

THE **magnatech**[™] FUEL EFFICIENCY SYSTEM

EASY-TO-INSTALL ENERGY SAVING SOLUTION
FOR SCHOOLS, COLLEGES & UNIVERSITIES



Save
FUEL



Cut
CARBON



Save
MONEY

IMMEDIATE ENERGY SAVINGS

At today's fuel prices, the Magnatech system has a typical payback period of 6 to 12 months

With energy prices going through the roof, every educational establishment is thinking even more creatively about how to make savings. Schools, colleges and universities are exploring combinations of approaches that include stringent negotiation with suppliers, turning down the heat, increasing insulation plus upgrading plant with more efficient boilers.

However, there is another approach that has been around for years that needs evaluation. Magnatech is next generation energy-saving technology that involves a sophisticated magnetic wrap to pipework, straightforwardly installed by your own Facilities Team with zero down time. It generates a minimum saving of 6% day after day,

month after month, year after year. And far from being some zany outlier, big names in the education sector are already using it.

Better still, once on board, there are no annual maintenance charges or costly software updates. Once it's there, it's there.



WELL-RESEARCHED, TRIED AND TESTED OVER MANY YEARS

Given the depth of the global energy crisis, politicians explain the problem is unlikely to be mitigated for years to come. Magnatech works on virtually all Oil, Gas and LPG fired boilers, furnaces, and burners. And, better still, the system is fitted with no down time or interruption of service whatsoever. Using 15 years of development and experience with this technology, the Magnatech system is fitted to the outside of the fuel pipes providing maximum energy saving.

How does Magnatech work? The Magnatech system not only saves money by increasing fuel efficiency, it also reduces harmful CO2 and NOx emissions. The Magnatech system has a

typical payback period of 6 -12 months which is a great deal faster than better-known energy-saving systems, that may well be employed in conjunction with Magnatech's solutions to make even greater energy savings.

Our proprietary method of using powerful magnetics to control combustion behaviour is why the Magnatech system is so effective in delivering both energy savings and reducing carbon emissions that last a lifetime – and unlike new boilers that have a finite lifetime before they need to be replaced, the solution Magnatech provide loses only 1% of its efficiency every 100 years.



TRITECH ETV



HOW MAGNATECH BEGAN

Development of the Magnatech products and installation process has taken 15 years of research, refinement and testing. The Magnatech system units are manufactured to exacting specifications.

In early 2013, Sheffield University was first approached by Magnatech to verify the efficacy of the new technology. Between April - August 2013 four postgraduates engineering students found an **11% increase in thermal efficiency** on their lab boiler by using the Magnatech system and a **10% reduction in NOx emissions**.

The results:

- **Flame temperature increases**
- **11% improvement** in thermal efficiency of the boiler
- Significant **reduction in fuel usage**
- **10%** reduction in **NOx**

NOx gas is a generic term that refers to mono nitrogen oxides, NO₂ and NO which are products from the reaction between oxygen and nitrogen gases during combustion at high temperatures. NOx gases act as indirect greenhouse gases. They do this by reacting with other chemicals in the lowest atmospheric layer, called the troposphere, to produce ozone which, at this low level, acts as a powerful greenhouse gas.



CASE STUDY

D'OVERBROECK'S



I am the Bursar at d'Overbroeck's in Oxford which is an independent boarding and day school for students aged 11 to 18, currently with a roll of around 470 students (www.doverbroecks.com) and I am happy to share details of our installation of the Magnatech Fuel Efficiency System.

We were approached by Magnatech Technology Limited who were promoting the benefits of their Magnatech system. Magnatech uses powerful magnetic units placed on the pipes of boilers and water heaters which, we were told, would improve fuel efficiency and reduce consumption as well as reducing our NOx emissions.

As a school with boarding facilities we were looking for ways to reduce our yearly gas usage. We met with them and after seeing the test reports from Sheffield University and understanding the scientific principles involved, we decided to install the magnets onto the pipes of the school's boilers.

Consequently, the Magnatech system was installed in several buildings throughout the school, on a range of both domestic and larger commercial boilers.

