



## The Classeq Under Counter Range



### Glasswashers

Eco 1  
Eco 2  
Eco 3

Duo 2  
Duo 3

### Dishwasher

Hydro 400  
Hydro 700  
Hydro 750

Duo 400  
Duo 750

**Service** ☎ 0844 2245 245 ✉ [service@classeq.co.uk](mailto:service@classeq.co.uk)

**Spares** ☎ 0844 2245 252 ✉ [spares@classeq.co.uk](mailto:spares@classeq.co.uk)

**Sales** ☎ 0844 2245 249 ✉ [sales@classeq.co.uk](mailto:sales@classeq.co.uk)

**[www.classeq.co.uk](http://www.classeq.co.uk)**



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### **Useful Contact Details**

**[www.classeq.co.uk](http://www.classeq.co.uk)**

**Service** ☎ 0844 2245 245 ✉ [service@classeq.co.uk](mailto:service@classeq.co.uk)

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TO HELP WHEN CONTACTING PLEASE QUOTE THIS SERIAL NUMBER

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## 1.0 Safety Instructions

### 1.1 Warning:



**CAREFULLY READ THESE INSTRUCTIONS, BEFORE INSTALLING AND OPERATING THIS APPLIANCE**

**INCORRECT INSTALLATION, ADAPTATIONS OR ALTERATIONS COULD RESULT IN INJURY OR DAMAGE TO PROPERTY**

**MALICIOUS DAMAGE, DAMAGE DUE TO NEGLIGENCE, OR FAILURE TO COMPLY WITH THESE INSTRUCTIONS AND LOCAL LEGISLATION, OR UNAUTHORISED TAMPERING WILL INVALIDATE ANY WARRANTY AND RELIEVE THE MANUFACTURER OF ALL LIABILITY**

**THE DOOR OF ANY APPLIANCE MUST NEVER BE USED TO STAND ON**

**DAMAGE TO THE MACHINE CAUSED DUE TO LIMESCALE WILL NOT BE COVERED BY THE MANUFACTURERS WARRANTY**

**EACH DAY ALLOW MACHINE TO HEAT BEFORE FIRST WASH CYCLE**

**CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH, OR OPERATE THE APPLIANCE**

### 1.2 Installation :

Installation should only be carried out by a '*Classeq*' approved technician, and in accordance with current regulations and within our instructions.

### 1.3 Modification :

'*Classeq*' reserves the right to modify either the appliance or the contents of these instructions without notice.

### 1.4 Operation :

The appliance should only be used by a trained operator as instructed in section 5 of this manual.

### 1.5 Failure / malfunction :

In the event of a failure / malfunction, the mains electrical and water supplies MUST be isolated at the wall and not just at the machine.

### 1.6 Repairs and spare parts :

The appliance must only be repaired by a '*Classeq*' approved technician, using genuine '*Classeq*' spare parts.



## 2.0 Your Classeq appliance

### 2.1 Unpacking :

Use suitable means and protective equipment to avoid injury whilst unpacking and handling the appliance. Remove all outer packaging and the protective film from the outer panels of the appliance prior to installation.

Ensure all packing materials are disposed of in accordance with local and national regulations.

### 2.2 Items included within appliance:

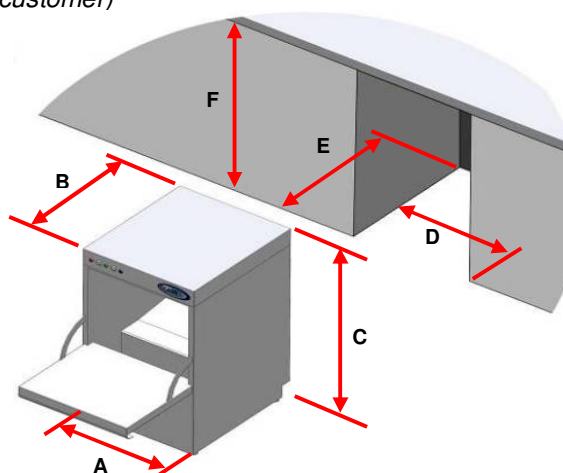
- 2 x Baskets
- 1 x Cutlery basket (*Dishwashers only*)
- 1 x Water inlet hose
- 2 x Primary filters
- 2 x Secondary filters (*Only 1 on Gravity drain machines*)
- 1 x Drain plug (*Gravity drain machines only*)
- 2 x Bottle weights (*for Rinse Aid and Detergent tubes*)
- 1 x Installation and Operation Instructions (**Must** be left with the customer)
- 1 x Warranty card (**Must** be left with the customer)

## 3.0 Installation

### 3.1 The site :

Ensure there is sufficient space for installation, servicing and easy access to all mains isolator switches / valves (i.e. electricity and water). The surface your appliance will be installed onto **MUST** be adequately stable and capable of supporting the appliance during normal operation.

