

**HEATESE®**

**Unique Heating System  
Always on - Always Warm**

# Understanding Heatese

Heatese is a boiler which offers significant savings, compared to conventional boilers and Heat Pumps.

Heatese is available to run with:

- Oil
- Diesel
- Gas
- LPG



# How does Heatese achieve its energy Savings?

By consuming less fuel than a condensing boiler Heatese can save up to 80% on oil bills.

This is achieved through 3 Unique innovations to Heatese:

- Indirect Heat
- Energy Recovery
- Energy Storage



# Indirect Heating

Conventional boilers heats the surface directly.

Heatese heats the surface indirectly. Instead of the flame heating a metal surface, our flame heats a container of air. Air then rises and heats a copper tank. The heat is then transferred to the water within the tank. The method is vastly more efficient as it requires far less fuel to heat air.

Heating indirectly also allows us to use copper which is a better conductor.



# Energy Recovery

The temperatures inside the Heatese Gas Chamber reach 324°C. By the time these gases leave the exhaust system they have been reduced to 40°C. This is done by the energy recovery system which transfers the otherwise lost heat back into the system.

By recycling the heat additional fuel is not being used to create more heat.



# Energy Storage

Conventional Boilers uses up to 40% more oil in its first hour of operation and will lose its heat quickly once turned off, requiring a pre-heat period again.

In contrast if turned off for 24hrs the Heatese system will cool by 5°C. Heatese stores its energy for when it's required. It can be run for a few hours a day or constantly.



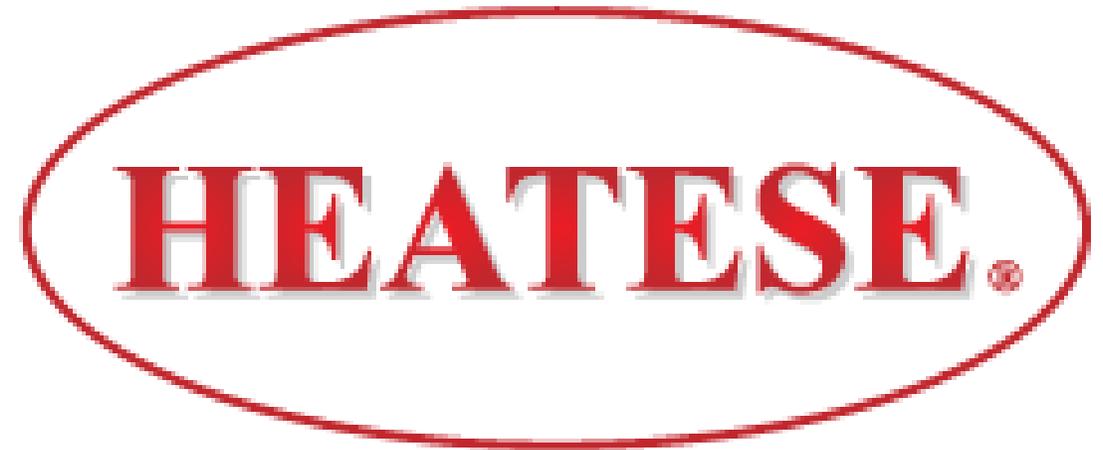


# Heatese Vs Conventional Boilers

# Operating Cycle

A conventional boiler, once pre-heated, operates on a 6 minute cycle, on for 3 minutes off for 3 minutes

Heatese comes on for 12 minutes and then knocks off for 33 minutes. This provides a 45 minute cycle. Therefore Heatese is on for 12 minutes in every 45 minute cycle. Conventional systems are on for 22.5 minutes in every 45 minute cycle.



# The Nozzle

## Nozzle and PSI

Traditionally burners in conventional systems uses a 0.75mm nozzle at a fuel pressure of 130psi

Heatese use a 0.5mm nozzle at a fuel pressure of 100psi. As a result Heatese cannot burn as much fuel as a conventional system



# Running Cost Comparison

	Heatese	Traditional Condensing Boiler
Consumption of oil	0.5 Litres of oil per hour	2.5 litres of oil per hours
Running cost per hour	£0.29 per Hours	£1.45 per Hour
Running Cost Per Day	£1.45	£7.25
Running Cost Per Week	£10.15	£50.75



# Installation

# Installation

When you purchase the Heatese Heating System it comes fully setup and commissioned prior to delivery.

