

# EndoTherm<sup>®</sup>

## Set Yourself Apart, Lead the Pack:

Provide Energy  
Efficiency Excellence



EndoTherm presents an opportunity for heating engineers and installers to add further value to their services and stand out from the crowded marketplace:

- ✓ Increase customer satisfaction
- ✓ Enhance profit margin & professional reputation
- ✓ Gain an advantage & differentiate from competitors
- ✓ Provide a unique, sustainable & verified solution



EndoTherm is a unique, multi-award-winning, energy saving additive for any wet heating system.

Installed at 1% of system volume and independently proven to save up to 15% on space heating energy consumption and deliver significant reduction of greenhouse gas emissions.



Reduce energy consumption and heating costs by up to 15%.



Typical return on investment circa one year.



Substantial reduction of carbon emissions - hit 'net zero' targets



Single day CO<sub>2</sub>e payback - Low carbon footprint product.



100% Organic substance, ecologically-sound and sustainable.



Independent laboratory, third party tested and verified.



Compatible with leading boiler and inhibitor brands when dosed.



Non-corrosive, non-hazardous with no discharge requirements.



Easy installation with zero disturbance or system downtime.



Multi-award winning technology with industry recognition.



[www.endotherm.co.uk](http://www.endotherm.co.uk)



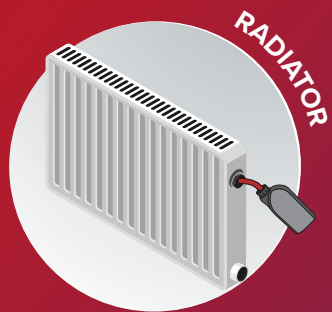
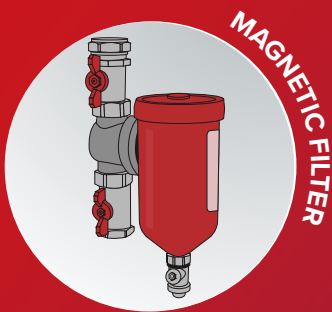
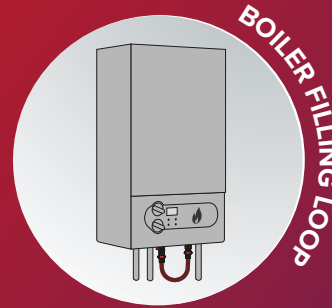
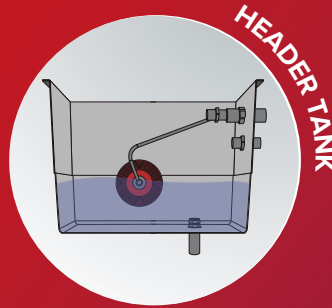
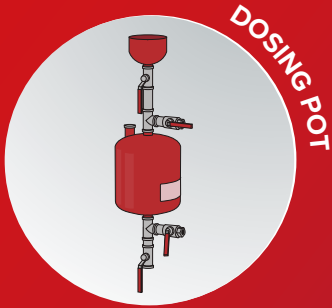
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# Installation Methods

Installing EndoTherm is quick and easy, very similar to installing an inhibitor. Dosed at 1% of system volume and compatible with all leading boiler and inhibitor brands without invalidating warranties, EndoTherm can be added to any wet heating system via the following injection points:



## Approved By

### Boiler/Heat Pump Manufacturers



### System Additives



### EndoTherm works with:

- ✓ Combi boilers
- ✓ System boilers
- ✓ Conventional boilers
- ✓ Air sourced heat pumps
- ✓ Water sourced heat pumps
- ✓ Ground sourced heat pumps
- ✓ Biomass
- ✓ Radiators, AHUs, FCUs
- ✓ Underfloor heating
- ✓ District heating systems
- ✓ Magnetic filters
- ✓ Filtration systems
- ✓ Inhibitors
- ✓ Glycols
- ✓ Cooling systems



REDUCE SPACE HEATING  
ENERGY CONSUMPTION



REDUCE GREENHOUSE  
GAS EMISSIONS



FAST RETURN ON  
INVESTMENT



EASY TO INSTALL IN  
NEW & OLD SYSTEMS

## Independently Tested



Direct comparison tests with and without EndoTherm indicates that **the gas consumption of the boiler in a heating system can be reduced by up to 15% with EndoTherm.**

The empirical evidence indicates that the addition of EndoTherm can significantly reduce space heating gas consumption and therefore CO<sub>2</sub>e emissions.



In partnership with University of Chester and Liverpool John Moores University, researchers are experimentally quantifying, to much higher accuracy than ever before, the fluid behaviour changes caused by EndoTherm, and are exploring through simulation impacts of these changes on building and heating system behaviour.



The recorded gas consumption from tests was compared and results showed that **systems dosed with EndoTherm consumed 10.4% less gas than systems containing only water.**



**EndoTherm achieved a 19.2% improvement in heating during experiments.** Testing also showed EndoTherm liberated this thermal energy much quicker through an improvement in heat transfer.