The savings on consumption have been impressive at around 15.7% and our NOx emissions have decreased by 10% (using a full year of data readings compared to those of the previous years). Our return on investment has also been easily achieved within our budget.

We are extremely pleased with this product and would highly recommend it.

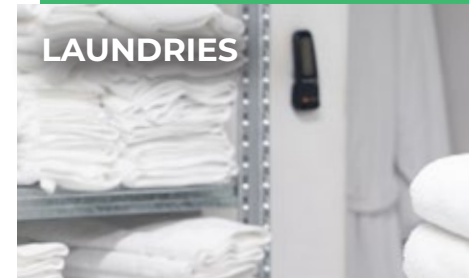
Peter Talbot *Bursar, d'Overbroeck's, Oxford*

TAILORED FOR EDUCATION

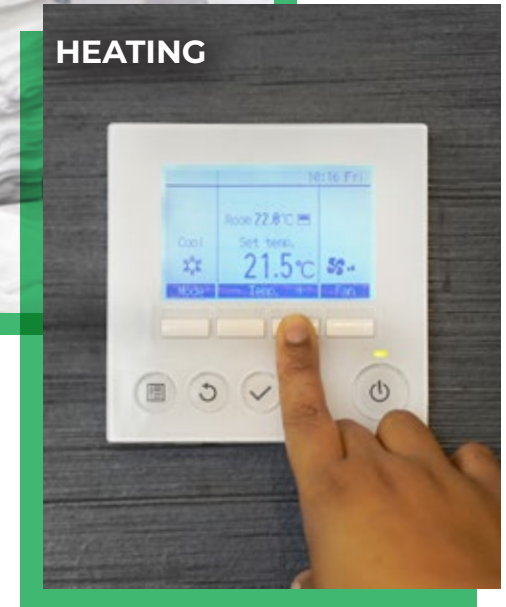
With increasingly challenging times for the education sector, maintaining optimal occupancy plus saving money have never been more important. Magnatech have developed a clever system tailored specifically for schools, colleges and universities which is well proven to **save a minimum of 6% on gas and oil** usage in all areas – and it doesn't take a mathematical genius to realise that these savings can quickly add up, because the financial benefits are generated again and again, year after year.

- Boiler water reaches **target temperature quicker**
- **Less fuel is burnt** to reach the target temperature
- Burner's 'burning time' is reduced
- Heat exchange plate **is increased in temperature** so the circulating water is hotter
- **Fewer emissions** for the same volume of fuel consumed
- **Reduction in carbon footprint**

LAUNDRIES



HEATING



WORKSPACES



CERTIFIED TECHNOLOGY

With over 14 years' experience, the Magnatech™ system has been successfully installed in many companies and institutions worldwide, from Supermarkets and Food Manufacturers to Oil Refineries, Government Buildings, Health Institutions, Research Institutions, Pubs and Restaurants, Hotels, Pharmaceutical companies and many more.

British designed, it is one of 17 companies awarded the **Tritech Environmental Technology Verification Certification (ETV)** after a 56 day test administered by Mouchel at the Pfizer plant in Northumberland, UK where it was confirmed that Magnatech reduced fuel consumption by **10.2%**.



TRITECH ETV

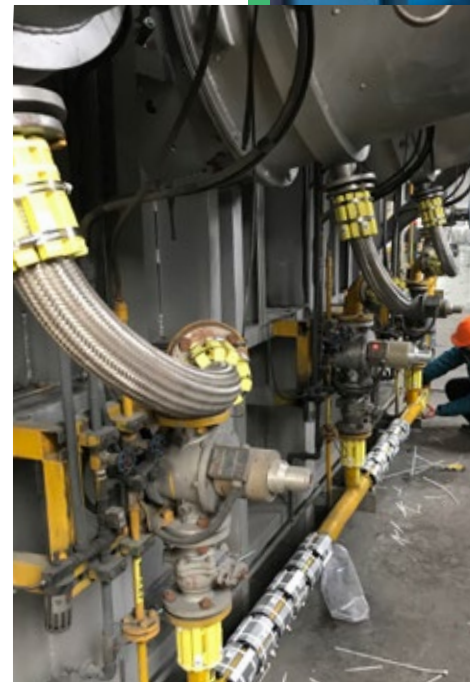


FOR THE TECHNICALLY MINDED, FUEL CONDITIONING EXPLAINED

Fuel Conditioning is based on the scientific principle that when **oxygen molecules can combine more easily with hydrocarbon fuel molecules**, the result is a more complete burn of the fuel and a hotter flame.

