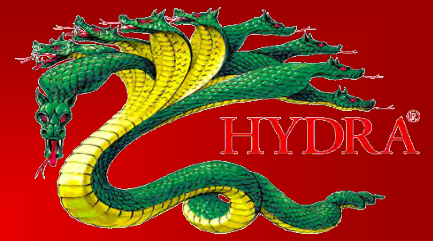


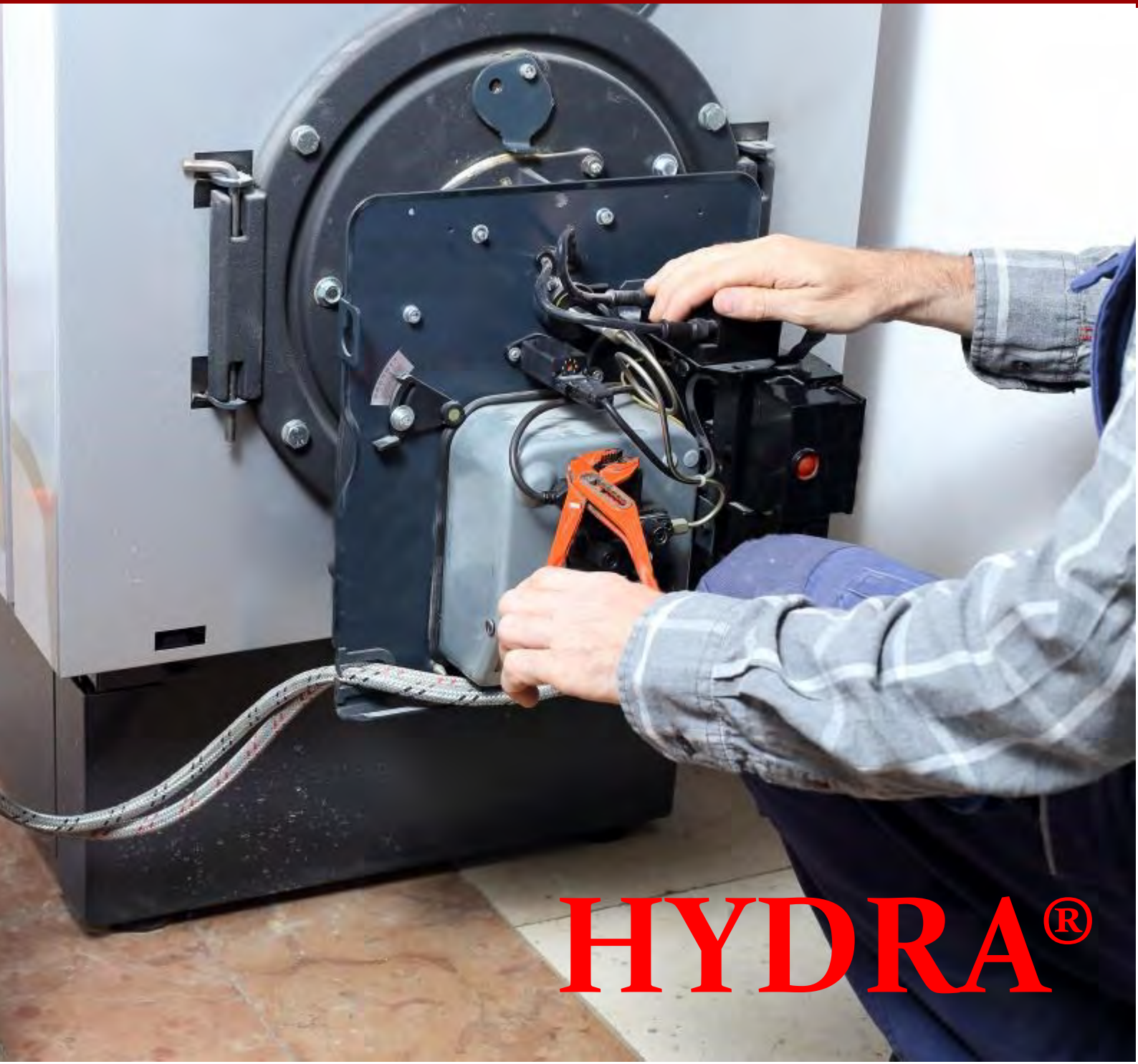
HYDRA



VULCAN

Heating Oil Additive

Clears Soot Build-up From Burner Nozzles & Injectors



HYDRA®

Features & Advantages

- ◆ Removes accumulated soot.
- ◆ Solubilises sludge in tanks.
- ◆ Improves combustion efficiency.
- ◆ Reduces oil consumption.
- ◆ Stabilises old & new fuel.
- ◆ Reduces service calls.
- ◆ Removes accumulated soot deposits from burners and injectors.
- ◆ Dissolves sludge and stops it from coming back.
- ◆ Suitable for all domestic and commercial boilers.
- ◆ Reduces All Harmful Emissions Including:
- ◆ Reduces CO₂, NO_x, THC, NMHC, CO, PM.
- ◆ 100 ml treats 500 litres of heating oil.

The Problem



Vaporising burners as found in Aga, Rayburn and Range Master cookers are very sensitive to carbon and soot build-up, it is not unknown for them to soot up every 4-6 weeks.

Hydra Vulcan prevents these deposits from building up, keeping the burners free of soot between services.

Many low quality fuels also increase burner deposits resulting in more smoke, increased emissions and greater boiler wear.

Boilers can produce black soot or more specifically soot particulate matter.

The black smoke consists of carbon compounds that have not burned because of local low temperatures when the fuel is not fully atomised.



Aga Cookers & Boilers

They use wicks only to get going, then the heat from the shells vaporises the oil as it arrives in the burner base.

This vapour burns cleanly and relatively efficiently. Sometimes though after a service, when everything is newly cleaned, too much oil can arrive at the burner base even though the flow rate settings on the valve have not been changed.

When this happens the oil cannot vaporise fast enough and it begins to burn directly. This, as you can imagine, is a sooty and messy business.

Improving the quality of your heating oil can lesson the chances of this happening.



Description

POWERFUL DETERGENTS

Hydra Vulcan contains heavy duty detergents, prevents the formation of and removes existing deposits from burners and injectors and heat exchangers.

In the oil tank safely dissolves years of corrosive sludge back into the fuel where it's burned away. While creating a protective barrier to stop the sludge gunk from coming back!