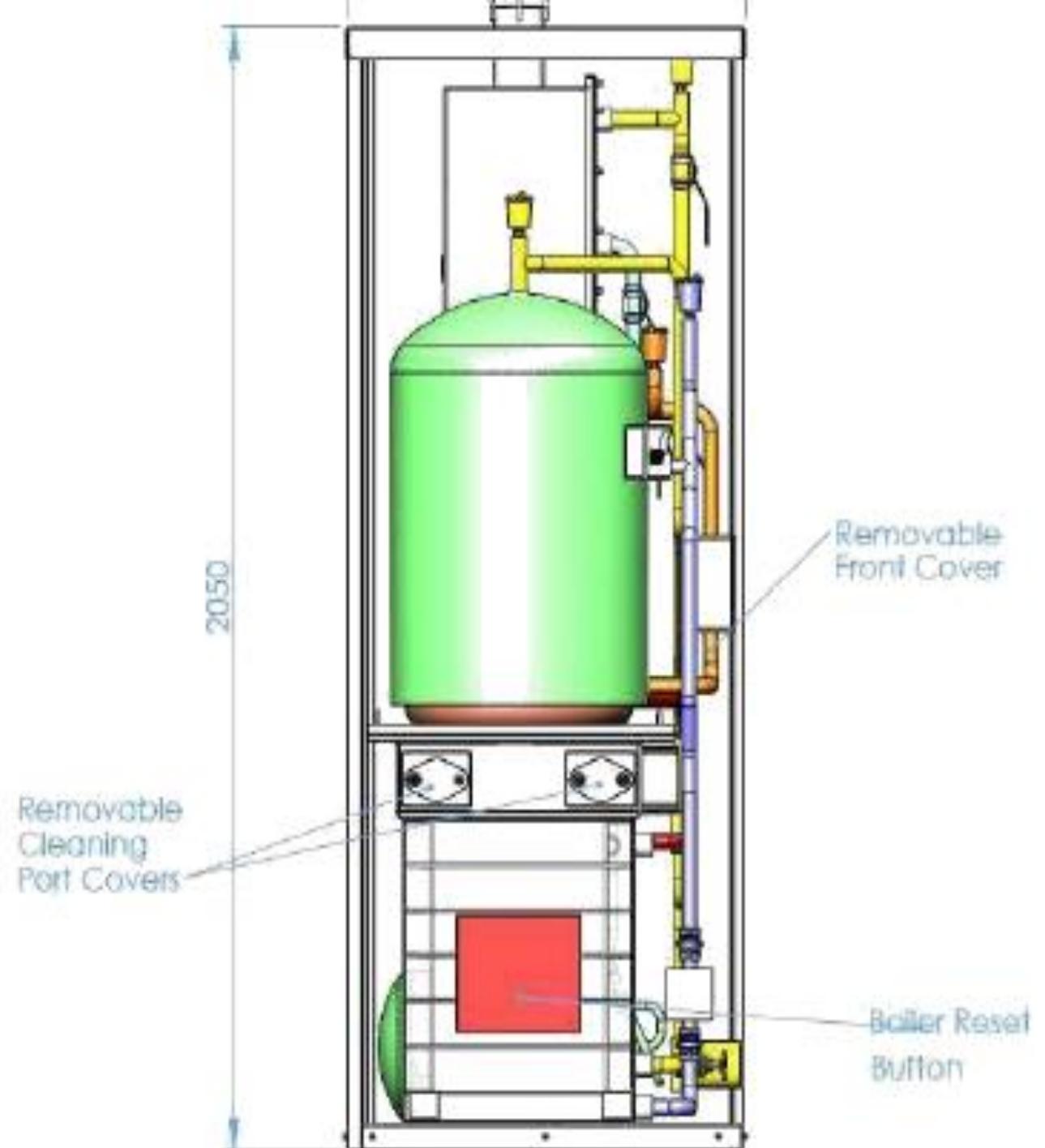
All systems must be installed by a Heatese certified installer.

