

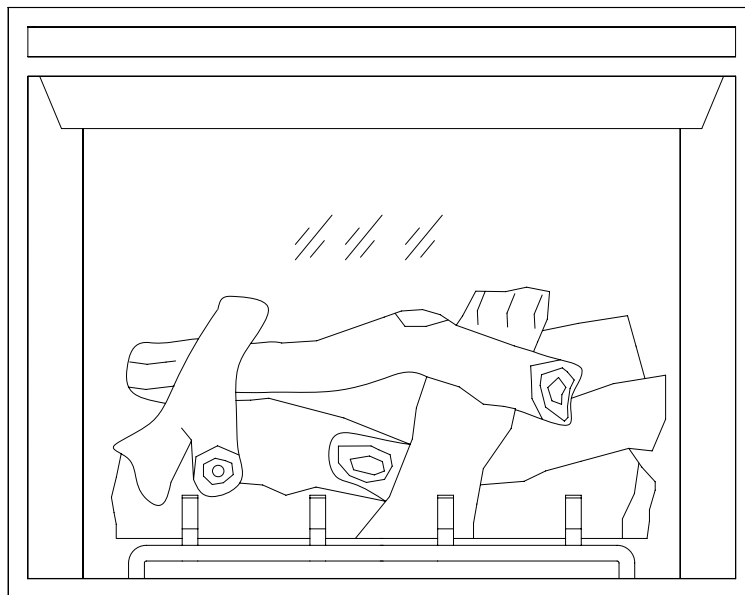
# Homeowner's Installation Instructions & Operating Manual

**ELECTRIC HEATER WITH REMOTE CONTROL**  
**Model: EF42D, EF43D, EF44D, EF45D**

**READ AND SAVE THESE INSTRUCTIONS**

READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE OR MAINTAIN THE PRODUCT DESCRIBED.

PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.



**WARNING! To reduce the risk of fire, electric shock, or personal injury, read all the instructions before using this heater.**

Ningbo Richen Electrical Appliance Co.,Ltd.  
No. 639, Jiulong Road, Luotuo Town, Zhenhai, Ningbo, P.R. China

# IMPORTANT INSTRUCTIONS

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:

**CAUTION-** High temperature, keep electrical cords, drapery, and other furnishings at least 3 feet (0.9m) from the front of the heater and away from the side and rear.

1. Read all instructions before using this appliance.
2. Do not use outdoors.
3. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
4. Children should be supervised to ensure that they do not play with the appliance.
5. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes and curtains at least 3 feet (0.9m) from the front of the heater and keep them away from the sides and rear.
6. Extreme caution is necessary when any heater is used by or near children or invalids and whenever the heater is left operating unattended.
7. Unplug power cord before servicing or moving the heater. Always unplug heater when not in use.
8. Do not operate any heater with a damaged cord or after the heater malfunctions, has been dropped or damaged in any manner. Return heater to authorized service facility for examination, electrical or mechanical adjustment, or repair.
9. This heater is not intended for use in bathrooms, laundry areas and similar indoor locations. Never locate heater where it may fall into a bathtub or other water container.
10. Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or the like. Arrange cord away from traffic area and where it will not be tripped over.
11. To disconnect heater, turn controls to off, then remove plug from outlet.
12. Connect to properly grounded outlets only.
13. Do not insert or allow fingers or foreign objects to enter any ventilation or exhaust opening as it may cause an electric shock or fire or damage the heater. Do not block or tamper with the heater in any manner while it is in operation.
14. To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not use on soft surfaces, like a bed, where openings may become blocked.
15. A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint, or flammable liquids are used or stored.
16. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electrical shock, or injury to persons.
17. Where possible, avoid the use of extension cords because the extension cord may overheat and cause a risk of fire.
18. This heater includes an overheat protection system that shuts off the heater when parts of the heater are getting excessively hot. If the heater shuts off, immediately turn the heater OFF and inspect for any objects, on or adjacent to the heater, which may cause high temperatures. **DO NOT OPERATE THE HEATER UNTIL IT IS RESET.** To reset the heater, turn it OFF, unplug it from the electrical outlet, and wait five to ten minutes for the unit to cool down before plugging it back in and turning the heater on.
19. Make certain that the power source conforms to the electrical requirements of the heater.
20. To prevent a possible fire, do not block air intakes or exhaust in any manner. Do not place heater on soft surfaces, like a bed, where openings may become blocked.
21. A heater has hot and arcing or sparking parts inside. It must NOT be used in potentially dangerous locations such as flammable, explosive, chemical-laden or wet atmosphere. This heater is intended for use in general use only.

