

Technical details for solid fuel Rayburn Royal

Please note that the site preparations must be carried out in full before the fitting of the cooker can take place.

Dimensions

Height	32.25 inches	820mm
Width	33 inches	840mm
Depth	20 inches	510mm
Height with the lids raised	48 inches	1245mm
Centre of flue to side (left or right)	3.5 inches	88mm
Centre of flue to back of cooker	4 inches	100mm

THE HOT WATER SYSTEM

With normal usage in 24 hours continuous burning, the Rayburn Royal has an approximate output of 100,000 Btu. and the Rayburn Regent and No.1 have an approximate output of 90,000 Btu. To provide 2 or 3 hot baths at intervals and normal household requirements, the following conditions must be fulfilled:

The capacity of the storage cylinder may not exceed 35 gallons. The recommended capacity is 30 gallons (direct or indirect)

The cylinder to be effectively lagged, and be fixed vertically.

The cylinder should be as near as possible to the cooker. In no case may 1 in flow and return pipes exceed 30ft. each in length. 1 1/4 in. pipes may not exceed 24 ft.

1 in. flow and return pipes exceeding 15ft. each in length must be lagged. 1 1/4 in. pipes exceeding 12 ft. must be lagged

The draw-off pipe to the taps must be a 'dead-leg' connection from the expansion pipe.

A towel rail of not more than 6 sq. ft. heating surface may be heated provided the flow and return pipes are not more than 15ft. each in length, and provided the cylinder and towel rail are lagged.

When the hot water storage cylinder is very closely coupled to the boiler, a towel rail is advisable as heat leak and lagging should not be applied. A radiator is not permitted.

To obtain the above-mentioned outputs the fire must be left in overnight, and the cooker used for cooking.

Important

The above instructions must be strictly observed. If they are disregarded (e.g., an unlagged or oversize cylinder), consumption of fuel may be excessive, and the cooker damaged by overfiring.

PREPARATION OF THE SITE

When a properly constructed hearth is not available we recommend that the Rayburn Cooker be placed on the slab of foamed slag concrete not less than 4 in. thick, or on a slab of other material providing equal insulation. The flue chamber is adaptable to give either a horizontal or vertical outlet, the type being used when there is a brick flue immediately behind the cooker, the vertical type when the cooker is connected to the main flue by means of cast iron flue pipe.

If it is preferred to use the spigot end of the flue pipe, the nozzle supplied is reversible and the smaller diameter ring should be uppermost and the two exposed cast-on nibs removed.

When the cooker is installed in a recess, it must be "free-standing" and not built in solid at the sides. Adequate space at the boiler side must be allowed.

THE BOILER

The Royal and Regent Models have side connections only.

Side connections. Unscrew the sheet metal cover plate on the side of the cooker and remove the installing material from behind it. Joint the flow and return connections to the boiler, replace the insulating material and screw on the cover plate an collars.

Top connections. Unscrew the two small sections of the hob above the boiler and remove sufficient insulating material to allow a free passage for the boiler. Tilt the boiler backwards and lift it up. Joint

the flow and return connections to the boiler, the return connection with the dip pipe is marked with a groove ring for identification.

Before replacing the boiler, run fire cement down side flanges, place the boiler tight against side flanges and fill the cavity at the back and on top completely with insulating material.

The boiler is now ready for connection to the hot water cylinder. Make sure that there are no dips in the flow pipe between the boiler and cylinder. It is advisable to fit a drain- off cock on the return pipe close to the cooker.

Fill any spaces between the boiler and fire bricks, with the fire cement provided. Make good also any joints between the fire bricks which may have opened up in transit.

THE HOT PLATE

Lift off the surface ground hot plate and check that the joints between the underside of the hob, and the top of the cooker are intact. Any joints which have opened up should be made good with fire cement provided. Replace hot plate making sure that it is seating properly on the heat proof rope. It should be approximately 1/16 in. proud of the enamelled hob.

TESTING

When lighting the fire for the first time, allow the cooker to heat up gradually.

FIREBRICK REPLACEMENT

The firebricks fitted to Rayburn Cookers are of first quality manufacture, and providing the cooker has been installed and used correctly will have reasonable life. They are however, expendable items and in time will require renewal.

The renewal firebricks is not a major operation and can be carried out by the average handyman. Replacement bricks either in sets or singly can be obtained from your Rayburn distributor.

FLUE LAYOUTS

When a Rayburn is installed in an existing recess, there must be a clearance of not less than 6in. between the top of the flue pipe and any overhanging brickwork.

If the cavity above the register plate is more than 3 ft. high the flue pipe must be carried up to the throat of the chimney. In this type of installation it may be necessary to seal the flue pipe into the throat of the chimney, and provide a soot door for the chimney sweeping. A Rayburn can be connected direct to a brick flue.

Rayburns can also be connected to an existing brick flue with a length of flue pipe. Square bends and horizontal runs must not be used. There must be a cleaning door at every bend.

NOTE:- Whatever method of installation is employed, air must not be allowed to enter the chimney except through the cooker. All joints must be air tight. Provision must always be made for sweeping the chimney.

Important

Flues consisting wholly of flue pipe are not recommended.

GUARANTEE

The RAYBURN has a 12 month guarantee. This covers all parts excluding, consumable parts which are replaced on servicing.

CLEANING

We recommend that only warm water and a mild detergent be used on the RAYBURN. For further advice, please telephone us.

UTENSILS

The RAYBURN is supplied with one wire rack and two flat trays. Further are available at extra cost.