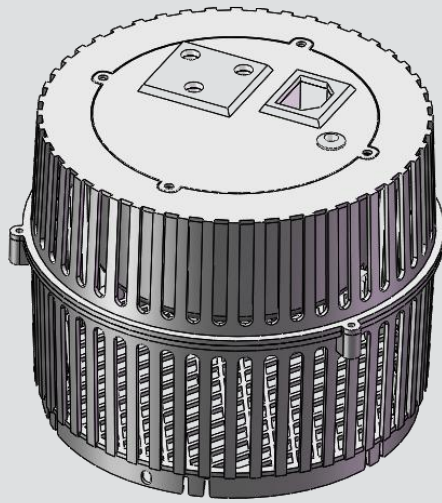


**MODEL:
RP-F1R**



**Plasma Filter
Operation/Installation Manual**

Rinnai

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IMPORTANT

To register your product warranty, please paste the serial numbers stickers enclosed with the packaging on your warranty card.

Please contact your local Rinnai After Sales Service Center should you require further assistance.

Intended Use

Please read this user manual thoroughly before attempting to use this plasma filter for the first time. This manual contains important information on safe installation, use and care of this filter. Retain these instructions for future reference and pass on to the next user.

This plasma filter can only be used safely if it is correctly installed according to the safety instructions. The installer is responsible for ensuring that the appliance works correctly at its installed location.

This plasma filter is intended for domestic use and household environment only. Do not use the plasma filter for other uses than its specific purpose. Do not leave the appliance unattended during operation.

This plasma filter is intended to remove airborne dust particles, pollen, micro-organisms (house dust mites, bacteria, viruses and moulds), cigarette smoke and smells from the air. Presence of smell will still be present when you are cooking and can only be completely removed after you had finished your cooking. Harmful gases (carbon monoxide etc.) cannot be removed.

The plasma filter produces ozone, the amount will depend on the time you use the filter. When the plasma filter is placed in a well ventilated room, the amount emitted is within the set safety limits and standard. A slight ionisation smell will be present during usage and do not indicate a faulty connection or device

This appliance may be used by children over the age of 8 years old and by persons with reduced physical, sensory or mental capacity or by persons with a lack of experience or knowledge if they are supervised by someone who is responsible for their safety or have been instructed in how to use the appliance safely and have understood the risks involved in not using it properly.

Children must not play with the appliance. Cleaning and user maintenance must not be performed by children unless they are over 15 years of age and are supervised. Keep children below the age of 8 years old at a safe distance from the appliance and power cable.

Check the appliance for damage after unpacking it. Do not connect the appliance if it has been damaged during transport.



Important

This plasma filter is intended for use in combination with an extractor hood with metal grease filters

The manufacturer is not liable for any damage which is caused by improper use or incorrect operation.

Safety Information



Warning – Suffocation

- Packaging material is dangerous to children. Never allow children to play with packaging material.



Warning – Risk of Fire

- Do not operate the extractor without a grease filter. It is important to clean and/or replace the grease filters at appropriate intervals. Grease deposits build-up increases the risk of fire.
- Do not flambé or grill with an open flame directly under the extractor hood. Flames could be drawn up into the hood by the suction and the grease filters may catch fire. Do not install the extractor hood near a heat producing appliance for solid fuel (e.g. wood or coal) unless a closed, non-removable cover is available. There must be no flying sparks.
- Monitor cooking continuously as overheated oil increases the risk of self-ignition. Never use water to put out burning oil or grease. Switch off the cooker. Extinguish flames carefully using a lid, fire blanket or something similar.
- Never leave high naked flames under the extractor hood when it is in operation. An extractor hood installed above the cooker may become damaged or catch fire. Always cover lit burners with cookware.
- Ensure that the power supply cord is free from any heat source or sharp objects.
- Multiple plugs and extension cables must not be used. Overloading is dangerous and may cause a fire.
- Operating several gas burners at the same time gives rise to a great deal of heat. An extractor hood installed above the cooker may become damaged or catch fire.



Warning – Risk of Burns

- Accessible parts become very hot when in operation. Never touch hot parts. Keep children at a safe distance.
- Appliance becomes hot during operation. Allow the appliance to cool down before cleaning.



Warning – Risk of Injury

- Incorrect repairs are dangerous. Repairs should be attempted by our qualified technical personnel's only. If the appliance is defective, unplug the appliance from the mains or switch off the circuit breaker in the fuse box. Contact your local Rinnai After Sales Service Center for assistance.