All Heatese Heating System has the following dimensions

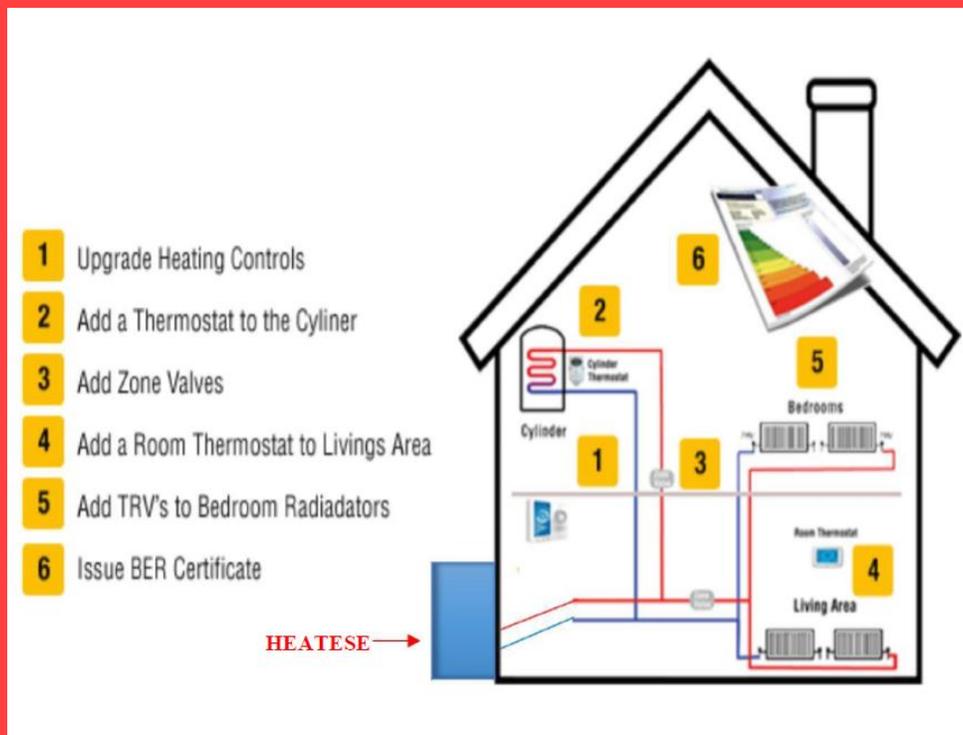
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Depth= 1107 cm