**WARNING: DO NOT DEPEND ON THE ON/OFF SWITCH THE SOLE MEANS OF DISCONNECTING POWER WHEN SERVICING OR MOVING THE HEATER. ALWAYS UNPLUG THE POWER CORD.**

**WARNING: REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK---DO NOT USE THIS HEATER WITH ANY SOLID STATE SPEED CONTROL DEVICES.**

22. SAVE THESE INSTRUCTIONS.

# INSTALLATION INSTRUCTION

## TOOL REQUIRED

Magnetic Phillips Screw Driver



Unpacking the Electric Fireplace:



**WARNING!** Do NOT use this Electric Fireplace if any part has been under water. Immediately call a qualified service technician to inspect and to replace any part of the electrical system if necessary. Keep plastic wrapping away from children.

- Open the packaging carefully and remove the foam.
- Remove and discard the plastic bag.
- Be responsible when handling the packing materials.
- Keep the original packaging for future transport and/or storage.
- Check all accessories are got before you keep the packing.

## PARTS AND HARDWARE LIST

Remote control 1pc  
 Button cell battery 1pc  
 Instruction manual 1pc

## PRODUCT SIZE

<p>Fireplace insert for rear fix</p>	<p>Fireplace insert for front fix</p>
<p>Fireplace mantel</p>	

### A. Fireplace insert for rear fix:

units: mm

Model	Width (W)	Height (H)	Depth (D)	Mantel opening size		Mantel Minimum Depth (RD)
				Width (OW)	Height (OH)	
EF42D	580	520	220	584	523	230
EF43D	660	600	220	664	603	230
EF44D	760	600	220	764	603	230
EF45D	840	660	220	844	663	230

**B. Fireplace insert for front fix:**

units: mm

Model	Width (W)	Height (H)	Depth (D)	Mantel opening size		Mantel Minimum Depth (RD)
				Width (OW)	Height (OH)	
EF42D	630	545	220	580-610	510-540	205
EF43D	710	625	220	660-690	590-620	205
EF44D	810	625	220	760-790	590-620	205
EF45D	890	685	220	840-870	650-680	205

**LOCATING YOUR ELECTRIC FIREPLACE**

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. Power supply service must be either completed or placed within the electric fireplace prior to finishing to avoid reconstruction.

**WARNING!** Keep drapery and other furnishings at least 3ft /0.9m from the front and sides of the electric fireplace.

**Clearance to Combustibles**

- Sides .....0 in. (0 mm)
- Floor ..... 0 in. (0 mm)
- Top .....0 in. (0 mm)
- Back .....0 in. (0 mm)

**Installation:**



**NOTE!**

- After installation, ensure that there is  $\geq 0.004 \text{ m}^2$  ventilation area between inside and outside of fireplace mantel;

**A. Rear fix:**



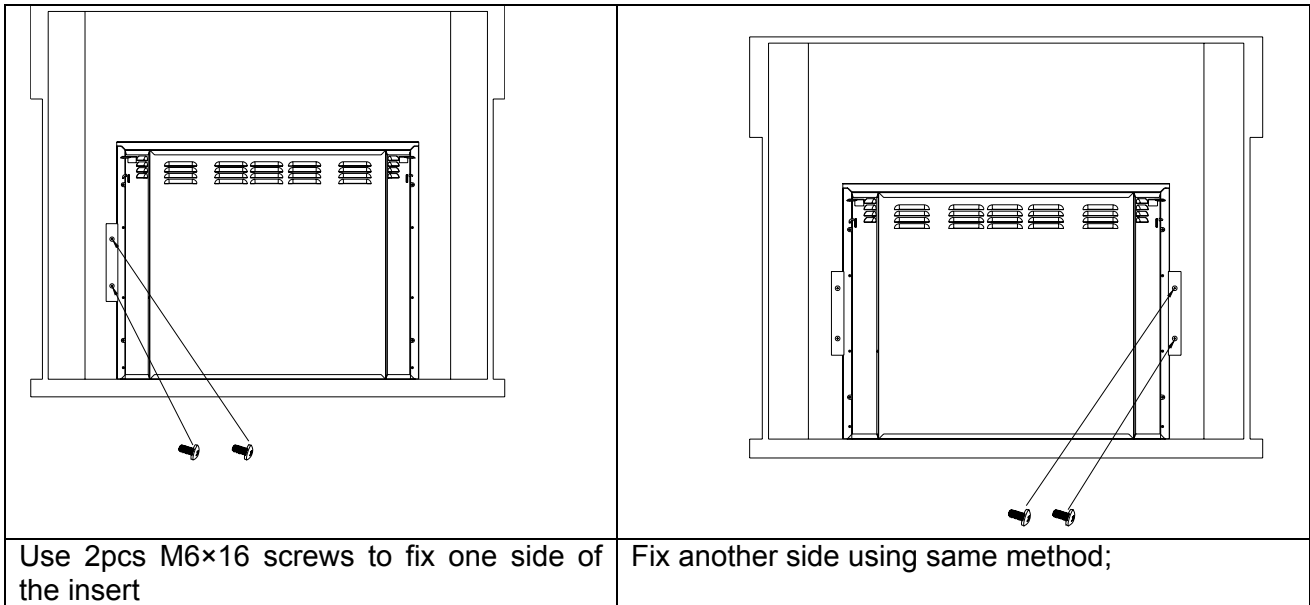
**CAUTION!**

- Install this appliance from the back of the mantel in order not to scratch mantel bottom panel.
- Only use screws supplied with this appliance in order not to damage mantel.

