

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

DESIGNED FOR HOTELS



Save
FUEL



Cut
CARBON



Save
MONEY

MAXIMUM ENERGY SAVINGS

The Magnatech™ system works on virtually all Oil, Gas and LPG fired boilers, furnaces, and burners.

The system is fitted with **no down time or interruption of service**. Using 14+ years of development and experience with this technology, the Magnatech™ system is fitted to the outside of the fuel pipes providing maximum energy saving.

The Magnatech™ system saves money by increasing fuel efficiency and reduces harmful CO2 and NOx

emissions. The Magnatech™ system has an average ROI of 24 months.



RESEARCHED, TRIED AND TESTED

Development of the Magnatech™ products and installation process has taken **over a decade of research and testing**. The Magnatech™ system units are manufactured to our exacting specifications using rare earth material.

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*.

*The Magnatech™ system loses only 1% of its effectiveness every 100 years.



TRITECH ETV



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UNIVERSITY PROVEN

Research by Sheffield University found an **increase in Thermal Efficiency** on their lab boiler by using the Magnatech™ system and a **10% reduction in NOx emissions**. 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. Nitrogen Oxides act as indirect greenhouse gases by producing the tropospheric greenhouse gas 'ozone' via photochemical reactions in the atmosphere.

- They recorded a **flame temperature increase**
- An **11% improvement** in thermal efficiency of the boiler
- A **reduction in fuel usage**
- A **10% reduction in NOx**

Four postgraduate engineering students tested The Magnatech™ System for their research project.

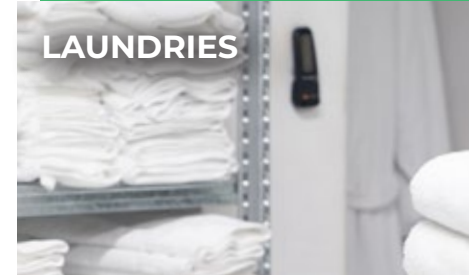


TAYLORED FOR HOSPITALITY

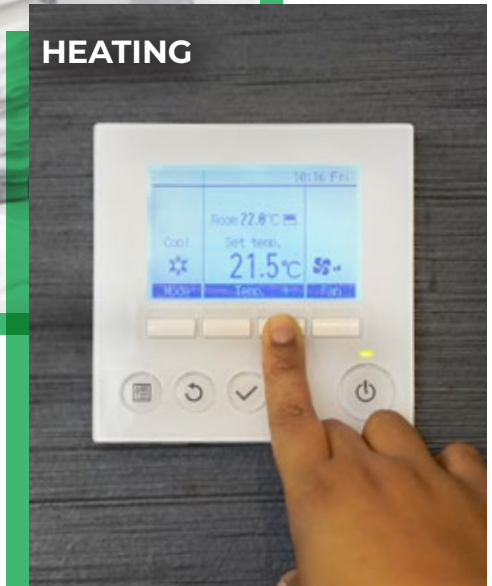
With challenging times for the hospitality industry saving money has never been more important. Magnatech™ have developed a brand new system tailored specifically for hotels which guarantees to **save a minimum of 6% on gas and oil** usage in all areas.

- Boiler water reaches **target temperature quicker**
- **Less fuel is burnt** to reach the target temperature
- The burner's "burning time" is reduced
- The heat exchange plate **increases in temperature** so the circulating water is hotter
- **Fewer emissions** for the same volume of fuel consumed and a **reduction in carbon footprint**

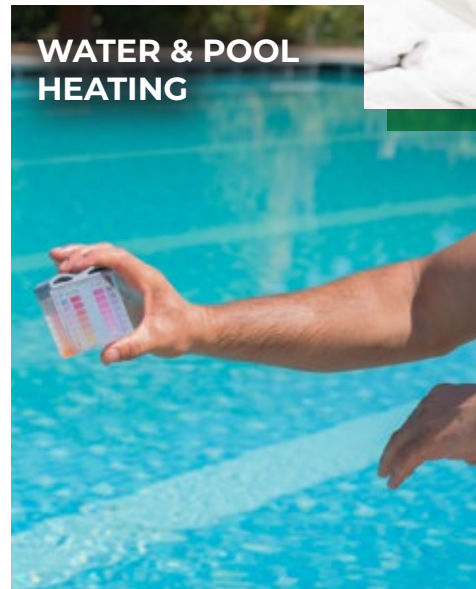
LAUNDRIES



HEATING



WATER & POOL HEATING



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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%**.