OPTIMAL INJECTOR SPRAY PATTERN

Many heating boilers are of a pressure jet design which use precise fuel metering through narrow shaped spray channels.

Injector deposits mean reduced fuel flow. Whereas 100% clean injectors give optimal fuel spray pattern.

Each finely dispersed particle of fuel is surrounded by many molecules of air (20% oxygen) ensuring a more complete burn.

This in turn gives you better fuel economy, reduced emissions and improved boiler durability.



PREMIUM UPGRADE

Using Hydra Vulcan upgrades standard heating oil to a premium standard for heating oil. The boiler fires easier with reduced soot and fuel consumption. Better combustion means less deposits on burners and heat exchanger.

Breakeven point on fuel savings against cost of product is approximately 1%. When your fuel consumption is reduced by more than 1% the product is not an additional cost, but is adding ££££'s to your bottom line.

VERSATILE

Suitable for use in domestic, commercial and industrial oil fired boilers.



INTERNATIONAL STANDARDS

All our products are manufactured to the highest International Specifications at our UK plant.

This plant is accredited to ISO 9001:2008, ISO 14001:2004 and ISO 45001:2007 ensuring that all European fuel quality standards are always adhered to.

HOW TO USE

Heavily Contaminated Fuel System

Dilution Rate 1:2500 i.e. 1 litre treats 1,000 litres of heating oil.

Refuelling Dose to Protect Clean Fuel System

Dilution Rate: 1:5000 i.e. 100 ml of treats 500 litres of heating oil.

Treat oil tanks every time they are topped up.



Laboratory Facilities

Hydra International Ltd.'s Research & Development Laboratories are a hub of activity where new products are developed and formulated. We have working relationships with our raw material suppliers, many of these suppliers are major world-wide chemical manufacturers with their own development laboratories.

As a company we are well known in the chemical industry for being receptive to cutting edge new chemicals which can be incorporated into our products to achieve performance advantages. An important part of the International Standards that we hold is that of constant improvement. We show that we have achieved this at every independent audit.



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