

### **Models**

ES750	ES1500
ES1000	ES1800
ES1300	ES2200



## **Electric Fire Series**

Maintenance and service guide

# **Rinnai**

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# Important

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This information is being made available to qualified tradespeople such as licensed electricians. It is not intended for use by non-qualified people or members of the public.

Rinnai appliances **MUST BE** serviced by an authorised person, in accordance with the manufacturer's service instructions and all applicable local rules and regulations.

## **Warning**

Improper installation, adjustment, alteration, service and maintenance can cause property damage, personal injury or loss of life.

## **Help is here**

For more information about buying, using, and servicing of Rinnai appliances call: 0800 RINNAI (0800 746 624).

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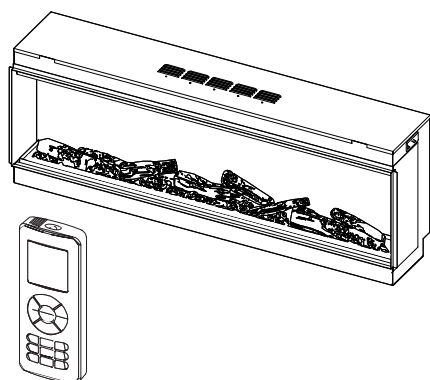
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## Parts lists

The exploded diagrams and parts lists have not been published in this manual due to the frequency in which they change. Please refer to the Rinnai website ([rinnai.co.nz](http://rinnai.co.nz)) for the latest spares PDF's.

# Specification summary



Electric flame effect fires with realistic flame pattern, operated by remote control. Six models to choose from.

Suitable for indoor domestic heating applications only.

## Features

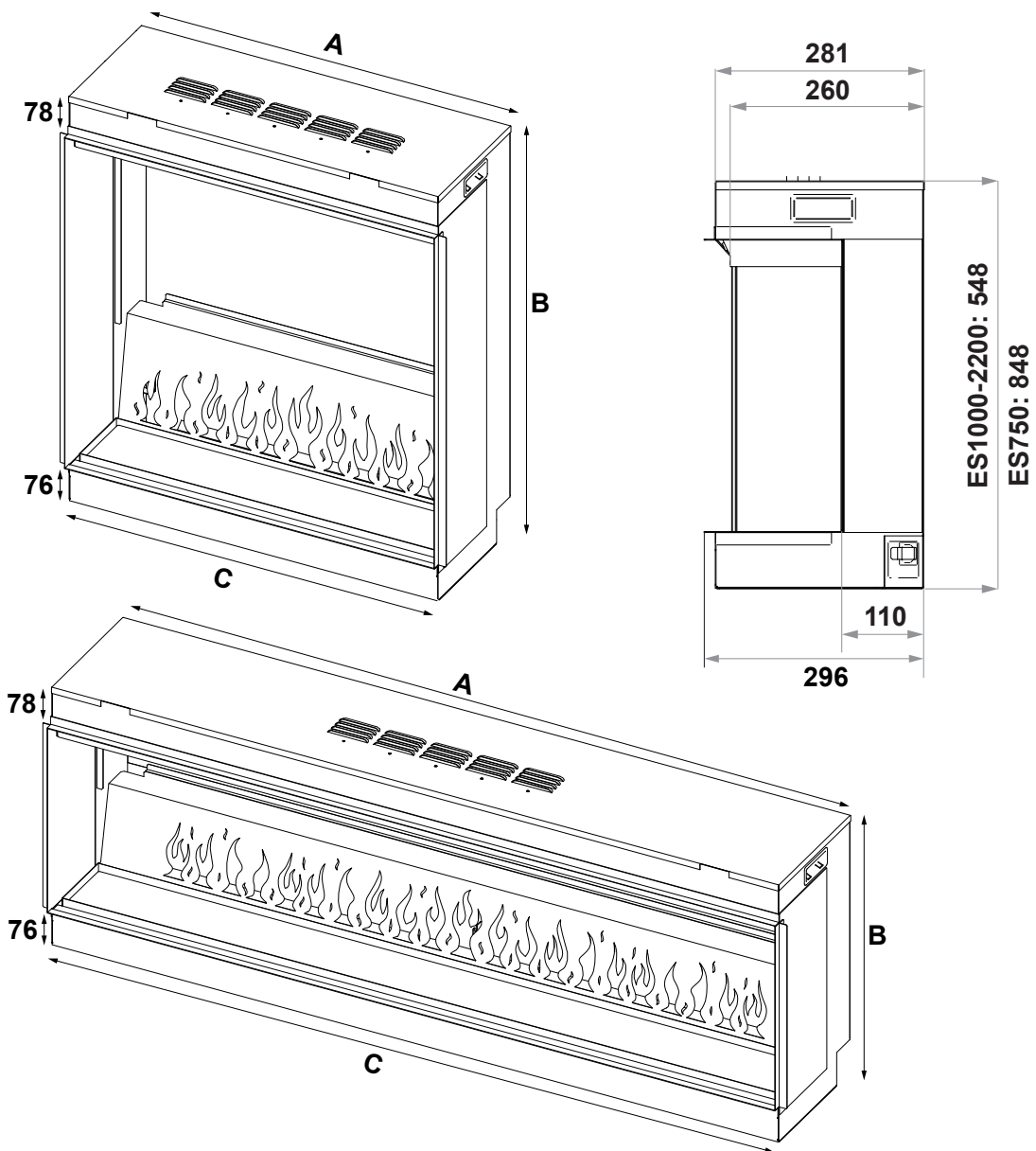
- Realistic glowing fuel bed with burning embers
- Easy to install
- Three independently controlled lighting effects
- Six preset trilight themes
- Open door/window detection