Once installed ensure the appliance is stable, with its weight being distributed equally and does not tilt more than 3° in any direction.




Dimensions (mm)		Eco 1	Eco 2 & Hydro 400	Eco 3 Hydro 700 Hydro 750	Duo 2 & Duo 400	Duo 3 & Duo 750
Machine	'A' = Width	410	450	550	470	570
	'B' = Depth	510	535	625	535	625
	'C' = Height (min)	640	740	825	750	835
Recess	'D' = Width (min)	413	453	553	473	573
	'E' = Depth (min)	530	555	645	545	645
	'F' = Height (min)	660	760	845	770	855
Machine fully loaded weight		45 kg	61 kg	105 kg	64 kg	110kg
Operating noise levels		<70db	<70db	<70db	<70db	<70db

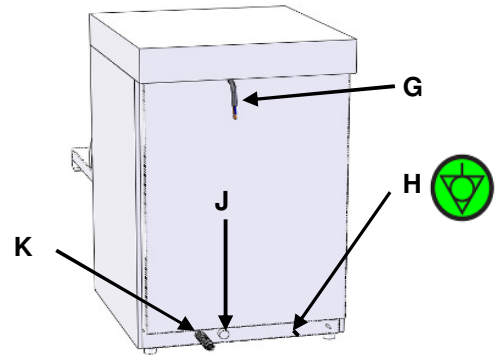
**THE DOOR OF ANY APPLIANCE MUST NEVER BE USED TO STAND ON**







**3.2 Connections :**

All mains connections are made at the rear of the appliance

- G** = Mains electrical supply lead
- H** = Earth bonding / Equi-potential stud 
- J** = Water supply connector (G 3/4")
- K** = Drain / waste water hose



To aid both installation and connection of the appliance, 'Classeq' recommends the following hand tools are used.

Recommended hand tools			
	4.0mm - Allen key		Wire cutters
	Electric screw driver (small)		Spirit level

**3.3 Electrical connection :**


All electrical connections **MUST** be carried out by an authorised technician and in accordance with local and national wiring regulations. As a minimum 'Classeq' recommends that the following standards are maintained :

All appliances are connected via a residual current device (R.C.D.) or earth leakage protection device.

**EN 60204**

Supply isolator switch must have all pole separation of more than 3mm.

**EN 60335**

The appliance must be connected to a equi-potential conductor  , the connection stud is located at the rear of the appliance (a suitable ring terminal shall be required), this is in addition to the earthed electrical supply.

Prior to connecting the appliance, ensure that the voltage and the supply fuse complies with the rating plate on the appliance.

If the supply cable is damaged, it must be replaced by a cable or cord assembly supplied by Classeq, or its service agents, or to the following minimum specification.

Machine rating	Cable type	Temp. rating	Length of cable	Conform to
220-240V / 1N~ / 13A	PVC 3G 1.5	80°C minimum	2.75m	IEC 60335-2-58 & IEC 60227 types 56 & 57
220-240V / 1N~ / 20A	PVC 3G 4.0			
220-240V / 1N~ / 32A	PVC 3G 4.0			
380-415V / 3N~ / 13A	PVC 5G 2.5			

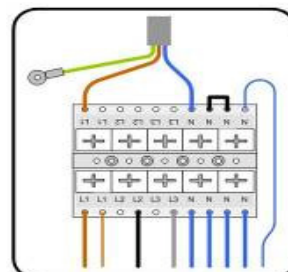
For electrical rating of appliance refer to rating plate located on appliance or in this manual.

