

**Further installation notes and advice
for the super-efficient Mk2.**

ECO Range T³



Log Wood burning

Thornhill Turbo Technology

Three Oven Cooker



All regulations are in Document J, which can be down loaded for free @ https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/468872/ADJ_LOCKED.pdf The following is to help you achieve these rules & regs.

There are 3 areas to check prior to delivery:

1: Floor

2: Chimney

3: Air supply

3: Cupboards and work tops

Floors:

The floor/hearth under the cooker must be constructed on non-flammable material at least 20mm thick.

The floor should be at the same level or higher than the rest of the floor.

If the floor is to be tiled, this should be done first, not after the cooker is in place as it is lower than and impossible to get out/move without damaging tiles.

If the floor is to be wood or other flammable material then the area under the cooker should be tiled or a slab of stone laid, so that it ends up slightly higher than the surrounding floor and should extend 9" (225mm) in front of the cooker.

A good minimum size for the hearth area is 1,300mm wide by 900 deep.

Flueing:

Any chimney should be lined with a suitable 6"/150mm liner, terminating at a register plate. The liner should then have a 'Register plate adaptor' at the bottom ready to take the virtuous enamel flue pipe.

We recommend Flue Supplies, see www.fluesupplies.com 6" Register plate adaptor.

The top of the chimney should have a Bird guard/rain cap terminal.

If you are in a windy area or surrounded by tree or high building, down draft might be a problem, we recommend Vedette cowls not the spinning ones which can cause excessive draw.



Stone fire place with brick chimney lined with 6" (150mm) flex. liner finished with a register plate adaptor. The gloss flue pipe slips over the outside of this. When finished it please email the height for the plate to the floor, so we can work out what flue pipe to bring.

If it is a twin wall stainless chimney then there should be an appliance adaptor at the bottom which will have a similar spigot hanging down.

Golden Design Rules:

- a) No more than 2 meters of single skin flue pipe should be used. (it causes the flue gases to over cool and lose their lift)
- b) No more the 4 off 45-degree elbows should be used, in the flue and the chimney.
- c) Distance to flammable materials (plaster board is cardboard backed and flammable), Chimney 60mm, flue pipe 3 X diameter so 450mm on the wood cooker.
- d) A soot door/sweeping door must be provided, in the first section of flue pipe or at the first bend.
- e) An adjustable section must be used to be able to remove the flue pipe for maintenance. Twin wall must **NOT** be built up from the appliance, using the appliance as support.

Air Supply:

All hydrocarbon burning appliances require an oxygen/air supply.

Under Reg J in the UK, an air vent is required for older properties built before about 2005 of a minimum of 30mm diameter. Properties that have been 'improved' with extra insulation and draught proofing of windows and doors do require a vent of 60mm diameter minimum.

If the chimney/cooker is to be fitted on an external wall the air supply can be taken straight from the outside. A 3" (80mm) diameter hole needs to be drilled in the correct place, 138mm above the hearth and the cooker 'manifold/extension air pipe' kit purchased and fitted. A proprietary grille is supplied

with the kit, if not used an air brick or non-closing vent should be fitted to ensure the air supply is not blocked in any way.

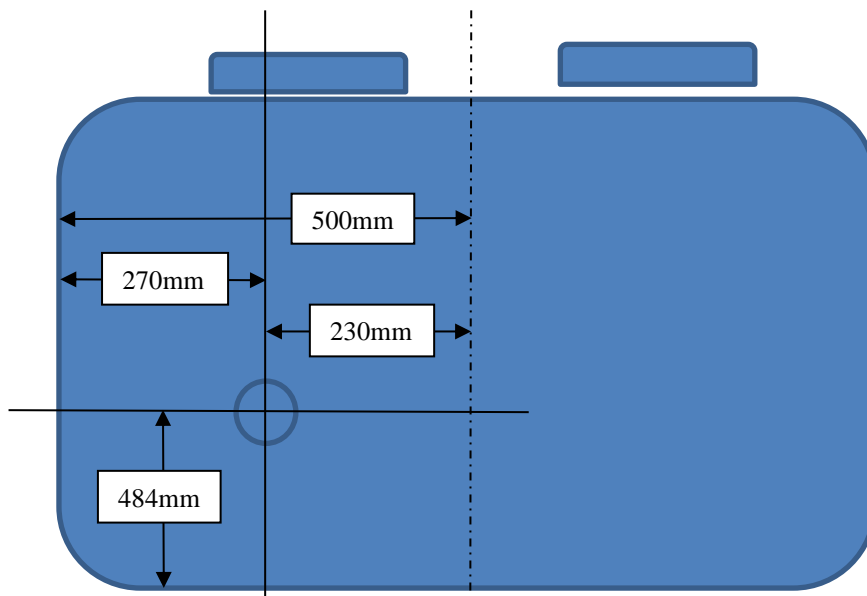
The manifold method of supplying air is always to be preferred as there will be no draught in the room especially when the cooker is not in use.