<b>Heat output</b>	Nominal - 2.0 kW Minimum - 1 kW					
<b>Heating modes</b>	Three heating modes, and a cool blow function					
<b>Data plate position</b>	Left hand side on the underside of the appliance					
<b>Electrical supply</b>	230-240 V AC, 50 Hz Ensure voltage and frequency of the power supply correspond to the ratings on the data plate of appliance.					
<b>3-pin plug type</b>	10 A, power cord 1.6 m, right hand side (looking at unit)					
<b>Max. power consumption</b>	2000 W					
<b>Power for flame effect</b>	<b>750</b> 28 W	<b>1000</b> 40 W	<b>1300</b> 50 W	<b>1500</b> 52 W	<b>1800</b> 62 W	<b>2200</b> 80 W
<b>Weights (kg)</b>	<b>750</b> 47.5	<b>1000</b> 44.5	<b>1300</b> 54.3	<b>1500</b> 59.3	<b>1800</b> 70.8	<b>2200</b> 87.0

## Auxiliary electricity consumption

- At nominal heat output - 12.5 W
- At minimum heat output - 12 W

# Dimensions



Model	Firebox width back - A	Firebox total height - B	Glass width - C
ES750	780 mm	848 mm	750 mm
ES1000	1030 mm	548 mm	1000 mm
ES1300	1330 mm	548 mm	1300 mm
ES1500	1530 mm	548 mm	1500 mm
ES1800	1830 mm	548 mm	1800 mm
ES2200	2230 mm	548 mm	2200 mm

# Repair and maintenance

The Rinnai ES fires are low maintenance and only require the glass to be cleaned, and dust removed from the vents and burn media. In case of repairs, it is recommended that cleaning is done at the same time.



Make sure to find out the electrical connection of the appliance before attending a repair job. If the unit is hard wired, specialist trades may be required to disconnect the unit before the unit can be serviced and repaired.

Electrical components should only be replaced by an authorised person (licensed and registered electrician). The appliance should be isolated from the power supply and tested to ensure safe isolation.

The following components can be replaced if there is a fault:

- Flame spindle
- Transformer
- Downlight LED board
- Fan heater unit
- Flame LED boards
- Flame motor
- Manual control panel
- PCB

## General clean



### Remove dust from the air vent

Dust accumulates over time, impacting the unit's efficiency. Remove by sweeping dust from the air vent, using a soft brush, into the vacuum.



### Clean the outer glass

Wipe the outer glass with a soft damp cloth. Do not use abrasive cleaners and do not spray liquids directly onto any surface of the unit.

To access the log set pieces and back glass panel for cleaning, the outer glass lower retaining panel and the outer glass will need to be removed, refer next page.



### Remove lower glass retaining panel

To be able to remove the glass, the lower retaining panel must be removed first using the magnet tool.

1. Position the magnet onto the panel and twist.
2. Using the magnet ring, pull, lift out the metal panel, and place to one side.



### Remove outer glass

Place glass suckers either side of the glass panel, try and keep the position even so when the glass comes off the weight is equally distributed. Ensure the suckers are fixed in place before tilting and lifting the glass.



### Clean back panel

Once the outer glass is removed, clean the back panel with a soft clean cloth.



### Clean log set

Clean each piece of the log set using a soft brush.

# Dismantling for repair

To replace a number of components in the unit will require removing the fuel bed tray, side glass panels, and glass back panel.

## Remove fuel bed tray

Remove the fuel bed tray by removing the screws and lifting the tray from the appliance.





### Remove side glass panels

The side glass panels can be easily removed by lifting up and out of the retainers.



### Remove back glass panel

Using the glass suckers pull the bottom of the glass, tilt and remove from the unit. It may be necessary to loosen the top glass retaining bar.



# Replacing the flame spindle

- Remove the fuel bed tray
- Remove side glass panels
- Remove glass back panel

Remove the flame silhouette panel. Then unscrew the spindle centre support to detach the rubber connector from the motor to remove the spindle



# Replacing the transformer

- Remove the fuel bed tray
- Remove side glass panels
- Remove glass back panel

The transformer can be disconnected and unscrewed from the appliance.



# Replacing the downlight LED board

- Remove the fuel bed tray
- Remove side glass panels
- Remove glass back panel

Remove the downlight LED board by removing the two screws either side.  
Carefully lower the downlight LED board and unplug the unit.  
Connect a replacement downlight LED board and secure using the two screws,



# Replacing the fan heater unit

1. Remove the downlight LED board by removing the two screws either side.
2. Carefully lower the downlight LED board and unplug the unit.
3. Remove the screws securing the fan heater panel and lower it. Unplug the fan heater unit and remove. Offer up the new fan heater and connect it to the appliance.



