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INSTRUCTIONS TO MIX AND APPLY.

For Professional use only.

FOR USE ON OIL FIRED STANDARD AND CONDENSING PRESSURE JET BOILERS. Class (C2&D). Fuels.

DO NOT USE DUALX ON ANY VAPOURISING OIL APPLIANCE!

DUALX WILL NOT REMOVE UNBURNT OIL OR TAR.

REMOVE ANY OIL WITHIN THE BOILER BEFORE USE.

READ ALL INSTRUCTIONS BEFORE USING THIS PRODUCT.

DUE CARE TO BE TAKEN WHEN USING THIS PRODUCT.

CARRY OUT AND IMPLIMENT ALL RISK ASSESMENTS AS NECCESARY.

PART A. Liquid

Add 3 to 5Ltrs of cold or warm water (not hot) into a 3 or 5 Ltr garden type pressure sprayer with a flexible lance and adjustable nozzle. (Available from Dualx).

Add 3 to 4 X 25ml measures of PART A liquid (**release cap and squeeze slowly to fill the measure to the top (25ml) pour the liquid into the sprayer and repeat further to total the measure. Refit the cap.**) Note, depending on the deposit within the boiler you can vary the volume mix providing the result is satisfactory.

PART B. Powder

Add 1 x 90ml measure (90 gm) Supplied inside pack of PART B generator powder into the water within the sprayer. (Reseal powder container and keep dry.) Fit the sprayer cap and rotate in a swirling motion for a few seconds. Charge the sprayer.

DUALX is now ready for use!

INSTRUCTIONS FOR USE. (Balanced and low level discharge type flues).

- (1) Isolate the boiler and apply usual safety methods when servicing an oil-fired boiler, Remove the baffles. You can remove any excess deposits with a vacuum cleaner. (Not to waste Dualx on these).
- (2) If the boiler is cool, Leave out the baffles and replace the flue cover, fire the burner in Hot water mode for a few minutes until the water jacket of the boiler is approx 50 to 60 degrees C.
- (3) Isolate the boiler on the main switch, and remove the flue way cover.
- (4) Spray **DUALX** solution onto all the combustion surfaces using a medium spray nozzle setting until no more deposit build up is being removed and all the surfaces are saturated. For heavy layers you can add further small measures of part A and B to the sprayer water to strengthen the mix further (e.g. 1 additional measure of part A and 1/4 a scoop of part B)
- (5) Replace the flue cover and re-fire the boiler for about 5 minutes raising the **temperature 50 to 60 degrees or above.** You can ask your customer to leave the boiler on DHW mode before you arrive, use a dry leather welding glove and hook to lift out the baffles placing them on a suitable surface.
- (6) Isolate the boiler and remove the cover, spray any deposits not fully penetrated, replace the baffles and flue cover. Any remaining deposits should burn off during testing and firing at the end of the service. Usually the same time given before combustion tests are taken 5-7 mins. after this time the condense discharged from spraying should not harm test equipment fitted with a normal water trap or effect the combustion readings.

Note When applying DUALX to condensing boilers with a built in condensate pump or trap, remove the take off the trap bowl and place a small container below the outlet as any pieces of debris washed down could cause a blockage. Reconnect the pump or trap after final firing. For most boilers with top condensing sections a small container held just below this section (E.G. a brush pan with a rubber front edge). Will catch any spray and drips spilling down.

(CONTINUED OVERLEAF).

INSTRUCTIONS FOR USE (Top Access Conventionally Flued Boilers)

Follow instructions as listed for Balanced Flue Boilers above (1 to 3) except : -

(4) Hold Cleaning access door loosely over top opening and fire the burner, after a few seconds flue gasses should be pulled up the warmed flue and not into the room. Uncover the front edge of the opening enough to be able to spray the boiler combustion surfaces without flue spillage into the room. Spray the surfaces with the burner still firing until deposits are removed.

You can mix up several dosed batches for the day in one go. The mixed solution degrades after 5 to 7 days, after which it will lose its full potential. You can safely dispose of old product down the drain, diluting further with running water, (or if the mix is not too old top up with some added doses of Dualx concentrates).

HEALTH AND SAFETY.

Dualx **A** and **B** compounds.- Transportation classification.-, Non-Hazardous.

Regulation classification.- Non-Hazardous.

For professional use only. Wear protection you would normally use when cleaning oil boilers.

Contains non-volatile liquid neutral surfactants, powder chemical compounds and Inert catalysts.

Please note that any solution or powder in contact with the eyes should be washed off immediately with plenty of water, if irritation persists seek medical advice. In very rare instances some people may have a slight allergic reaction if the solution is left in contact with the skin. Seek medical advice in this event.

NOT DESIGNED FOR HUMAN CONSUMPTION. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. IF LARGE VOLUME ORAL INGESTION OCCURS WITH ANY DUALX PRODUCT, WASH OUT MOUTH WITH WATER AND SEEK MEDICAL ATTENTION.

Although not hazardous in normal use, as a precaution do not over expose or readily inhale condense rising from the boiler as some users may have a slight reaction or sensitivity. Seek medical advice in this event. **When making risk assessments responsible persons should ensure this information given is covered there in. Dualx manufacturers cannot be held responsible for any site specific omissions.**

NOTE: - **DUALX** relies on a catalytic action to attack the build up of combustion deposits formed during healthy normal burning over a period of time. Any soot formed with or without these deposits will be effectively removed and burnt off .

For Heavily Sooted Boilers. The burner must be able to burn with excess oxygen .To enable this it may be necessary to increase air settings or manually clear a wider flue path in some boilers e.g. Secondary heat exchangers in condensing boilers. (Spray a generous application of Dualx to clear).

Sooted boiler mix and method Heat up the boiler, switch off and carefully remove the flue access cover, vacuuming any spill and the inside of the door cover if required. **Leave the baffles in the boiler!** Note: - on low-level flues it may be advisable to cover the terminal if wind or air pressure could blow soot back into the room when opening the flue way cover, remember to remove the temporary terminal cover before firing the boiler!

SOOT MIX: - Add 3ltrs of water to the empty sprayer add to this 1 scoop of (part B) powder and 4 measures of part "A" liquid, swirl to dissolve. Adjust the spray nozzle to a fine mist setting and spray lightly over the soot build up until wet, turn up nozzle to a single jet spray and wash/coat sides of combustion areas and baffles. Refit the cover and fire the boiler for 3-5 mins, switch off boiler remove treated baffles spraying any deposits remaining, Refit cover and re-fire boiler for 4-5 mins, repeat if required, replace baffles and flue cover carry on with service/repairs.

NOTE when burning off soot deposit, soot particles may be emitted from the flue terminal. **Take precaution with any property and items which may be affected by such a discharge.** E.G. Wind direction and speed effecting cars, washing, children in pushchairs/prams near the terminal and any other objects nearby at risk.

Condensing boiler secondary heat exchangers may need a higher spray/jet application with the excess fluid caught in a container after removing the trap or access. The contained product will not be acidic or contain any abnormal volumes of hazardous materials and can be washed to drain with added water to dilute further.

For purchase and further information Visit: - WWW.DUALX.Co.Uk or contact. 07982350607 or 02922216025.