- It is dangerous to modify any part of this appliance. Tampering with electrical connections or mechanical parts can cause operation faults and may put the user at risk.
- Do not use any high pressure cleaners or steam cleaners, which can result in an electric shock.
- Penetrating moisture may result in an electric shock. Clean the appliance using a damp cloth only. Before cleaning, pull out the mains plug or switch off the circuit breaker in the fuse box.
- Components inside the appliance may have sharp edges. Wear protective gloves.
- Lighting emitted by the LED lights are very dazzling and can damage the eyes. Do not look directly into lighted LED lights for longer than 100 seconds.



Warning – Risk of Electric Shock

- A defective appliance may cause electric shock. Never switch on a defective appliance. Unplug the appliance from the mains or switch off the circuit breaker in the fuse box. Contact your local Rinnai After Sales Service Center for assistance.
- Incorrect repairs are dangerous. Any repairs and replacements of damaged power cable or components should be attempted by our qualified technical personnel's only. Contact your local Rinnai After Sales Service Center for assistance.
- Penetrating moisture may result in an electric shock. Clean the appliance using a damp cloth only. Before cleaning pull out the mains plug or switch off the circuit breaker in the fuse box.



Warning – Cause of Damage

- Always switch on the appliance while cooking to avoid condensation. Condensation can produce corrosion damage.
- Always replace faulty lights to prevent the remaining lights from overloading.
- Do not clean the controls with a wet cloth as this may risk damage due to ingress of humidity into the electronic circuitry.
- Clean all stainless steel surfaces in the direction of the grain only as incorrect cleaning may damage the stainless steel surface. Do not use any stainless steel cleaners for controls.
- Never use strong and abrasive cleaning agents as this may cause damage to the stainless steel surface
- There is a risk of surface damage if you do not peel off the protective film. Remove the protective film from all parts of the appliance before using the appliance for the first time.

Environmental Protection

Energy Saving

- During cooking ensure that there is a sufficient supply of air to enable the extractor hood to work efficiently and with a low level of operating noise.
- Adjust the fan speed to the amount of cooking vapor produced during cooking. Only use intensive / booster mode when required. Operating the fan speed at lower levels consumes less energy.
- Switch off the extractor hood if you no longer require it.
- Clean and replace the grease filters at regular intervals in order to increase the effectiveness of the extractor hood and to prevent the risk of fire.

Disposal

- This appliance and its packaging are environmentally friendly and recyclable. Please help us to care for the environment by disposing the packaging in a proper manner and recycling any old appliances.
- Before disposing an old appliance, disconnect it from the power supply and cut the power supply cord to prevent hazards.

Operating Instructions



Warning: Only use the plasma filter in combination with an extractor unit with metal grease filters. Always ensure that the plasma filter is in a location with good oxygen supply and good permanent ventilation. Please refer to your extractor hood user manual.

Operating the Plasma Filter on the Extractor Hood

Touch the sensor buttons gently on the control panel on the extractor to operate this appliance.

To achieve better air extraction, it is advisable to switch on the extractor hood a few minutes before starting to cook and leave it on for approximately 15 minutes after cooking or at least all cooking smell is completely removed.

The plasma filter uses a sensor switch that reacts to the air flow from the extractor hood. When the extractor hood is switch ON, the air pass through a sensor to activate the plasma filter automatically. It may take approximately 20 to 30 seconds to activate the plasma filter depending on the type of extractor hood.

The indicator lamp on the plasma filter will light up and an audio signal will sound to indicate that the plasma filter is now switch ON.

Care and Maintenance



Warning: Before carrying out any cleaning or maintenance activities, ensure that the appliance is disconnected from the main power supply.

Components inside the appliance may have sharp edges. Wear protective gloves.

Cleaning Agents

To ensure that the different surfaces are not damaged by using the wrong cleaning product, follow the instructions in the table. Do not use any of the following:

- Harsh or abrasive cleaning agents, e.g. scouring powder or liquid scouring cleaner
- Cleaning products with a high alcohol content
- Hard scouring pads or cleaning sponges
- Pressure washers or steam cleaners
- Cleaning products that dissolve limescale
- Aggressive all-purpose cleaning products

Note: Use a new soft sponge or cloth. Do wash thoroughly before each use. Never use a wire sponge or brush as it may leave scratches or other marks and follow all instructions and warnings included with the cleaning products.

