

990CH user hints & tricks



The Esse 990CH is not like any other cooker or boiler on the market

Its equivalent to 3 products in one;

- It's a Boiler
- It's a Stove
- It's a Cooker

Understanding the controls is the trick on understanding on how to use your stove with no smoke...

Overview

There are two separate conversations we need to have;

1. Where to put the damper controls
2. Where to put the thermostat air control

Both of these conversations we will cover in this blog

Your Esse Controls

Oven ByPass control

This is the **lever on the right hand side of the flue box**

It has 2 positions

- Pushed to the back

This allows the smoke & heat to exit straight out through the flue

- Pushed to the front

This forces the smoke and heat across the right hand side of your stove, and around the ovens before exiting through the flue

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Boiler Bypass control

This is the **large silver knob on the front of your stove** between the two top doors

It has 2 positions

- In a Horizontal position

This allows the smoke to bypass the boiler and exit to the flue very easily

- In a Vertical Position

This forces the smoke and heat down the back of your firebox, and through the Boiler Heat Exchange before exiting through the flue

*****Please note***** this control gets very hot - Use the Esse Boiler tool to adjust the position of the Boiler Bypass

By using these controls in different positions, you can direct the heat to where it is needed



How to put your Esse into "Stove Mode"

This is the mode you have when you are wanting your Esse 990CH to

- Light your cooker from cold
- Re-fueling the firebox
- Overnight control
- Or to just let your stove tick over...

It spreads the heat evenly between the oven & the boiler and gives the smoke the easiest and fastest path to exit your cooker

This is the position you need to have when you not only light your stove, but leave your stove to go out.

Your Esse controls need to be :

- Oven Bypass pushed to the back
- Boiler Bypass horizontal

What you are doing is allowing the smoke to drift across the left hand side of the hot plate, and straight out the flue – the heat is then evenly distributed through-out the stove

How to put your Esse into "Boiler Mode"

This is the mode when you want your Esse cooker to focus the heat to the boiler to heat your hydronic system

Your Esse Controls need to be

- Oven Bypass pushed to the back
- Boiler Bypass Vertical

What you are doing is making the smoke and heat to now go down the back of your firebox, right to under the grate, then up through the boiler heat exchange to heat your hot water, then exit through the flue

How to put your Esse into "Oven Mode"

As the description is, it's the mode you have when you wish to really heat up your ovens

Your Esse Controls need to be

- Oven Bypass forward
- Boiler Bypass Horizontal

What you are doing is making the smoke & heat now head over the top of your oven, down the right hand side of the oven, between the two ovens, then exit up the flue : thus heating your oven evenly

What to NEVER to do!!!



NEVER have both the

- **Oven Bypass in the forward position**
- **And the Boiler Bypass in the vertical position**

Doing this will soot up your stove and make her smoke

Your Esse Air Control

The Esse Thermostatic Air Control is the large silver dial on the bottom left of your cooker

How this works

The Air Control is connected to a thermostat inside your Esse's Boiler

As the boiler water temperature reaches the set temperature, your Esse 990CH will automatically reduce the air intake to slow the fire down.

As your hydronic system you have set up takes this heat to your radiators, it will cool down the water in the boiler and the Esse will adjust the air control to allow more air into your fire to re-heat the water

As you turn the knob up (clockwise) this has set your stove to full maximum heat output

The stove will automatically open up the air to maintain water temperature in your boiler around the 80°C to 90°C



When you turn the knob all the way to the right, clockwise, this will decrease the burn time and increase the amount of hot water your stove will produce

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As you turn the knob down (anticlockwise) this is telling your Esse to make less hot water, and your stove will adjust the air to your fire to slow down

When you turn the knob all the way to the left, anticlockwise, this will increase the burn time and reduce the amount of hot water your stove will produce

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Please note : the air control regulates the air to your fire, it works based that you have filled the firebox and maintained the wood to your esse cooker based on how “hard” you are using your Esse 990CH

Lighting your stove

Lighting your Esse 990CH is all about making the smoke exit your cooker as easily as possible

To do this – set your dampers in this configuration

- Boiler Bypass control to be horizontal
- Oven Bypass lever to be pushed to the back

Now let's light your cooker

- [Pre-heat your flue](#)
- Have your firebox FULL of kindling, nothing thicker than your fingers
- And light using firelighters
- Shut the firebox door
- Leave the ashtray door slightly ajar
- And have the air control thermostat (the silver knob at the bottom left of your stove) fully turned clockwise

You need to ensure the wood is completely alight before shutting the ash box door

The next load of wood should be as thick as your wrist, nothing thicker – and fully load the fire box.

Note : the damper controls at this stage are in Stove Mode

Opening the firebox door

No matter what mode you have your Esse 990CH in (Cooker or Boiler mode) the way to open your firebox door is the same

Put your stove into Stove Mode

- Oven Bypass to the back
- Boiler Bypass horizontal

And crack open the firebox door

Allow 30+ Seconds to allow the smoke to change direction and to de-pressurize your firebox; then open fully to load