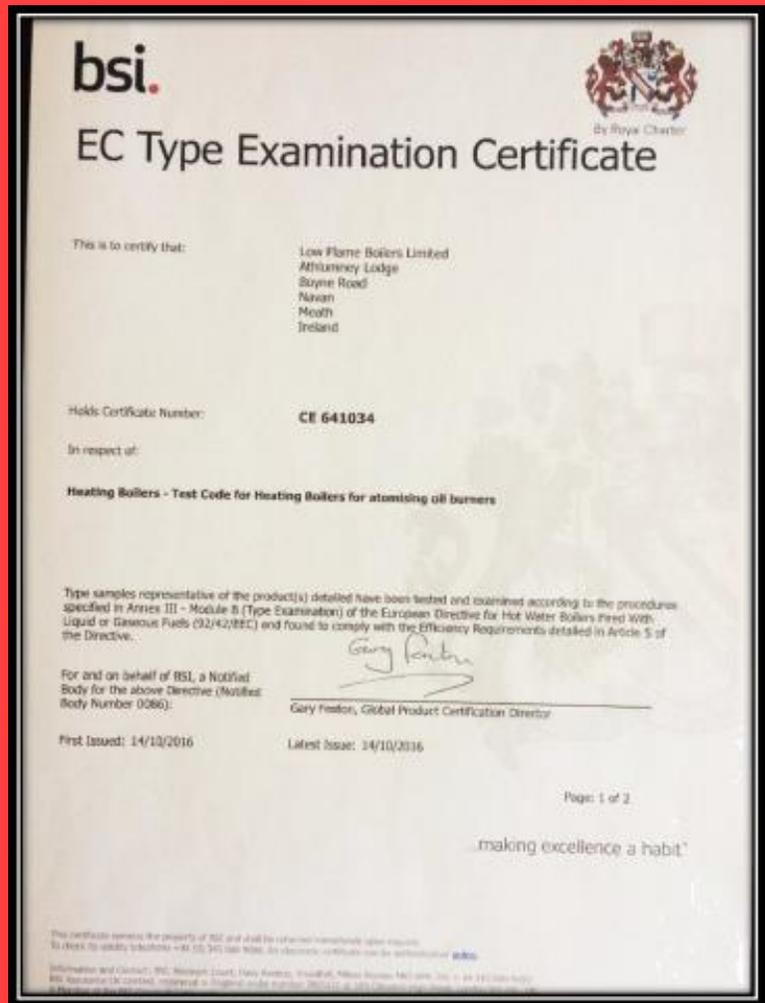
Width= 807cm



# What's Included with Heatese



- 1x Heatese Heating Systems
- 1x Re-insulated cylinder
- 1x Cylinder Thermostat
- 1x Immersion Time Clock
- 1 x Climate 7 day digital time clock
- 2 x electric Motorised Valve
- 1 x Carbon Monoxide Alarm
- Chemical central heating protector
- 1x Magna Cleanse Kit Central Heating Flushing System
- 300mm of Insulation



# Certifications, Test Results and Warranty

- 5 year Warranty
- 'A' Rated Boiler
- BSI Certified- CE 92/42/EEC
- Efficiency at Max 93.8%
- Part Load 30°C Return 99.6%
- “Formed in 1901 and existing by Royal Charter, BSI was the worlds first national standards body and is internationally recognised as operating to the highest levels of quality and service, providing credible and impartial certificates”

# Heatese Models Available

Model – Diesel	Description
Heatese140 Blue – Diesel	Heating System appropriate for up to 15 Radiators/ 40 Convectors
Heatese160 Blue –Diesel	Heating System appropriate for 16 to 25 radiators/ 70 Convectors.
Heatese160 + Buffer Pack- Diesel	Heatese 80kW heat exchanger plate, 500L buffer tank and required pumps. For projects in excess of 25 radiators/ underfloor heating.

Model- Gas	Description
Heat140BlueGas –	Heating System appropriate for up to 15 radiators/ 40 Convectors
Heatese160BlueGas –	Heating system appropriate for 16 to 25 radiators/ 70 Convectors
Heatese160BlueGas + Buffer Pack	Heatese 80kW Heat Exchanger Plate 500L Buffer Tank and required pumps. For projects in excess of 25 radiators/underfloor heating

# Our Convector Radiators



**HEATESE®**

# Convector Radiator Explained

Heatese will operate with the above energy savings using conventional radiators.

However with the installation of our convector radiators it is even more efficient.

Conventional radiators hold on average 7L of water. A heating system must heat this water, which in turns heats the surface of the radiator, which then emits heat into the room. The heat travels upwards to the ceiling. This heat then travels upwards towards the ceiling.

Our radiators do not store water. Instead a mere 200ml (1/35<sup>th</sup> of the average radiator of hot water passes through them continuously in finned copper piping. An integrated thermostat lets an individual radiator know when heat is required for its zone.

A typical house has roughly 9 radiators. The electricity required to operate all radiators for 1 week is roughly 38 Watts. This is less than a 40 Watt bulb uses.



# Case Study

Property: Sigitas and Saule

- Savings Per Hour: £1.62
- Savings Per Week (running 5 hrs per day): £56.76
- 1700 square feet property 13 radiators and 300L hot water cylinder
- Previously used 3.5 Litres of oil per hour; a cost of £1.83 per hour
- Heatese is using 0.4L of oil per hour; a cost of £0.24 per hour £0.21

# Here is what the customers already using Heatese have to say:

“I’ve been a heating engineer for 47 years. I’ve seen at first hand the new heatese system in operation. It will heat a 3-4 bedroom house and its water for as little as half a litre of oil per hour.”

Dominic Gallagher

“I have experienced the new heating system produced by Heatese. It is heating a 6000 sq ft house using less than 1.5L of oil per hour” Pat Mangan

“The whole house is getting heated, for less. It heats up very fast. I would recommend it, no problem whatsoever” Tony McGuinness