Surface	Instruction
Stainless Steel	Clean with warm soapy water using a soft damp sponge or damp cloth Wipe off with a dry lint free cloth to avoid smearing or staining on the hood Clean in the direction of the grains only
Painted Surface	Clean with warm soapy water using a soft damp sponge or damp cloth Wipe off with a dry lint free cloth Do not use any stainless steel cleaner
Aluminium and Plastic	Clean with warm soapy water using a soft damp sponge or soft damp cloth Wipe off with a dry lint free cloth
Glass	Clean with a solution of warm water and a little washing up liquid using a soft damp sponge or damp cloth Wipe off with a dry lint free cloth Do not use a scraper
Controls	Clean with warm soapy water using a soft damp sponge or soft damp cloth Wipe off with a dry lint free cloth Never clean the controls with a wet cloth as there is a risk of damage to the electronics

Grease Filter



Warning: It is important to regularly clean and/or replace the grease filters at appropriate intervals as grease deposits build-up increases the risk of fire. Do not operate the plasma filter and the extractor hood without any grease filter installed.

Components inside the appliance may have sharp edges. It is advisable that you wear protective gloves.

Removing the Grease Filter (Fig.1)



Fig.1

- Push open the lock and gently pull down the grease filter at the same time take hold of the grease filter from underneath using your other hand.
- Remove the grease filter out of the grease filter

Note: Grease deposits may accumulate in the bottom of the grease filter. Hold the grease filter flat to prevent any grease or fats from dripping out of the filter.

Cleaning the Grease Filters

- Do not use any aggressive, acidic or alkaline cleaning products.
 - The grease filters must be removed and cleaned every 4 weeks depending on the frequency of usage or when the orange indicator light flashes on the control panel display window.
 - When cleaning the grease filters, also clean the grease filter holder and all accessible parts in the appliance using a damp cloth.
 - The grease filters can be cleaned in the dishwasher or by hand.
- If by hand washing: Soak the filters in warm detergent solution (approx. 40C) to simplify the removal of grease. Brush the grease filters, rinse thoroughly and leave it to dry before refitting.
- If by dishwasher: Use normal domestic dishwashing detergent, select an appropriate wash program (no more than 70C), do not clean heavily soiled grease filters together with any cookware. Place the grease filters in the dishwasher leaving plenty of space around them. Leave it to dry before refitting.

Note: A slight discolouration of the grease filter may occur. This discolouration has no effect on the performance of the grease filters

Installing the Grease Filter

- Insert back the grease filter and lock it in place, at the same time take hold of the grease filter from underneath using your other hand to insert into the grease filter holder, make sure the grease filter is positioned correctly.
- If the grease filter has not been inserted correctly, open the lock and reinsert it again.

Cleaning the Appliance Body

- Clean the extractor hood using warm detergent solution and a soft damp cloth. After cleaning, dry it using a lint free cloth.
- Avoid using corrosive or abrasive products that could damage the surface.
- Do not clean the controls with a wet cloth as this may risk damage due to ingress of humidity into the electronic circuitry.

Cleaning the Plasma Filter

- Little maintenance is needed as the plasma filter is cleaned automatically as soon as it is put into operation. The electrodes exhibit a very long lifetime and are nearly indestructible in destined operation.
- The activated carbon filter is regenerated at each process, keeps its pores clean and is expected to last for not less than 6 years if the activated carbon filter is use for not more than 4 hours a day. Usage of more than 4 hours a day will reduce the lifespan of the activated carbon filter.

Note: It is important to follow the maintenance instructions of your extractor hood. The grease filter must be clean regularly and/or replace at appropriate intervals to prevent contamination.

Periodic Maintenance for Plasma Filter

To ensure that your plasma filter is in satisfactory working condition, contact your local Rinnai After Sales Center once every 5 years to do periodic inspection on the plasma filter.

Trouble Shooting



Warning: Incorrect repairs are dangerous. Repairs should be attempted by our qualified technical personnel's only. If the appliance is defective, unplug the appliance from the mains or switch off the circuit breaker in the fuse box. Contact your local Rinnai After Sales Service Center for assistance.