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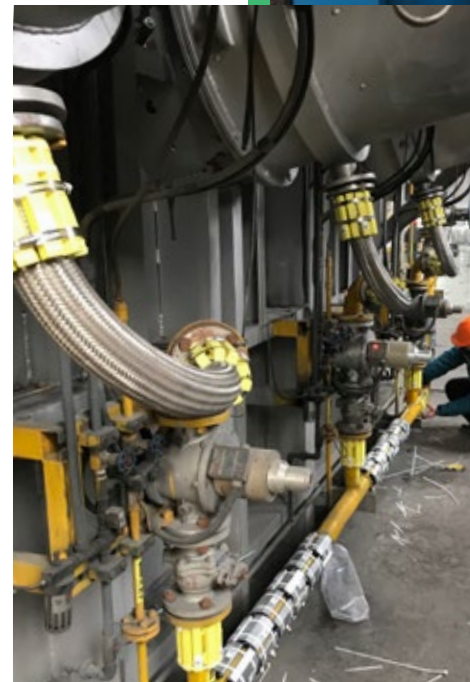


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FUEL CONDITIONING EXPLAINED

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

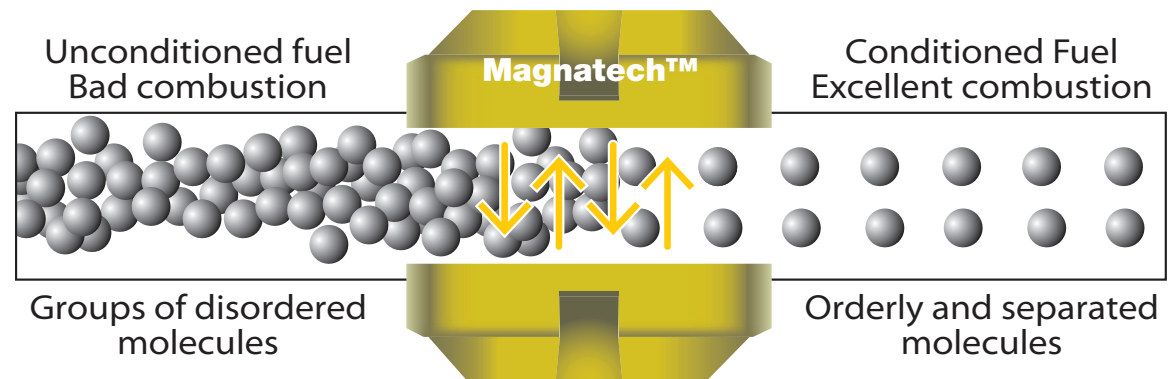
Using the energy from Magnatech™ Neodymium units we weaken the covalent bonds that hold large clustered hydrocarbon particles together, this results in smaller particles that allow more Oxygen to more easily bond **resulting in a hotter, more efficient flame.**



FUEL CONDITIONING EXPLAINED

The nature of Unconditioned fuel is that it clumps together in large “clusters” and this prevents Oxygen from combining with all carbon molecules for a complete and efficient combustion of the fuel.