If the cooker is not on an outside wall or the direct air supply method cannot be used, an air vent must be supplied in the room in which the cooker is fitted.

Only permanently open vents can be used and consideration should be given to draught when the cooker is not in use. Site these vents carefully. The vent covers should comply with Building Regulations Part J and should be sited where they cannot be blocked.

Extractor Fans: These suck air out of the room and cause a negative pressure in the room so they must have their own air vent to counter this. Even when the air is taken directly from the outside using the manifold system a vent will be required for any extractor fan fitted in the same room or adjacent rooms. Great care must be taken with restaurant/café kitchens which have professional levels of extraction.

Air vent requirement:	
Pre 2005 house	550mmsq vent required. (30mm diameter)
Post 2005 houses	An air vent is required (3,300mm sq.) or direct connection to outside.
Extractor fan	Air vent required to match fan.
Manifold Kit	100mm diameter



This diagram shows the position of the air inlet on the wood 3 oven cooker.

This diagram is **looking from the front**; the air inlet is behind the fire box on the left hand side of the cooker.

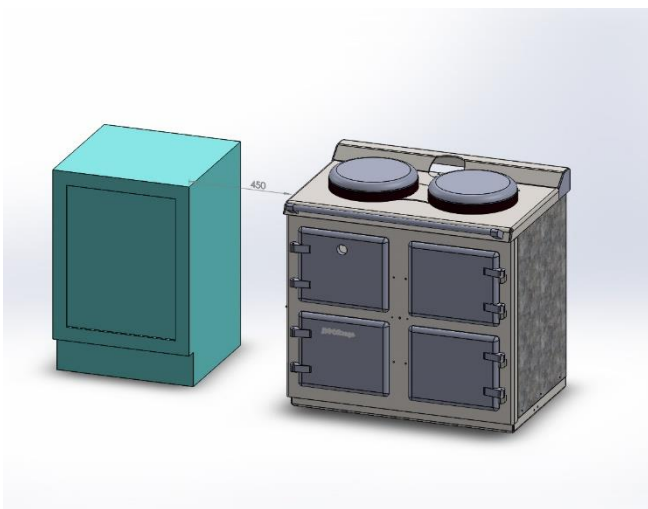
The hole should be core drilled 115mm, and sleeved with 100mm tube. We can supply a short length of tube and vent cover.

Cupboards and work tops.

The 3 oven wood fire range is a wood burning stove with oven designed to be very hot, with the oven 200C and the hot plate around 250C. So there is a fire risk and the cooker must be installed the same as a wood stove.

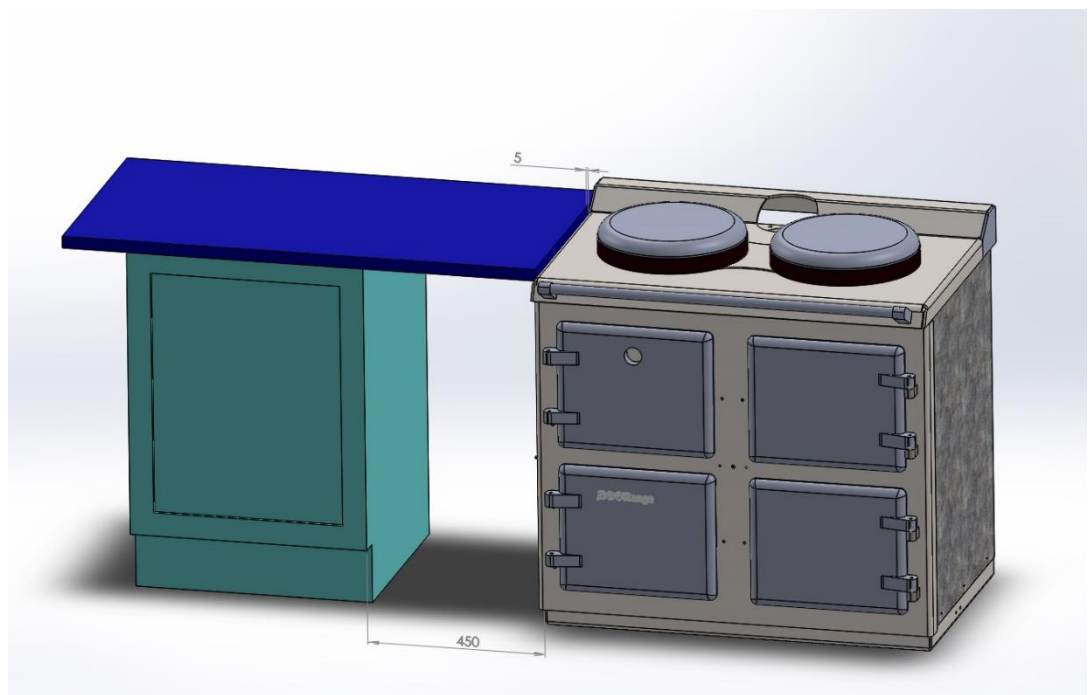
This mean there must be no flammable material near the cooker sides or back unless they are insulated with fireproof insulation.