Problem	Possible Cause	Solution
The Extractor Hood Does Not Work	No electricity supply Faulty Fuse	Check power plug is connected properly and main power switch is turned on Check fuse box of the extractor hood to make sure fuse is not blown
Whirring Sound	Foreign object may be in contact with fan blade	Please contact your local Rinnai After Sales Center
Motor is Running but No Air Flow	Non return flap might be jammed	Please contact your local Rinnai After Sales Center
Lights are Not Working	The LED lights are defective	Please contact your local Rinnai After Sales Center
The Plasma Filter Does Not Work	No electricity supply Faulty Fuse Power Trip	Check power plug is connected properly and main power switch is turned on Check the fuse box of the plasma filter to ensure fuse is not blown Check if other electrical appliance are working
The Indicator Lamp on the Plasma Filter Did Not Light Up	Air Sensor Switch might be faulty PCB Board Failure	Please contact your local Rinnai After Sales Center
Audio Signal is Not Functioning	PCB Board Failure	Please contact your local Rinnai After Sales Center

If problem persist after the above checks, please contact your local Rinnai After Sales Center for assistance.

Please quote the model number of your appliance as shown on the rating plate.

For service calls under warranty, it is necessary to produce your proof of purchase and valid warrant card.

Please be aware that a visit by an after sales engineer might be charged if a problem arises to be the result of user's error even during warranty period.

Note: Rating plate is for illustration purpose only and its specification may varies across models

Rinnai Plasma Filter

MODEL : RP-F1R
TYPE : PLASMA FILTER
INPUT POWER : 10W
LAMP : 0.05W
POWER SUPPLY : 220-240V~ 50/60Hz
CABLE LENGTH : 1m



Installation Instructions



Warning: Components inside the appliance may have sharp edges. Wear protective gloves.

Safety and General Information

- Read these instructions carefully. Check the appliance for damage after unpacking it.
- The appliance can only be used safely if it is correctly installed according to the safety instructions. The installer is responsible for ensuring that the appliance works correctly at its installed location.
- The surfaces of the appliance are easily damaged. Avoid damaging them during installation.
- Changes to the electrical or mechanical assembly are dangerous and may lead to malfunctions. Do not make any changes to the electrical or mechanical assembly.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or qualified technical personnel in order to avoid a hazard.
- Components inside the appliance may have sharp edges. These may damage the connecting cable. Do not kink or pinch the connecting cable during installation.
- This appliance is intended to be mounted on the wall.
- The extractor hood may fall down if it has not been properly fastened in place. All fastening components must be fixed firmly and securely
- The extractor hood is heavy. To move the appliance 2 people are required. Use only suitable tools and equipment.
- The extractor hood can be installed over any gas and electric cooktop. Minimum installation height from the bench top to the bottom of the hood is 700mm (gas range) and 550mm (electric range).
- Always mount the extractor hood over the center of the hob.
- Ensure that the appliance is installed in a location with good permanent ventilation.
- When making electrical connections, check that the mains voltage and frequency corresponds to the technical information shown on the rating plate.
- Electrical connection must be made in accordance with local standards only. Check that the voltage in your area is correct before plugging in.

- The appliance must only be connected to a protective contact socket that has been correctly installed.
- The mains plug of the mains power cable must be easily accessible after installation of the appliance. If this is not possible, an all-pole isolating switch must be integrated into the permanent electrical installation
- The permanent electrical installation must only be wired by a professional electrician.
- It must always be possible to disconnect the appliance from the electricity supply.

Note: The manufacturer will not be held liable for any damages resulting from improper installation nor failure to adopt proper safety measures during installation and operational use of the appliance.

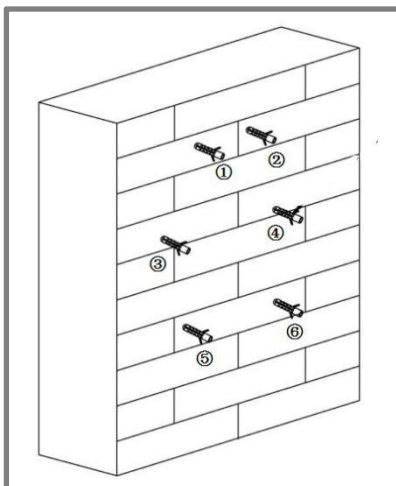
Checking the Wall

- Do ensure the wall must be level, vertical and adequately loadbearing.
- The depth of the bore holes must be the same length as the screws. The wall plugs must have a secure grip.
- The enclosed screws and wall plugs are suitable for solid brickwork. Suitable fasteners must be used for other structures (e.g. plasterboard, porous concrete, poroton bricks).
- The max weight of the extractor hood is 18kgs.

Preparing the Installation

Ensure that there are no electrical wires, gas pipes or water pipes in the area where holes are to be drilled.