The nature of unconditioned fuel is that the molecules clump together in large clusters and this prevents oxygen from combining with them.

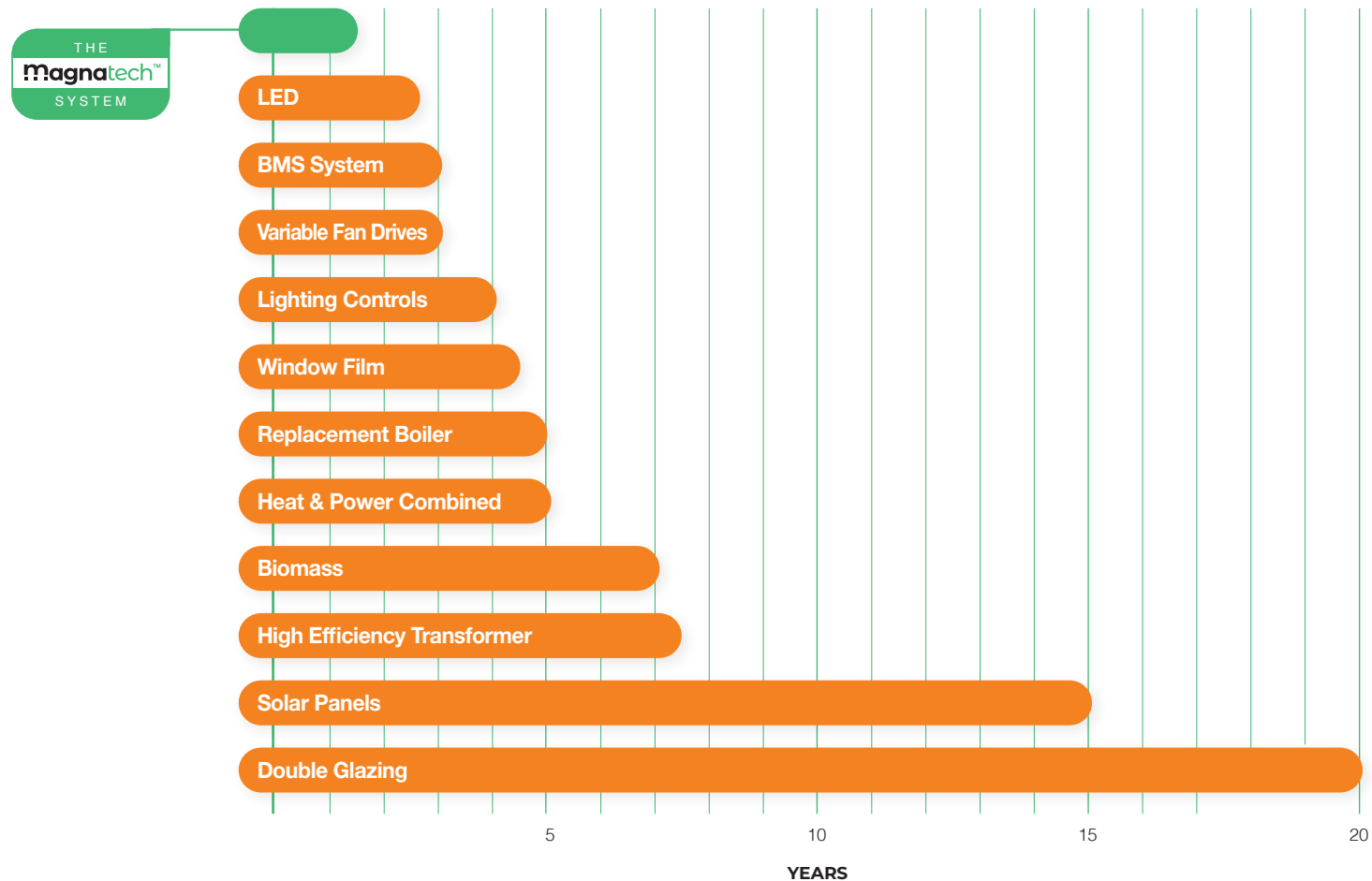
The Magnatech neodymium unit disrupts the intermolecular attraction that tends to hold these fuel molecules together in clusters. This results in the individual fuel molecules being free to react with oxygen much more easily, resulting in a hotter, more efficient flame.