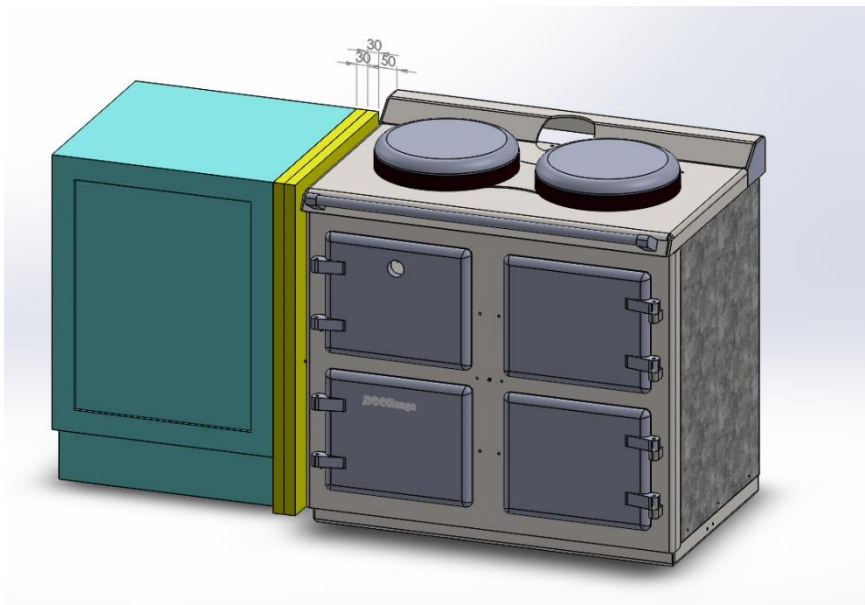
The testing for CE certification measure the distance of the back and LHS to flammable materials and so the nearest a cupboard should be to the left is 4" (10cm) and from the back wall 2" (5cm). The right hand side is not a problem as the ovens are there already giving you 40cm, but a 40mm gap for ventilation helps keep any cupboard cool.



Minimum 100mm on left hand/firebox side of cooker to nearest cupboard or flammable material.

If the worktop is Granite or similar it can taken right up to the cooker, but leaving at least a 5mm gap for expansion.

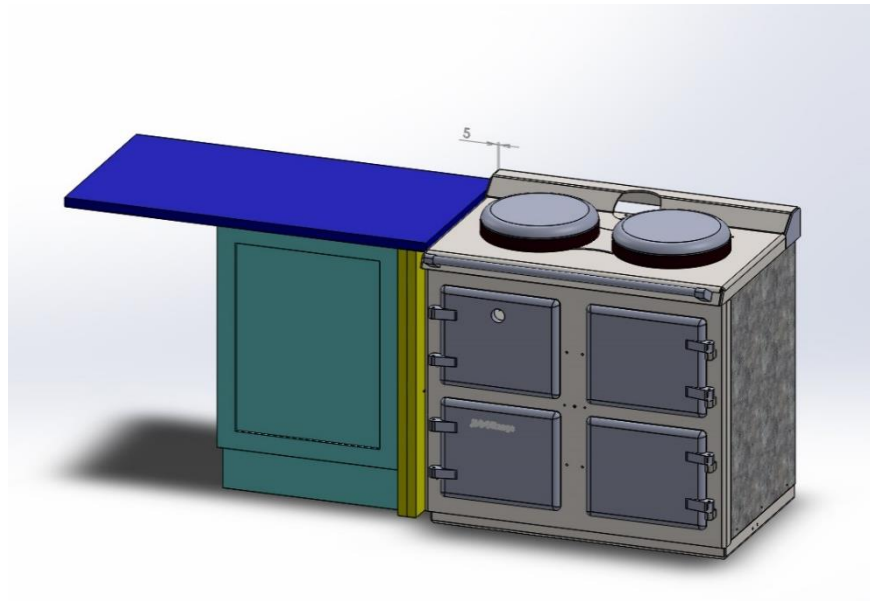




If you want to bring the cupboards closer, then you must add insulation about 40mm thick. We recommend a material called calcium silicate boards which is very effective and we can supply 100cm by 90cm boards. These are 30mm thick.

You must still leave a 40mm gap to the cooker for air supply and cooling. Alternatively, a small brick stud wall can be built.

The work top can be taken up to the cooker still, but leave a minimum 5mm gap for expansion. If the work top is Formica, wood or other flammable material, you should leave the 350mm gap.



If in doubt email and please send picture when ready showing the register plate adaptor spigot with some dimension so we can work out what flue pipe to bring with us.

'Thornhill Turbo Technology' is the patented clean burning 'engine', used under license in these cookers.

ECO Range Cookers

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