Step 1 (Fig.2)



- Determine where the extractor hood should be positioned and lightly mark where the lower edge of the appliance should be on the wall. Determine where the middle should be based on the hob.
- Place the template against the line drawn on the wall and tape it in place. Mark the area where the screws should be inserted.
- Drill 8mm diameter holes to a depth of 40mm for fastening the appliance, remove the template and press in the wall plugs flush with the wall and mount the screws (Do not tighten) (Fig 2)

Attaching and Aligning the Extractor Hood

Step 2 (Fig.3, Fig.3.1, Fig.3.2)

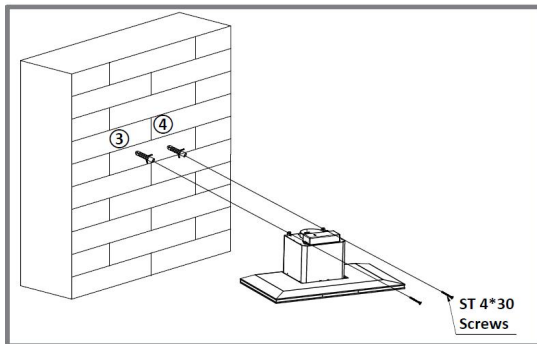


Fig.3

- Mount the appliance onto the wall and do ensure that it is properly engaged with the mounting screws 3 & 4 (Fig.3)

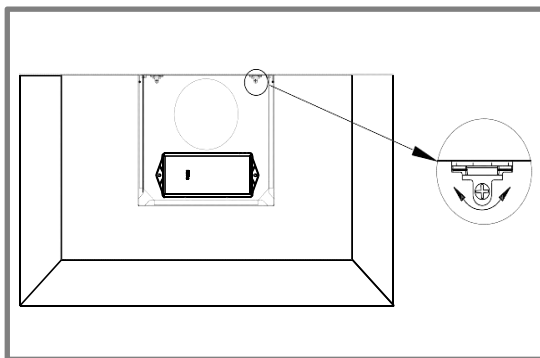


Fig.3.1

- If there is a need to realign the appliance, adjust the screws on the top of the motor housing (Fig.3.1)

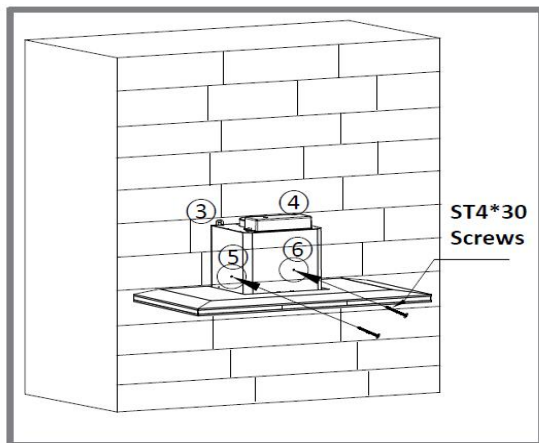


Fig.3.2

- Tighten the screws 3, 4, 5, 6 firmly after realignment. (Fig. 3.2)

Mounting the Plasma Filter onto the Extractor Hood



Warning: Failure to install the screws or fixing the device in accordance with these instructions may result in electrical hazards.

The appliance must be installed by a qualified person in compliance with the instructions provided

Step 3 (Fig.4, Fig 4.1, Fig.4.2, Fig.4.3)

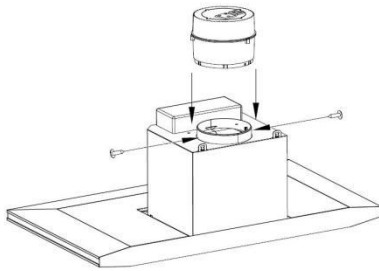


Fig.4

- Mount the plasma filter carefully and level on the motor housing. Use the screws provided (ST3.9*12mm screws) to clamp the filter firmly. (Fig.4)

Universal Socket

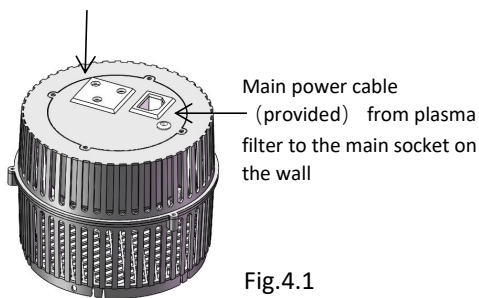


Fig.4.1

- Check the corresponding power sockets before plugging in the power cable. (Fig.4.1)