## 3.3.1 Electrical rating :

Within the '**Claseq**' range several of the 500mm<sup>2</sup> basket appliances can be either down rated or up rated electrically, such a procedure **MUST** be carried out by a '**Claseq**' approved technician. The down / up rating of the machine is carried out by configuring the terminal block within the appliance to the following

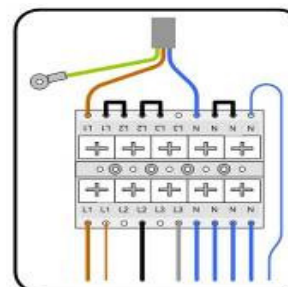
### 13 Amp – Single phase

- Links removed between L1, L2 and L3
- Ensure link remains between neutrals (N)



### 30 Amp – Single phase

- Ensure all link remains between lives terminals (L1, L2 and L3)
- Ensure link remains between neutrals (N)



### Three phase

- Only Eco3 and H750 appliances can be converted to three phase, this is performed by removing electrical links at the terminal between L1 L2 & L3, then installing a new 5 core supply cable, i.e. L1, L2, L3, N and Earth (PE).

## 3.4 Water connection :

The appliance comes with a water supply hose requiring a G<sup>3</sup>/<sub>4</sub>" (3/4" BSP) male threaded connection at the mains water supply, upon installation and commissioning all water joints must be checked for leaks.

New hoses supplied are to be used. Old existing, defective or damaged water supply hoses are NOT to be used when installing the appliance.

Commercial appliance wash results will be effected by external conditions such as incoming water temperature, pressure, harness and choice of chemicals.

For the longevity of any water related devices and to ensure you get consistently good results it is essential your machine is either fed from a soft water supply , or your Claseq appliance is connected to an appropriate water softener.

**IMPORTANT - All supplier warranties are void if lime scale is present within an appliance.**

### 3.4.1 Water supply restrictions :

Water supply constraints must be adhered to :

Incoming water temperature

4 °c minimum  
55 °c maximum

Supply water dynamic pressure

0 to 2 bar (0 to 200 kPa)	Rinse booster pump required
2 to 4 bar (200 to 400 kPa)	No modifications required
4 to 6 bar (400 to 600 kPa)	Flow restrictor required
6 bar plus (600 kPa plus)	Pressure reducing valve required

***If the above requirements are not adhered to, the performance of the appliance will be impaired***

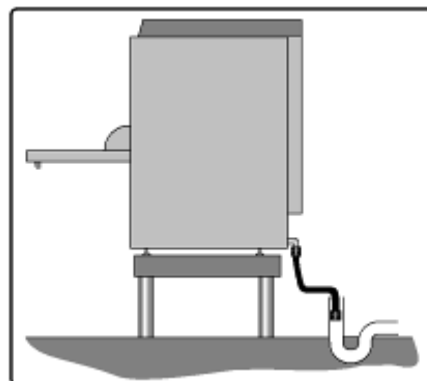
### 3.4.2 Drainage systems

#### Gravity drain appliances

Waste hose must flow down from the waste outlet to the drain.

Ø40mm (1 ½") standpipe required, must be lower than the Baseline of the appliance.

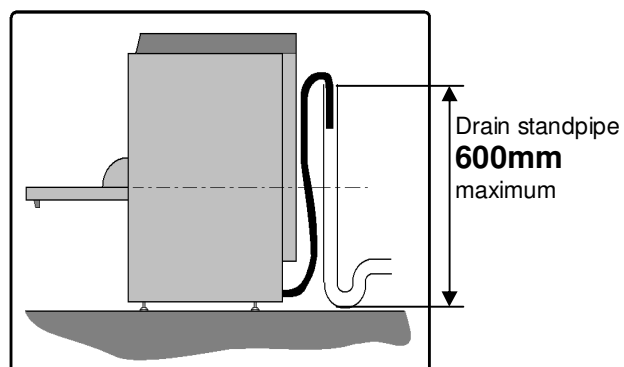
Joint between standpipe and waste hose must be water tight.



#### Pump drain appliances

Waste hose can either flow down from the waste outlet to the drain or go into a standpipe with a maximum height of 600mm

Ø40mm (1 ½") standpipe required, must be no lower than The baseline of the appliance.



If you have any doubts about the drainage system on the machine, please either contact **Classeq** or your dealer / agent



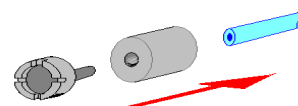
## 4.0 Commissioning

### 4.1 Rinse aid & detergent :

Chemical pump(s) are located behind the front lower panel, prior to removing any panels all electrical supplies MUST be isolated. An Allen key is required for this operation.