**Step 1.** Install side fixing brackets, see pictures:

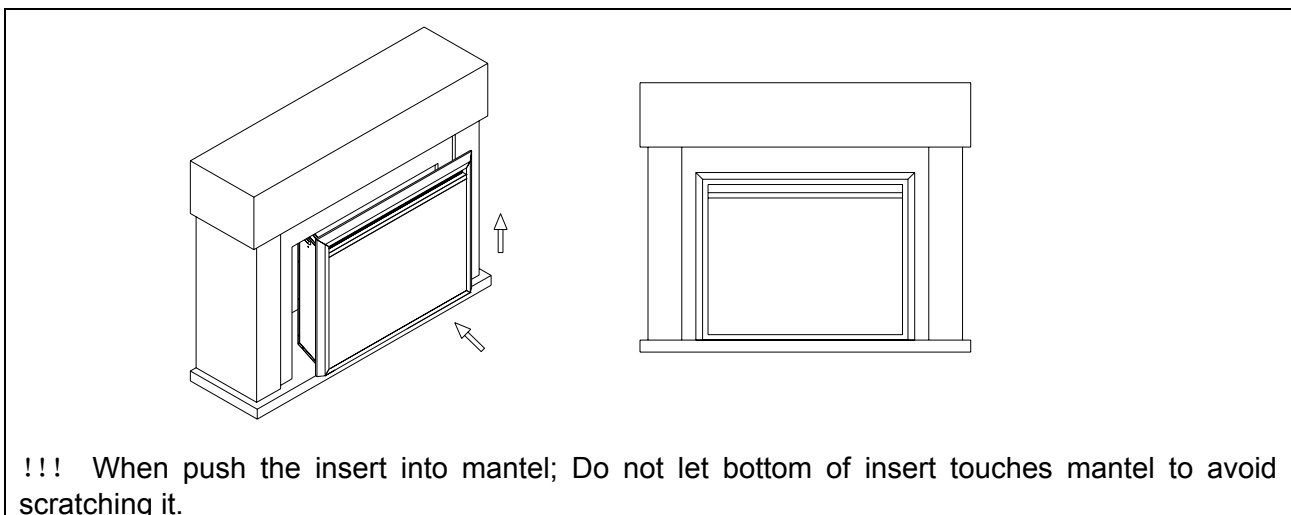
Spare parts: 2pcs side fixing brackets and 4pcs M6×16 screws	Install the insert from the back of the mantel;

## Step 2. Install insert



### B. Front fix:

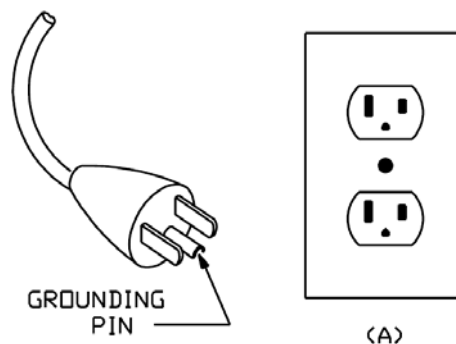
Install insert:



## GROUNDING

Plug the power supply cord into a wall outlet (120Vac, 60Hz). The cord has a plug as shown at A. You should follow as shown at the below:

Grounding methods



# ELECTRICAL CONNECTION

A 15 AMP, 120 Volt, The unit comes standard with 6 feet (1.8 m) three wire cord, exiting from the rear of the fireplace. Plan the installation to avoid the use of an extension cord. Preferably, the fireplace will be on a dedicated circuit as other appliances on the same circuit may cause the circuit breaker to trip or the fuse to blow when the heater is in operation.

# OPERATING INSTRUCTION

This appliance can be operated by both remote control and manual button. Once the unit has been properly connected to an earthed electrical outlet, turn on the main power switch located on the left hand side of the appliance. A beep should be heard when the power is first applied.



**CAUTION!** The unit's power cord must be connected to a properly grounded and protected 120V outlet. Always use ground fault protection where required by the electrical code.