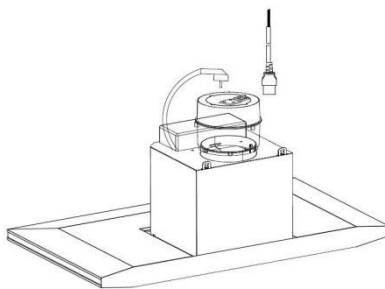


Fig.4.2

- Connect the existing power cable from the extractor hood to the plasma filter universal socket (Fig.4.2)

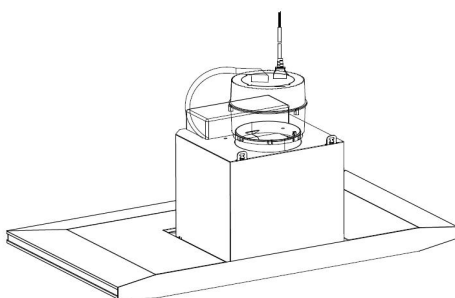


Fig.4.3

- Connect the main power cable (provided) from the plasma filter to the main power socket on the wall. (Fig.4.3)
- Switch ON the extractor hood to activate the plasma filter. Air flow will pass through a sensor to activate the plasma filter automatically. It may take approximately 20 to 30 seconds to activate the plasma filter. An audio signal will sound to indicate that the plasma filter is now switch ON.

Attaching the Flue Ducts

Step 4 (Fig.5, Fig.5.1, Fig.5.2)

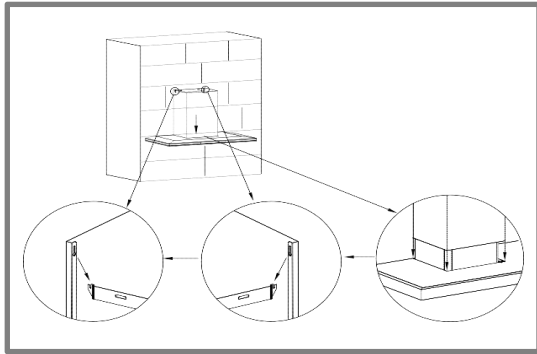


Fig.5

- Secure the mounting bracket onto the screws firmly 1 & 2 and place the outer flue duct onto the appliances. (Fig. 5).
- Slide the outer flue duct section downwards, attached it to the left and right of the retaining bracket to engage it. (Fig. 5)

Note: To prevent scratches, lay paper over the edges of the lower flue duct to protect the surface.

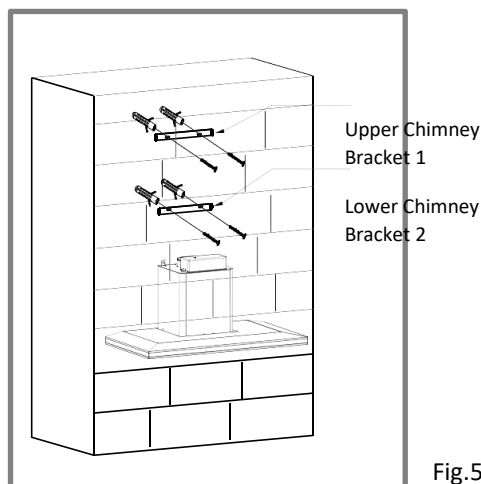


Fig.5.1

- Slide the inner flue duct to the required height and mark where the screws should be inserted and drill 8mm diameter holes to a depth of 40mm and secure the mounting bracket onto the screws provided. (Fig. 5.1)

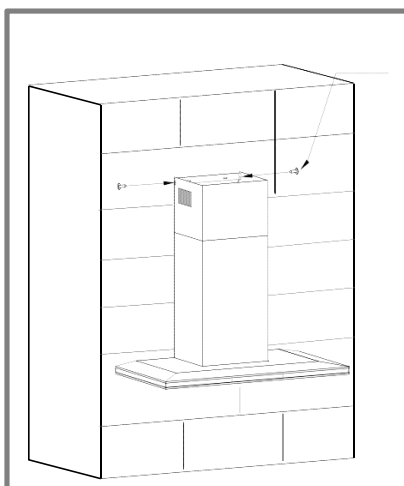


Fig.5.2

- Use the provided ST4*8 screws to attach the inner flue duct on the left and right sides of the bracket. (Fig. 5.2)

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