Magnetic Compatibility 2014/30/EU, and the RED standards EN300220-2, EN301489-1, EN301489-3 and EN6247 which covers the essential requirements of the European Radio Equipment Directive 2014/53/EU.