A coil of PVC hose is attached to each chemical pump, un-coil PVC hose and feed through either the slots just behind the chemical pumps, or out through the rear of the base.

After to feeding the PVC hose into the chemical bottle, push the bottle weight supplied onto the end of each PVC hose.



Ensure the correct chemical tubes now go to the corresponding chemical bottles. (*i.e. rinse aid hose into rinse aid bottle*).



**WARNING** : Only rinse aids and detergents developed for commercial glass and dishwashers are to be used, rinse aids must be suitable for water temperatures down to 40 °C.

#### 4.1.1 Priming of Rinse aid & Detergent :

This procedure is only required when commissioning the machine and not in normal operation

Ensure the machine is empty of water

Switch the water supply OFF

Now switch the machine ON at both the mains supply and at the fascia for 90 seconds only

Now switch the machine at the OFF at the fascia

Turn the water supply ON

The rinse aide will now be primed, the machine can now be switch ON and allowed to fill & heat as normal.

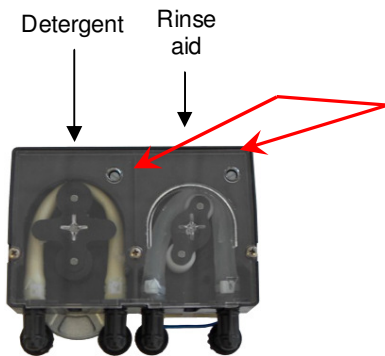
#### 4.1.2 Chemical dosage :

Chemical doses are pre-set, however they can be adjustment to suit the Individual sites requirements, such adjustment is made by turning an adjuster screw on each chemical pump.

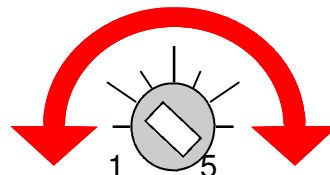
#### 4.1.2 Chemical dosage (cont)

The chemical pumps are located behind the front lower panel.





Detergent pump is the left hand pump  
 Rinse aid pump is the right hand pump  
 Adjustments are made by rotating the adjuster screw in the front of the pumps



- + Increase dosage, rotate screw clockwise ↻
- Decrease dosage, rotate screw anticlockwise ↻

#### 4.2 Rinse & wash tank temperatures :

The water temperatures on 'Classeq' range of machines are adjustable, but have been preset, and should never be adjusted above these temperatures.

Machine type	Temperatures	
	Rinse water	Wash water
Glasswashers	70 °c	55 °c
Dishwashers	80 °c	

#### 4.3 Demonstration :

'Classeq' recommends that prior to leaving the site / installation, the installer demonstrates the following to the end user, as this will ensure the appliance is correctly used

- What to do in case of an emergency, i.e. how to isolate the mains electricity and water (see section 1).
- Switching the appliance on.
- Operating the appliance.
- Draining down.
- Switch the appliance off.
- Clean the appliance, including removal and replacement of all filters.
- Replenishing and priming of rinse aid and detergent.

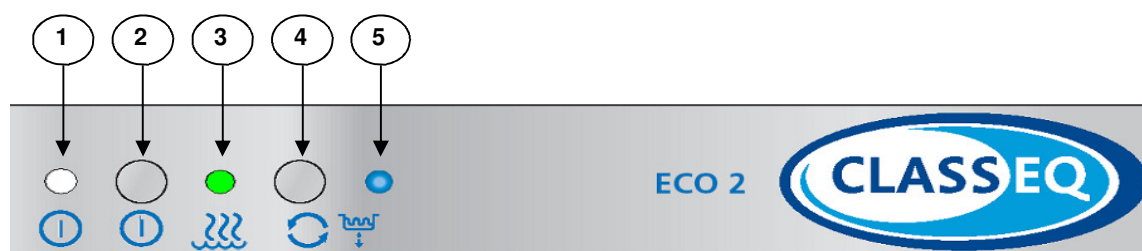
## 5.0 Operation

### 5.1 Machine description :

The design of commercial glass and dishwashing machines differ from their domestic versions as they are designed to run nearly continually for many hours.

### 5.2 Controls :

Prior to switching the machine ON ②, ensure that you are familiar with the controls on the front fascia of the appliance and the location of the isolator for mains electricity and water supply.