PAYBACK COMPARISON



Payback time for energy saving technologies



N.B. In the current economic climate, this diagram should be used for illustrative purposes only.

THE **magnatech™** SYSTEM
DESIGNED FOR SCHOOLS
COLLEGES & UNIVERSITIES

TRITECH ETV



OUR CLIENT PORTFOLIO



A selection of companies and institutions who have invested in the Magnatech™ system



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WHAT OUR CUSTOMERS SAY



Testimonies from customers who have invested in the Magnatech™ system



“ At SPM Management, we have a wide array of different properties, and we are always looking for ways to reduce our yearly gas usage. We met with Magnatech USA LLC and after seeing the test data from the UK, Australia and China and reading through the White Papers which explained the scientific principles involved, we decided to install the system in two of our buildings in New Jersey.

...The savings on consumption have been impressive at 9.8%, which we fully understand will continue for life, as FurnaceBooster only loses 1% of its power every 100 years.

Our return on investment has been easily achieved within our budget.

Needless to say, we are extremely pleased with this product and would highly recommend it.”

Stephen Steiner

(CEO SPM Management)



“ We have been extremely impressed with the results from the Magnatech Fuel Efficiency system.

Since installation in November 2022 in our buildings at 766 Shrewsbury Avenue, Tinton Falls NJ, our usage has dropped considerably and despite the rise in gas prices, we are paying approximately 15% less than the same period last year. The savings are calculated using degree days data that compensates for the warmer winter.

We would encourage all businesses and homeowners who use gas, oil, LPG, or propane to heat their properties and to provide hot water to purchase the Magnatech / FurnaceBooster system.

We estimate our return on the investment in the system will be paid back within nine months, which is incredible.”

Abe Cohen

(Partner)

WHAT OUR CUSTOMERS SAY



Testimonies from customers who have invested in the Magnatech™ system



“ The Guinness Partnership supports the installation of a FurnaceBooster system from Magnatech Technology Limited.

From our findings, when a FurnaceBooster is installed in our customers' homes it reduces the fuel consumption of the furnaces by at least 8%. We understand this will carry on for life.

This lowered the homes energy costs and also reduced carbon emissions through less fuel being used.”

Mark Moore

(Head of Heating and Hot Water Services)



“ We, at Sure Maintenance, are extremely proud to be working with Magnatech Technology Ltd and installing their FurnaceBooster system in our clients homes.

It's a great product, completely Fit & Forget, and with no moving parts and no requirement for external power of any kind, it's a perfect solution in this time of ever increasing gas and oil prices”

Pat Coleman

(Managing Director)

“ JKP “Toplifikacija” appreciate and highly recommend the Magnatech™ system for saving natural gas.

We are very satisfied with the savings we achieved. We will install The Magnatech Technology solution in our other boiler houses as well.”

Milan Laketic

(Head of Maintenance & Production Department)



JAVNO KOMUNALNO PREDUZEĆE
JKP “Toplifikacija”

24
Директор
Славко Сладојевић

FIRST STEP?

Schedule an initial 15-minute conversation, without obligation.

To arrange this at a time that suit you please send an email or text with your contact details and we can set up a more detailed telephone call or TEAMS/ZOOM call.

magnatech™ 

Randy Criss

Managing Partner

E: info@magnatechsaveenergy.com

T: 610 - 207 - 8215