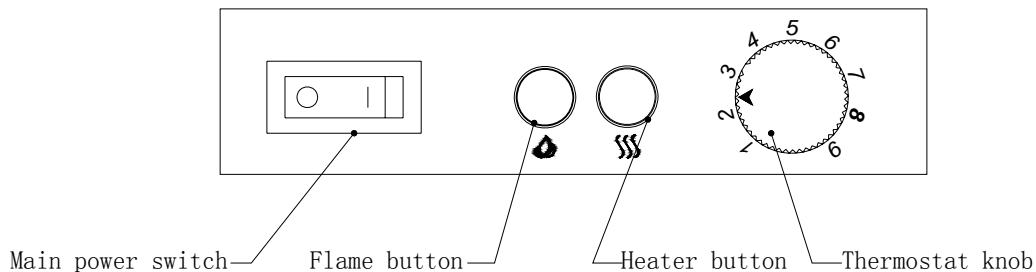


**WARNING!** Do not operate the unit if it is damaged or has malfunctioned. If you suspect the unit is damaged, please call a qualified service technician to inspect and to replace any part of the electrical system if necessary.

**NOTE!** To use both remote and manual function. As the main power switch must be in "ON" position.

## ● Operating by Manual Button

**NOTE!** The manual button on the fireplace unit is not provide you with all function control, and its propose is to control some basic function when you lose the remote handset. Please use the remote handset to carry out all functions.



**NOTE:** The lights will always on when the appliance is on.

### Main power switch

The POWER switch supplies power to all of the functions of the fireplace. This switch must be in the "ON" position for any of the functions including the remote to work.

### Flame button

By pressing the FLAME button, the unit will cycle through five flame effect. If you need more flame, please use the remote handset.

### Heater button

Press once HEATER button to turn to LOW setting. (Pilot lights illuminated ●○).

Press again turns heater to HIGH Setting. ( Pilot lights illuminated ●●)

Press third time turns to OFF setting. ( Pilot lights illuminated ○○).

There are 3 levels you can cycle through including the OFF setting.

**Thermostat control**

1-9 Step, room temperature is around 9-34°C。 If room temperature is too high, please turn the thermostat knob counter-clockwise direction; if you need to turn on the heater, you can turn the thermostat knob clockwise direction.


**To Reset the Heater**






Your heater includes a protection system that shuts off the heater if it overheats for any reason:

- 1) Turn unit to off.
- 2) Unplug unit wait 5 minutes.
- 3) Plug in and turn on.

● **Remote control functions**

Note: The fireplace Main Power Switch must be switched ON in order for the Remote Control to function.



Icons	Name	Function
	Power	This button is used to turn the appliance ON/OFF; When turned on, flame, lower fuel bed and downlight will be in working condition; When turned off, everything is off;
	Flame	This button is used to change flames; The fire has four flame effects, by pressing the flame effect button the unit will cycle through each effect.
	Lower fuel bed	This button is used to change the lightness of lower fuel bed; The fire has five steps of lightness, by pressing this button the unit will cycle through each effect.
	Downlight	This button is used to turn downlight ON/OFF in order to increase the brightness of the hearth;
	Heater	1. 1000W: One heat indicator light illuminates; heater will be on about 8 seconds later; Indicator light then goes off; 2. 2000W: Both indicator lights illuminate; heater will be on about 8 seconds later; Indicator lights then go off;

**Note:**

- Flame, lights, fuel bed LED (including heater indication LED) cannot be turned off at the same time;
- When only the lights are not closed, then they cannot be closed;
- If one of Flame, fuel bed LED and heater indication LED is not closed; when closed, lights will be turned on at the same time;
- In order to protect the product not becoming too hot, there is 8s delay when turning on the heater; also there is 8s delay when turning off the heater fan.

**NOTE: This remote control uses 1 CR2032 Lithium Ion button cell battery (Included). Never dispose of batteries in fire, except under conditions of controlled incineration. (Failure to observe this precaution may result in an explosion.)**

NOTE: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation. Modifications not approved by the party responsible for compliance could void user's authority to operate the equipment.

This Class B digital apparatus complies with Canadian ICES-003.

## MAINTENANCE

**WARNING: ALWAYS UNPLUG THE CORD BEFORE MOVING OR SERVICING.  
DO NOT IMMERSER HEATER IN WATER!**

- Always turn OFF the heater and disconnect the cord from the electrical outlet before cleaning your heater.
- Light accumulated dust may be removed from the heater with a soft cloth or vacuum cleaner.
- Wipe the exterior surfaces of the heater occasionally with a slightly damp cloth (not dripping wet) using a solution of mild detergent and water. Dry the case thoroughly before operating the heater.

**Caution:** Do not allow water to run into the interior of the heater as this could create a fire or electric shock hazard.

- The fan motor is factory lubricated for life and will not require further lubrication.
- Store heater in a clean dry place when not in use.

**Warning:** Any other servicing needed must be performed by an authorized service representative. Do not attempt to service the unit yourself.