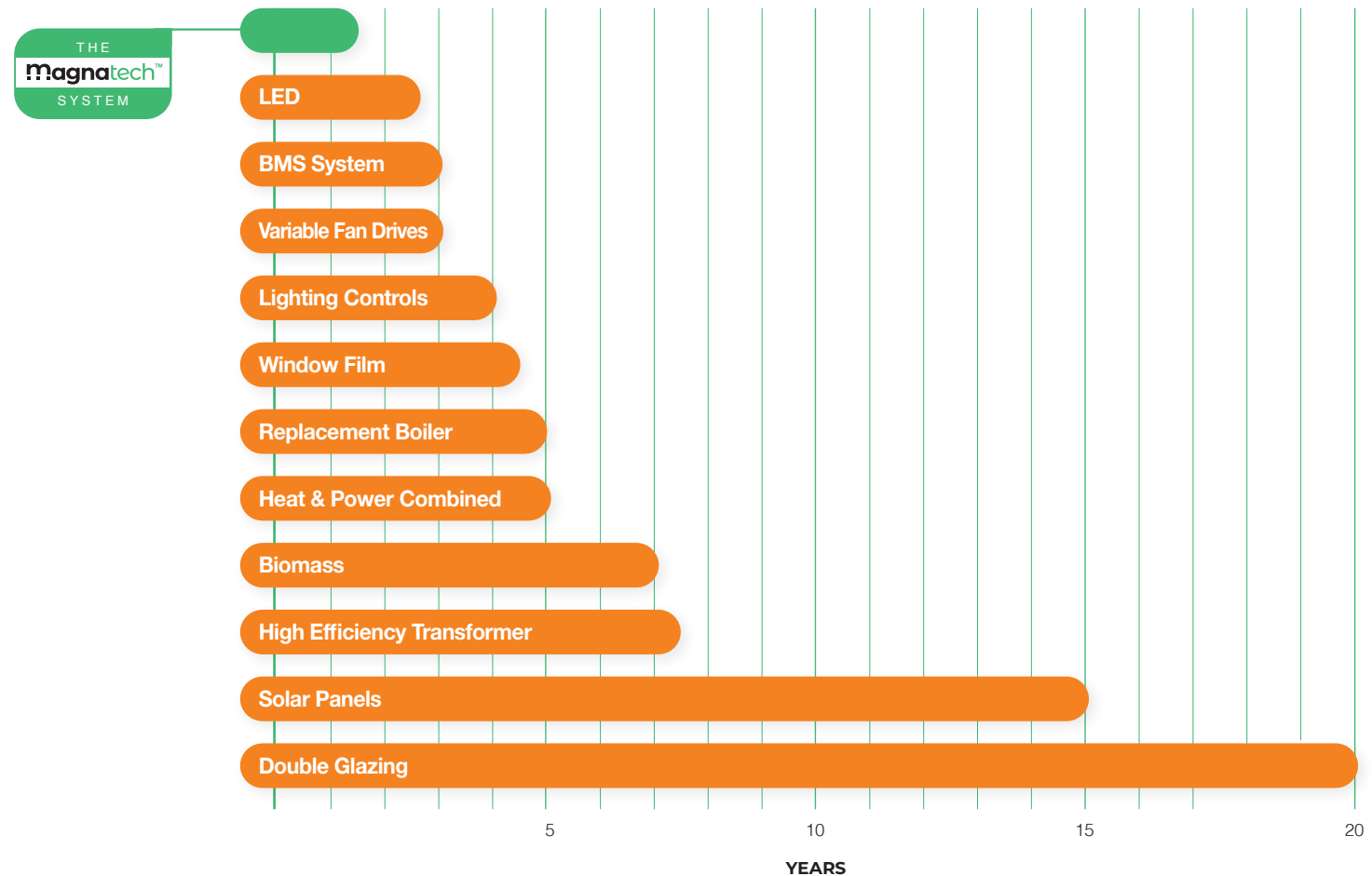
Passing fuel through the Magnatech™ proprietary magnetic fuel conditioning system breaks the covalent bonds of these clustered molecules and for a short time creates a fuel with smaller molecules that can more easily combine with Oxygen to burn at its maximum efficiency, which results in a hotter flame that is cleaner burning. A hotter flame results in reduced fuel usage and hence reduces CO₂, CO and NO_x emissions.



ROI COMPARISON



ROI time for energy saving technologies



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

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OUR CLIENT PORTFOLIO



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



MOD



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