



Periodic maintenance is an "Warranty obligation" It is essential to the safety, efficiency and life of the boiler It allows for the reduction of Gas consumption, polluting emissions and reliability over time.

Before starting; close the fuel and water taps of the heating and domestic hot water system and isolate power supply.

To ensure product characteristics and efficiency remain intact and to comply with prescriptions of current regulations, it is necessary to render the appliance to systematic checks at regular 12 monthly intervals.

This Includes the following tasks:

Check the ignition, switch-off and of the appliance, in both domestic water mode and heating mode

Check the seals of the gas, water and condensate connecting pipework

check the position and condition of the ignition electrode

Check the position and gap (between burner and tip of the detector electrode/ionization probe (see over A1)

After carrying out any component replacement, analysis of the combustion products should be carried out to make sure it is operating correctly.

If, after replacing the electronic board or having carried out maintenance on the detector electrode or the burner, an analysis of the combustion products returns values outside tolerances, it might be necessary to change the values as described in the section "4.17 Combustion check in the appliance manual.

**Note:** When replacing the <u>lonization electrode</u> there can be slight variations of the combustion parameters that will fall within nominal values after a few hours of operation.

# BURNER / HEAT EXCHANGER & BURNER TUBE

#### Opening up the heat exchanger

Switch off the electrical supply by turning the system's main switch to "Off".

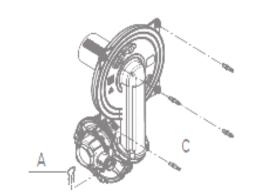
Close the gas shut-off valve.

Remove the burner cover casing by

- 1/ Disconnect the connecting cables of the electrodes.
- 2/ Disconnect the two power cables to the fan.
- 3/ Take out the spring retaining clip A of the gas pipe entering the fan mixer.
- 4/ Loosen the nut securing the pipe to the top of the Gas Valve and swing out the pipe
- 5/ Remove the 4 nuts (C) that fix the combustion face plate
- 6/ Take out the air/gas conveyor assembly including the fan and mixer, be careful not to damage the insulating panel and or the electrodes.
- 7/ Remove the condensate connecting pipe from the condensate drain fitting at the base of the Heat exchanger and connect a temporary drain pipe.

## Heat exchanger cleaning

- 1/ Vacuum out any dirt residues inside the heat exchanger, being careful NOT to damage the retarder insulating panel.
- 2/ Clean the coils of the heat exchanger with a soft / medium stiffness bristled brush. (do not use a wire brush)
- 3/ Clean the spaces between the coils using 0.4 mm thick blade, Vacuum away any residues produced
- 4/ Rinse with water, being careful NOT to damage the rear retarder insulating panel
- 5/ If there are obstinate combustion products on the surface of the heat exchanger, clean by spraying natural white vinegar, *be careful NOT to damage the retarder insulating panel*. Leave to work for a few minutes and agitate with a brush. 6/ Clean the Burner blast tube with your Brush & ensure there are no blocked apertures.



Once the cleaning operations are finished, carefully reassemble all the components, following the above instructions in the reverse order. Turn the power and gas feeding to the boiler back on.

## Cleaning the Condensate Trap (Siphon)

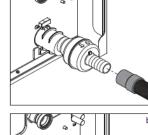
The Trap is located inside the boiler but is removed from below the boiler

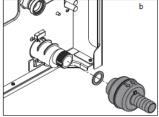
First remove the condensate drain line then remove/unscrew the SRD Device (if applicable)

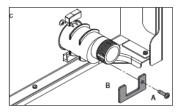
- 2/ Remove the C shaped trap tetainer by removing the philips securing screw
- 3/ With a towel below turn the trap half a turn and pull out the trap (Take care as it should be full of water )
- 4/ Clean the siphon, it can be washed with detergent water.

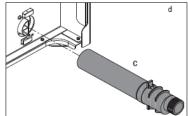
Wash the SRD device out thoroughly (Never use metal or pointed tools to remove deposits or residues inside the device, as they could damage it.)

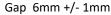
After the cleaning reassemble the siphon and the SRD device, taking care to fit the components with care.

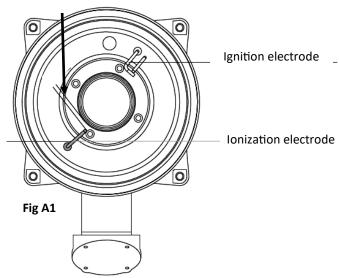












#### Combustion fan check valve (Fig. 22)

The boiler has a combustion inlet check valve between the fan and inlet conveyor To access the check valve:

1/ Remove the fan by unscrewing the 4 screws fixing it to the conveyor

# As you remove it take great care to note which way around the check device it is fitted

2/ Make sure there are no foreign material deposits on the membrane of the check valve and if present remove them check for damage and that the valve opens and closes correctly

Re-assemble the components in reverse order, making sure it is put back in the correct direction.