- ① ON / OFF lamp
- ② ON / OFF switch
- ③ Machine ready lamp
- ④ Cycle switch
- ⑤ Cycle lamp

#### Note !

Appliances fitted with a drain pump, the Cycle switch and lamp double as the drain down switch and lamp

If in doubt please contact '*Classeq*' for advise.

### 5.3 Switch the machine on :

Ensure that both the water and electrical supply are connected and switched on, then depress the 'ON/OFF' switch ② located on the fascia of the machine.

The machine will now automatically fill and heat, during this process the door should remain closed, allowing the process to be completed quickly.

### 5.4 Machine ready to operate :

It is IMPORTANT after switching the appliance on each day, to allow 25 minutes before starting the first wash cycle; regardless of the fact that the green Ready light ③ will already be illuminated.

The appliance is designed to only start a cycle when the correct temperatures are achieved, so there may be a pause between a cycle being selected and the cycle starting

## 5.5 Starting a cycle :



To start a cycle, open the door, load the first basket, ensuring that bottom and top arms rotate freely.

Close the door, then depress the 'Cycle' switch ④, the cycle will now start once the appliance has achieved its correct temperatures, during the cycle the 'Cycle' lamp ⑤ will be illuminated.



Once the 'Cycle' lamp ⑤ has gone out (at the end of the cycle) open the door and remove the basket, then reload the machine and repeat as required

## 5.6 Draining :

During normal operation your appliance will automatically drain away any excess water.

***It is very important the machine is drained down at the end of each working day and the door is left open to allow drying.***

***The machine should never be left full of water if you are switching the machine off.***

**Please contact Classeq Technical for advice and assistance :**

**[Technical support](#)**



**[tech.support@classeq.co.uk](mailto:tech.support@classeq.co.uk)**



## 5.6 Draining (cont.) :

### Gravity drain (typically Eco2).

Switch appliance OFF at fascia ①.

Remove drain plug from wash tank.

Your appliance should now drain under gravity.

Once completed replace the drain plug.

Now isolate mains water and electricity at the wall.

### Drain pump appliances (optional on Eco1, Eco2)

Switch appliance OFF at fascia ①.

Close the door.

Now depress the 'Cycle' switch ④, the 'Cycle' lamp ⑤ will now illuminate to indicate that the drain cycle is in progress..

Once the 'Cycle' lamp ⑤ goes out, switch the appliance Off at the wall, DO NOT switch isolate the appliance while in the drain down cycle.

### Note !

Once empty '**Classeq**' recommends that the mains water and electricity supplies are isolated at the wall and the machine be cleaned as instructed in section 6 of this manual



For hygiene reasons it is recommended that once the appliance has been drained that the door is left open to assist in natural drying of the wash chamber

## 6.0 Cleaning

### 6.1 Prior to cleaning :



Switch off and isolated electrical supply before cleaning the appliance

#### WARNING



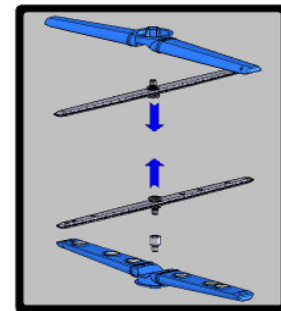
**DO NOT** use cleaning agents that contain CHLORINE, BLEACH or HYPOCHLORITE.

**DO NOT** use STEEL WOOL, WIRE BRUSHES or any other abrasive materials.

**DO NOT** jet wash or hose pipe the appliance down either internally or on the exterior

### 6.2 Internal cleaning :

Remove the wash and rinse arms from the appliance, once removed wash in warm soapy water, ensuring all debris are removed, before reassembling the arm

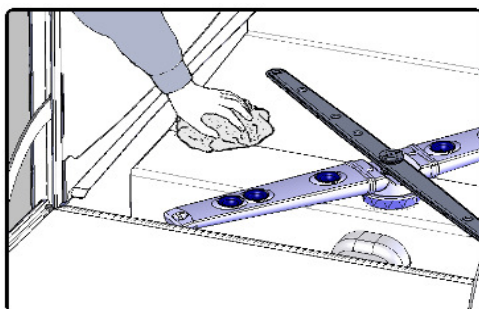


Remove all the filters from within the appliance and again wash in warm soapy water, ensuring all debris are removed.

