

solutions



dynamic boiler optimiser

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NetZeroWeek™

17th - 23rd July 2021

reducing carbon emissions locally and globally

Dynamic Boiler Optimiser

Reduce your boiler's fuel consumption without changing your building's heating performance

Keep your boiler optimised and your consumption under control

We can help your business to make significant energy and carbon savings whilst keeping your heating needs unchanged.

Our Dynamic Boiler Optimiser provides you with real-time monitoring and remote control, keeping you up to date and alerted to any problems. Report functions help you understand performance, consumption and emissions data at any time; helping you stay compliant with regulations.

Achieve up to 22% fuel reduction and have full visibility of your boiler's performance, putting you in control

www.emissis.com



Benefits

- Average annual gas consumption saving of 16%
- Energy-saving performance certified by BRE (CFP 348)
- Reduces CO2 and accurately reports emissions
- Real-time monitoring and performance reporting
- Fast return on investment
- Funded option available
- Smart energy device with artificial intelligence
- Maintains pre-set building temperatures
- UK designed and manufactured
- Manufacturers warranty



Performance independently certified by the Building Research Establishment



How does it work?

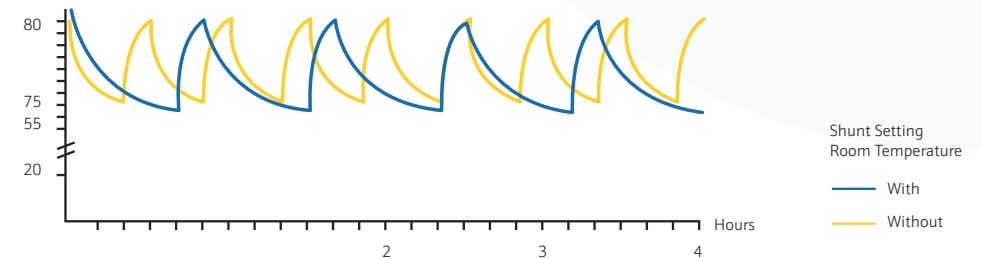
A boiler thermostat generally maintains temperatures in the boiler between 70C – 80C. The Dynamic Boiler Optimiser (DBO) ensures a boiler only responds to the needs of the building – not the boiler, which can often cool a couple of extra degrees and is sufficient to double the length of the cooling curve.

The DBO works by reducing the amount of fuel consumed by optimising boiler cycle times without changing the buildings heating performance. Installed in industrial sized gas or oil-fired boilers with a demand greater than 50kW. It is mains operated, un-intrusive and via our web platform allows our customers to see in 'real-time' their cost and carbon savings; there is no guesswork.

The principle is shown in the graph where the boiler cycle, across a 4-hour period, is reduced from 8 to 5 cycles and the overall burn time is reduced from 80 to 62 minutes.

The systems' savings report can be downloaded and identifies exactly how this works in practice. The DBO takes itself in and out of circuit every 50 boiler cycles and measures the cooling and firing times for each cycle. The DBO makes savings possible without the need for boiler temperature or footfall adjustments.

The DBO is an innovative UK designed and manufactured smart energy-saving technology that delivers an average 16% reduction in gas consumption. It is the only energy-saving product whose performance has been independently certified by the Building Research Establishment (BRE).



	WITHOUT DBO	WITH DBO
Number of Cycles:	8	5
Individual Burning Time:	10min	12.4 min
Total Burning Time:	80min (33% of 4 hours)	62min (26% of 4 hours)
SAVING:		22%

Current customers

- Grosvenor Estates
- East Sussex County Council
- Telford and Wrekin Borough Council
- Land of Leather
- Merseyside Fire and Rescue
- Colliers FM
- David Lloyds Leisure
- House of Fraser
- Suffolk County Council
- Ministry of Defence
- London Fire Brigade
- British Gas Business
- Radisson Hotels
- London Borough of Brent
- London Borough of Croydon
- Southampton City Council
- Anglia Regional Co-Op
- National Air Traffic
- Mitchell and Butler Public Houses

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