



## **Procedure for De-scaling Boilers on site (Instanta & Marco Models)**

(For non Greenworks Boilers please call Warrington for further advice)

### **Wall mounted Boilers**

1. Turn off mains and water supply
2. Ensure **“Out of Order Sign”** is clearly displayed to identify boiler is undergoing sanitation.
3. Remove 2 x screws from top and bottom of boiler
4. Carefully remove front of boiler and unplug LCD display panel plug from circuit board (older models you will need to unscrew tap to remove front panel)

\*\*\*Measure required dose into Stainless steel jug (see below for recommended dosage) and add gradually to tank containing hot water to Probe 1 level – allow to work for between 20 – 40 mins depending on build up of scale. Whilst waiting for de-scaler to work, clean metal plates, taps and exterior of boiler\*\*\*

**\*Please take care not to knock or splash water or de-scaler solution on circuit panel at any time\***

5. Remove polystyrene cover and undo 4 screws located at each corner of cover (Do not lose screws). Gently lift lid and bend to left of unit – allow to drain
6. Looking inside unit – carefully remove 2 metal plates located inside (CAUTION HOT) – place to one side for cleaning at later date
7. WHEN DE-SCALING PAY SPECIAL ATTENTION TO PROBES + PARTS WHERE SCALE CAN BUILD
8. After required time has elapsed place bucket under unit and carefully remove drain tap to drain down tank – you can also open dispensing tap to clear quicker
9. Once tank is empty – using existing outlet connection on filter, add piece of John Guest piping and flush unit using mains supply – ensure unit is thoroughly flushed paying particular attention to probes/sensors – clean sensors/probes with wire wool to remove scale build up and re-flush to remove debris from wire wool.
10. If large build up of scale is present – complete process again – re-filling hot tank from kettle/hot tap.
11. Once tank is completely flushed, re-assemble unit using great care.

### **Free Standing Boilers**

1. Turn off mains and water supply
2. Ensure “**Out of Order Sign**” is clearly displayed to identify boiler is undergoing sanitation.
3. Remove 2 x screws from top and bottom of boiler
4. Carefully remove front of boiler and unplug LCD display panel plug from circuit board (older models you will need to unscrew tap to remove front panel)

**\*Please take care not to knock or splash water or de-scaler solution on circuit panel at any time**

Measure required dose into Stainless steel jug (see below for recommended dosage) and add gradually to tank containing hot water to Probe 1 level – allow to work for between 20 – 40 mins depending on build up of scale. Whilst waiting for de-scaler to work, clean metal plates, taps and exterior of boiler

5. After required time has elapsed, drain down unit via taps until virtually empty, remove unit from plumbing (this is not difficult) and pour remaining water into sink.
6. Once tank is empty – using existing outlet connection on filter, add piece of John Guest piping and flush using mains supply – ensure unit is thoroughly flushed paying particular attention to probes/sensors. Probes/sensors should be cleaned using wire wool to remove scale build up, then re-flush to remove debris created from wire wool
7. If large build up of scale is present – complete process again – refilling with hot water to speed up process.
8. Once tank is completely flushed, re-assemble using great care.

### **Recommended Dosage**

**Always ensure you use correct dispensing bottle clearly marked with dosage levels**

#### **Light Scale Area**

Add de-scaler in 200ml measures. Although to settle to assess effect before adding further measures of 200ml if necessary

#### **Heavy Scale Area**

Add de-scaler in 400ml measures. Although to settle to assess effect before adding further measures of 400ml if necessary

NB – Be aware that the washer on the drain tap with Wall Mounted Instanta Boiler may reduce in efficiency with use and may occasionally need replacing

**PLEASE REMEMBER THAT WHEN SANITISING BOILERS, YOU MUST EXCHANGE 165BN SCALE INHIBITOR AT EVERY SERVICE**