#### WARNING

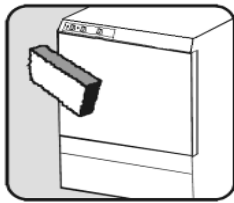


Before cleaning the wash chamber, ensure all sharp items, such as broken glass or other items which could cause injury are removed carefully



Now wipe the inside of the wash chamber ensuring any debris are removed and the chamber is clean, now reassemble all filters and wash arms.

### 6.3 Exterior cleaning :



Wipe the exterior of the appliance with a damp sponge (NOT WET)

Once dry, clean using a STAINLESS STEEL cleaning agent

If you wish to purchase stainless steel cleaning agent, please contact :

[Spares](#)



0844 2245 252



[spares@classeq.co.uk](mailto:spares@classeq.co.uk)

### 7.0 Trouble shooting

Before placing a service call, please check the following:

Check the appliance is connected to the mains water and electricity supply and both are turned on.

Check levels of chemicals within the rinse aid and detergent bottles.

Check the drain / stand pipe is correct for the appliance (refer to section 3.4.2 of this manual).

#### **NOTE**

**In the event of a service call being made under Warranty, and it is found that the fault(s) are due to non-observance of instructions in this manual, the call will be charged at current rates.**

#### 7.1 Appliance does not fill :

Appliance does not start :

Appliance does not rinse :

- Check water supply is turned ON.
- Check water supply hose is not trapped or kinked.
- Check that the appliance is switched ON.
- Drain appliance fully, then try again to fill the machine, drain as per instructions 5.6 of this manual..



## 7.2 Appliance fills slowly :

Check water supply tap is fully open.

Check water supply pressure, should be above 2 bar, if not ask your dealer to install a booster pump to increase water pressure.

Check and clean rinse jets (located on the wash arms within the appliance).

Check water supply hose is not trapped or kinked.

Remove any pressure regulator or reducer from the water supply.

## 7.3 Appliance not heating :

Drain appliance fully, then try again to fill the machine, drain as per instructions 5.6 of this manual.

Check the temperature of the mains water, as variations in water temperature will affect the heating of the appliance.

Check that the wash chamber is full of water.

## 7.4 Appliance not draining :

Check and clean all filters within the appliance.

Check that the stand pipe / drain is not clogged / blocked.

With drain pump appliance, bleed the pump as stated in section 3.4.2. of this manual.

## 7.5 Poor wash results :

Check and replenish chemicals.

Check and clean wash and rinse jets on wash arm assembly.

Clean filters within appliance and check that they are fitted correctly.

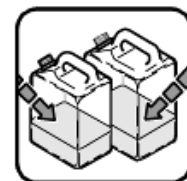
Check water supply is ON and fully open.

Rinse dishes of any food debris before placing into the dishwasher.

Glasses may need to be renovated.

If glasses are 'Blooming' you may need a water softener, call your dealer to advise on size of water softener required.

If a water softener is fitted, replenish the salt within the softener, as per the water softener instructions.





**7.6 Overfilling :**

Drain appliance fully, then try again to fill the machine, drain as per instructions 5.6 of this manual.

Check and clean all filters within the appliance.

Check stand pipe / drain height is configured correctly shown in section 3.4.2. of this manual

Check that the stand pipe / drain is not clogged / blocked.

With drain pump appliance, bleed the pump as stated in section 3.4.2. of this manual.

If the appliance continues to overfill isolate both the mains electricity and water, before call a service technician.

**7.7 Will not switch ON :**

On an 13 amp appliance check and replace the fuse in the plug, ensuring the replacement fuse is of the correct rating.

On other amperage appliances check and reset circuit breaker within the sites fuse board, if the circuit breaker continues to trip call a service technician immediately.

**7.8 Will not switch OFF :**

Isolate at mains electricity before calling for a service technician immediately.

**If you still require service, please contact :**

[Service](#)

 **0844 2245 245**

 **[service@classeq.co.uk](mailto:service@classeq.co.uk)**

or for [Technical support](#)

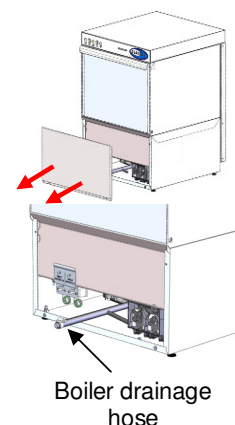
 **[tech.support@classeq.co.uk](mailto:tech.support@classeq.co.uk)**



## 8.0 De-commissioning

If for any reason you require removing or, de-commissioning your appliance, then do so in accordance with local and national regulations. As a minimum **'Classeq'** recommends the following procedure is followed.

