

# CombiSave

Do you have a combi-boiler?  
Are you on a water meter?



# Introducing CombiSave

Even brand new A-rated boilers are not as efficient as you may think. Every time you turn on your hot water tap, you are wasting water, gas, time and money.

Independent tests show that as soon as you switch on your boiler the first ten litres used in the process of heating water are wasted. As such, more gas than is needed is burnt, excess carbon is produced and time is wasted.

This **British innovation** is a thermostatically operated valve that can be fitted to the majority of new and existing wall hung combi-boilers.

By controlling the flow of water during the initial firing process, the CombiSave accelerates the heating of water and reduces the amount of fuel needed in the process. The CombiSave can even be fitted to older models, so it's a great way of making your home more **energy efficient** without buying a brand new combi-boiler.

The **award winning** CombiSave will save water, gas, time and money, as well as drastically reducing your carbon footprint, so it's good for your home, your pocket and the environment.

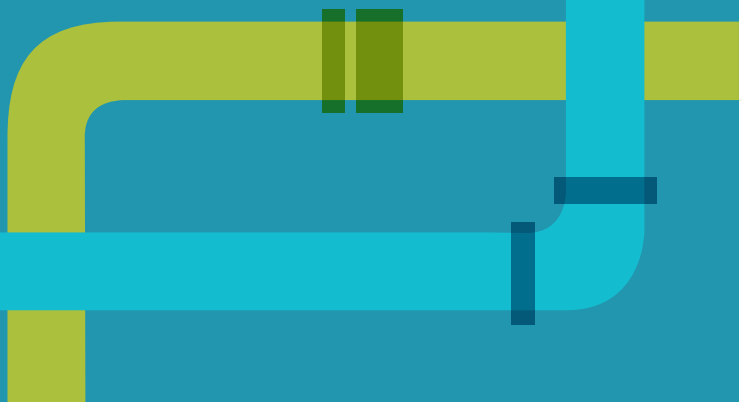
**Why waste fuel, money and time waiting for your hot water?**

**WINNER**

Consumer Benefit  
UK Energy innovation  
Awards 2010

**AS HEARD**

on BBC Radio 2's  
Drivetime Innovation



# Savings with CombiSave

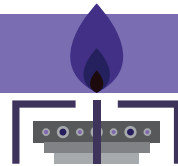
## Save Water

Amazingly, the CombiSave can save up to 55,000 litres of water every year, giving you a potential saving of up to **£140 per year!**



## Save Gas

As the time taken to heat up your water is reduced, you will use much less gas, saving up to £100 per year!



## Save Money

Your bills will reduce drastically by using fewer resources and CombiSave is a 'fit and forget' device, so no worries about unwanted repair or replacement bills.



## Save Time

The CombiSave will provide your hot water much quicker than the boiler alone.



## Save Carbon Dioxide

By using less gas and water, the amount of carbon dioxide your home produces will be greatly reduced, improving your carbon footprint and making your home more energy efficient.



# Example Savings

Independent tests show that as soon as you turn on your boiler, the first ten litres of water used are wasted. There are significant savings to be made by installing a Combi**Save** to your combi-boiler. This example shows the time wasted in waiting for water to heat and the reduction in gas used before and after the addition of the Combi**Save**.

## Before Combi**Save**



8.5 litres of  
water used



400 watts  
of gas used

Time taken : 49 seconds

## After Combi**Save**



2 litres of  
water used



166 watts  
of gas used

Time taken : 20 seconds

## Over the year, you could save\*:

- Around **55,000 litres** of water
- **1,650kwh** of gas per year
- **Up to £240**, as you save on your water and gas bills
- **Up to 21 hours** over the course of the year saved by not waiting for hot water
- **Around 260kg - 500kg** of carbon dioxide per year, helping the environment

\*Figures based on Independent tests by EA Technologies.

# The Science Bit

The CombiSave is a thermostatically controlled valve made from de-zincification resistant brass. It is fitted with two rotatable elbows, which allows ease of fitting to a range of 15mm pipe configurations. All nuts and olives required for fitting are supplied along with a fitting guide and instructions.

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When the hot tap is turned on, the Combi**Save** reduces the flow of water until it has reached a set temperature. At this point, the valve opens fully and allows the hot water to flow throughout the system. The Combi**Save** will save an average of 8 litres of water every time the tap is turned on from cold.

*"A CombiSave fitted in 50,000 homes could save a whole reservoir of water every year, together with associated treatment costs, as well as 12,500 tonnes of CO<sub>2</sub> per year. It represents a real opportunity to protect our environment with little cost and effort."*

# Technical Information



|                                   |              |
|-----------------------------------|--------------|
| Pressure range                    | 0.2 - 10 bar |
| Maximum inlet water temp          | 85° C        |
| Temperature calibration range     | 40-50° C     |
| Maximum outlet flow (at 6bar)     | 25l/min      |
| By-pass flow adjustment (at 6bar) | 0.5-4l/min   |
| Pipe size (inlet and outlet)      | 15mm         |
| Boiler type                       | Combination  |
| Mass (complete)                   | 499g         |
| Body material                     | Brass        |
| Nuts and elbow material           | Brass        |
| Olives material                   | Copper       |

## Frequently Asked Questions

### Can I install CombiSave in low water pressure areas?

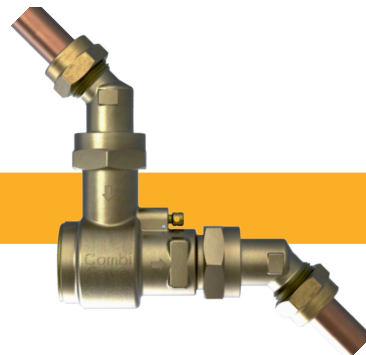
Daily water demand can fluctuate causing variable water pressures at peak periods. Refer to installation instructions for minimum pressure requirements and setup procedure.

A simple way of simulating low water pressure is to flush the toilet and whilst the CombiSave is cold, turn on a hot tap and ensure the boiler ignites.

*Note: this can be more of an issue in flats and in built up areas*

### Are there any Combination boilers where CombiSave is not currently recommended for use?

Yes. Boilers that already incorporate a water saving device such as Potterton Puma, combination boilers with built in storage e.g. Glow-Worm extra max, and boilers with inbuilt thermal store e.g. Worcester Highflow.



### **Can we install CombiSave on boilers with a pre-heat function?**

Although CombiSave is compatible and works well with pre-heat systems, to maximise savings it is recommended that where possible, the pre-heat function is turned off.

However, there are boilers like the Ideal ISAR where this is not possible and therefore a CombiSave would not be suitable. When a Combination boiler is used with the pre-heat function turned on, it is not as energy efficient.

Most users do not know the cost of using pre-heat but the annual cost is estimated to be up to £100 per year. CombiSave has been developed to remove the need for pre-heat by delivering hot water faster.

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### **Why can't the customer just turn down the hot water tap?**

It is widely acknowledged that Water Utilities have tried to influence the behaviours of customers to reduce unnecessary water use. Even the most regimented and disciplined household will probably not achieve the savings that CombiSave can bring.

CombiSave has been developed so that the end user does not have to change their behaviour to allow significant household savings.

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### **When should I promote CombiSave?**

For maximum benefit CombiSave should be promoted where there is a Combination Boiler & Water Meter installed. However, customers with a Combination Boiler and no Water Meter can also benefit from savings on their gas bill.

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### **Does the CombiSave affect the Boiler Warranty?**

No, this is not affected.



## CombiSave

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