# Replacing the flame LED boards

- Remove the fuel bed tray
- Remove side glass panels
- Remove glass back panel

Remove silhouette panel. Unscrew spindle centre support and detach rubber connector from motor to remove the spindle. (refer page 10). The LED boards can now be unscrewed and disconnected.



# Replacing the flame motor

- Remove the fuel bed tray
- Remove side glass panels
- Remove glass back panel

Remove silhouette panel. Unscrew spindle centre support and detach rubber connector from motor to remove the spindle. (refer page 10).

Unscrew the three mounting screws from the motor and gently lift away. Unplug the connector and remove the motor from the unit.



# Replacing the manual control

Remove the screws from the PCB panel and lower to reveal the connections. Remove the screws from the manual control panel, there are two screws above and two screws underneath. Move the manual control panel out of the unit and disconnect it.



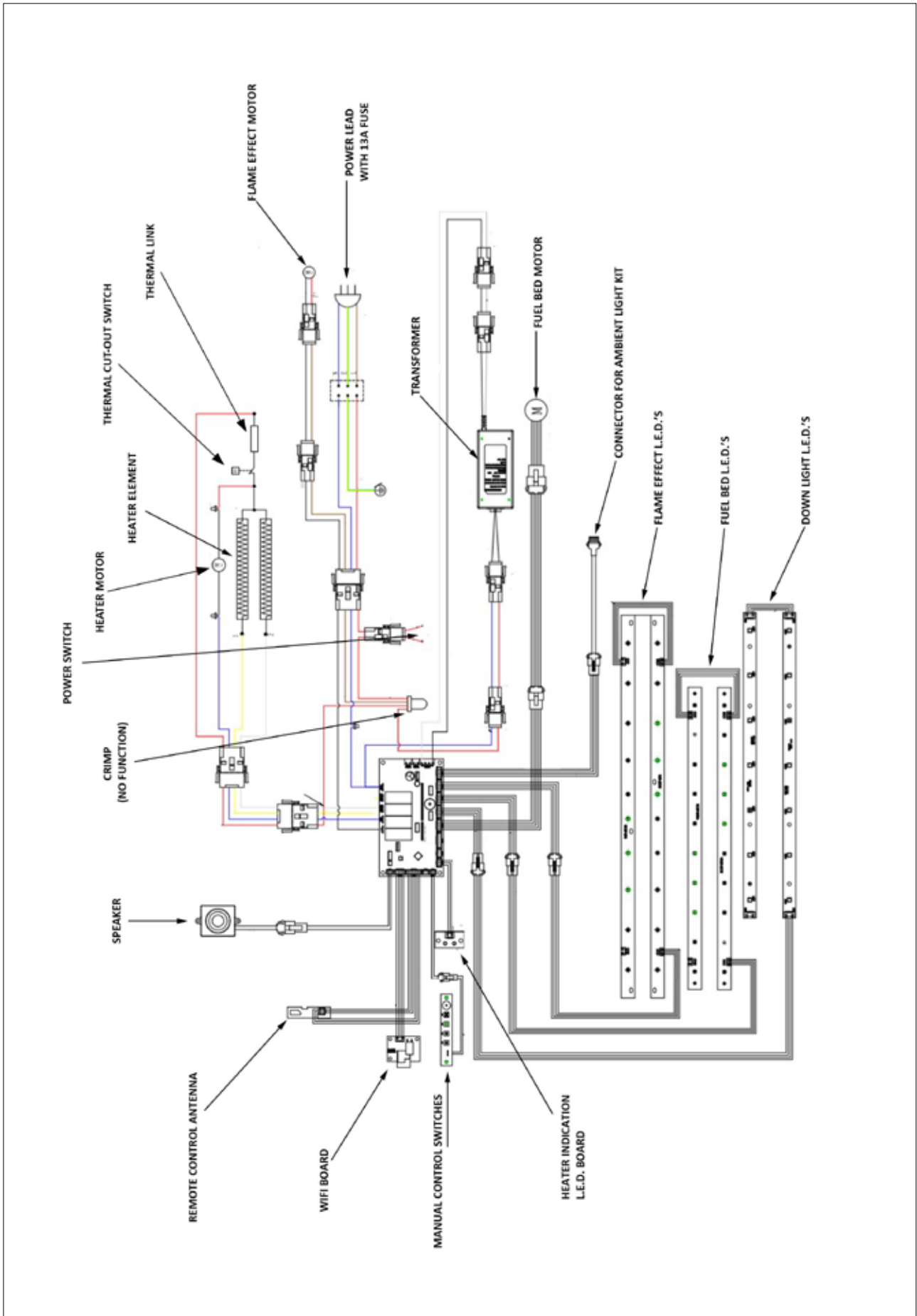


# Replacing the PCB

Remove screws from the PCB panel and lower to reveal connections. Disconnect and replace.



# Wiring diagram





**Rinnai.co.nz**

Tel: 0800 746 624

<http://www.youtube.com/rinnainz>

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