- Remove chemical tubes from the chemical bottles, ensuring bottles are then capped to prevent any further spillage; refer to safety statement on chemical bottles prior to and for dealing with any spillage.
- Ensure the appliance is fully drained in accordance with section 5.6 of this manual, once completed remove the waste hose from the drain standpipe; ensure any spilt liquid is dried prior to advancing to the next step.
- Switch off mains electrical supply at wall / isolator / junction box.
- If the appliance is connected via an electrical plug, disconnect this from the socket.
- If the appliance is hardwired into the mains, then this must be disconnected by a qualified electrician in accordance with local and national wiring regulations.
- Once the electrical supply has been disconnected, ensure the equi-potential / earth bonding wire is removed from the stud at the rear of the appliance.
- Turn off the water supply to the machine; and disconnect water supply hose from mains water supply; ensuring any spillage is dried prior to moving onto next step.
- Remove the front lower panel, using an Allen key
- Now locate the 'Boiler drainage hose', as shown, ensure this protrudes from the front of the appliance, and you have a container large enough to hold 8 litres of water.





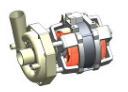









**CAUTION** If the appliance is being drain immediately after use, water draining from the 'Boiler drainage hose' may be up to 80 °c.

Loosen the jubilee / hose clip and remove the stainless steel drain plug, ensuring the water flows into the container mentioned above. Once fully drained replace the stainless steel plug and retighten the jubilee / hose clip.

Replace the front panel, and ensure all cables and hoses are secured to the appliance to prevent tripping hazards. The appliance is now ready to be removed.



**RECYCLING** If you are recycling or disposing of your appliance, please ensure this is done in accordance with local and national regulations.

Description & Part number	Glasswasher range		Dishwasher range	
	Eco 1 Eco 2 Duo 2	Eco 3 Duo 3	Hydro 400 Duo 400	Hydro 700 Hydro 750 Duo 750
 Drain pump DP2	✓	✓	✓	✓
 Wash pump 0.27kW 522.0001	✓		✓	
 Wash pump 0.74kW 522.0002		✓		✓
 Wash element 2.0kW 555.0001	✓	✓	✓	✓
 Rinse element 2.6kW 550.0003	✓		✓	Hydro700 only
 Rinse element 6.0kW 550.0001		✓		Hydro & Duo 750 only
 Adjustable thermostat 542.0002	✓	✓	✓	✓
 Chemical pumps 526.0010	✓	✓	✓	✓
 Air pressure switch 530.0001	✓	✓	✓	✓
 Air pressure switch 530.0004 (Gravity)	✓	✓	✓	✓
 3 pole relay CONT/30	✓	✓	✓	✓
 4 pole contactor CONTACTOR/4		✓		✓

**If you wish to order any of the parts for your Classeq machine please contact our Spares Parts Department.**

[Spares](#)

 0844 2245 252

 0870 224 7153

 [spares@classeq.co.uk](mailto:spares@classeq.co.uk)

**A comprehensive parts manual is available on the Classeq website:**

[www.classeq.co.uk](http://www.classeq.co.uk)



**Classeq**  
Winterhalter House  
Roebuck Way  
Knowlhill  
Milton Keynes  
MK5 8WH



Thank you for buying a quality 'Classeq' product, please complete and post this form without delay

# WARRANTY

Your new appliance is supplied with a full 12 months warranty, protecting you against failure due to workmanship or component failure

The information you supply to 'Classeq' is covered by the DATA PROTECTION ACT. This data will also assist us to speed up the process, if you require a service visit.

From time to time we may wish to contact you regarding any future developments, if you do not wish to be contacted please tick the box .



## YOUR DETAILS

SITE \_\_\_\_\_

ADDRESS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

POST CODE \_\_\_\_\_

TELEPHONE \_\_\_\_\_

## PRODUCT DETAILS

DATE OF PURCHASE / INSTALLATION \_\_\_\_\_

PURCHASED FROM \_\_\_\_\_

CONTACT NAME \_\_\_\_\_

POSITION \_\_\_\_\_



ARE YOU INTERESTED IN EXTENDED WARRANTIES ?

Please tick the box      YES       NO