## Award Winning & Industry Recognised



LES EURÉKA 2022  
FOR A GREEN AND PROSPEROUS  
QUEBEC



NATIONAL ENERGY EFFICIENCY  
AWARDS 2020/21  
BOILER & HEATING PROJECT



H&V NEWS AWARDS 2019  
SMALL COMPANY ACHIEVEMENT  
OF THE YEAR



SHELL SPRINGBOARD 2018  
LOW CARBON INNOVATION  
REGIONAL WINNER



ENERGY EFFICIENCY & HEALTHY  
HOMES REGIONAL AWARDS 2017  
SMALL SCALE PROJECT OF THE YEAR



CIBSE BUILDING PERFORMANCE  
AWARDS 2016 - ENERGY SAVING  
PRODUCT OF THE YEAR



H&V NEWS AWARDS 2015  
DOMESTIC H&V  
PRODUCT OF THE YEAR



ECOBUILD 2015  
M&S BIG INNOVATION PITCH  
WINNER



MEMBER OF THE HEATING  
& HOTWATER INDUSTRY  
COUNCIL



SCIENCE  
BASED  
TARGETS



# Energy Saving Case Studies

Installed and saving energy in over 150,000 buildings worldwide  
 Scalable to work in all wet heating systems - commercial, industrial and domestic

**The Guinness Partnership - Roll Out**  
 UK Wide



**15%**  
 ENERGY SAVING

**Whitbread PLC Portfolio Roll Out**  
 UK Wide




**13.89%**  
 ENERGY SAVING

**Young & Co's Brewery Portfolio Roll Out**  
 UK Wide



**21.1%**  
 ENERGY SAVING

**Rhondda Cynon Taf Council Portfolio Roll Out**  
 Wales



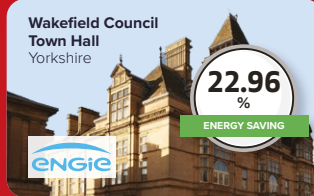
**13.99%**  
 ENERGY SAVING

**Middlesbrough Council Civic Centre**  
 Teesside



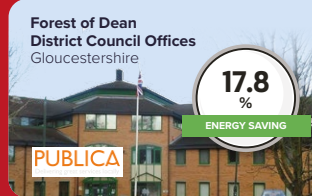
**20.56%**  
 ENERGY SAVING

**Wakefield Council Town Hall**  
 Yorkshire



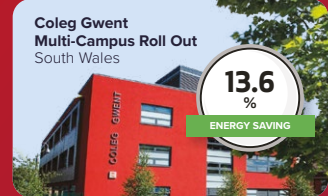
**22.96%**  
 ENERGY SAVING

**Forest of Dean District Council Offices**  
 Gloucestershire



**17.8%**  
 ENERGY SAVING

**Coleg Gwent Multi-Campus Roll Out**  
 South Wales



**13.6%**  
 ENERGY SAVING

**Ilkeston Community Hospital**  
 Derbyshire



**14.9%**  
 ENERGY SAVING

**Monkseaton Medical Centre**  
 Tyne and Wear



**14.13%**  
 ENERGY SAVING

**Singleton Hospital Day Surgery Unit**  
 Southwest Wales



**18.58%**  
 ENERGY SAVING

**University of Northampton Newton Building**  
 Northamptonshire



**17.31%**  
 ENERGY SAVING

**United Utilities HQ Lingley Mere**  
 Cheshire



**15.53%**  
 ENERGY SAVING

**Wellcome Trust Gibbs Building**  
 London



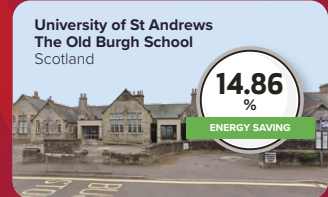
**9.46%**  
 ENERGY SAVING

**Needspace? Earsfield Business Centre**  
 London



**13.39%**  
 ENERGY SAVING

**University of St Andrews The Old Burgh School**  
 Scotland



**14.86%**  
 ENERGY SAVING

**NATS Prestwick Centre**  
 Scotland



**16.36%**  
 ENERGY SAVING

**Heathrow Airport Engineering Building**  
 London




**20.1%**  
 ENERGY SAVING

**Vancouver International Airport - South Terminal**  
 Canada



**17.32%**  
 ENERGY SAVING

**Middlesbrough Bus Station**  
 Teesside



**12.68%**  
 ENERGY SAVING



"The (EndoTherm) project certainly hasn't disappointed, installation was extremely simple and savings have by far exceeded our initial expectations.

The installation at Lingley Mere has been a huge success and is continuing to realise savings month on month."

**Energy Manager**  
 EMCOR UK



"Rhondda Cynon Taf County Borough Council have tried a few test cases looking at EndoTherm. We added EndoTherm into a variety of domestic buildings with no other changes. We have discovered that radiators reported as hotter (from people unaware of what we have done) and a reduction in consumption between 12-21%."

**Energy Manager**  
 Rhondda Cynon Taf County Borough Council



"After monitoring the performance for just over 1 year the EndoTherm saving averaged out at 13.6% on heating consumption which also related to a significant reduction in our carbon emissions. After our pilot and CIBSE approval this has given us the confidence to recommend EndoTherm to other potential users."

**Director (Estates & Facilities)**  
 Coleg Gwent



"EndoTherm has been added to heating systems in two of our smaller properties for approximately 2 years.

The gas savings realised have been of the order of 10-13.5%"

**Trust Estates Officer**  
 The Rotherham NHS Foundation Trust

Contact us for more information, preferential pricing, product support, training and to be added to our approved installer network:  
[enquiries@endotherm.co.uk](mailto:enquiries@endotherm.co.uk) | +44 (0)1925 747 101

[www.endotherm.co.uk](http://www.endotherm.co.uk)

