



Installation & Operators Manual

The Classeq under counter range



Glasswashers

Eco 1
Eco 2
Eco 3

Duo 2
Duo 3

Dishwasher

Hydro 500
Hydro 700
Hydro 750

Duo 500
Duo 750

Part number 902.0011
Revision C
Effective date January 2010
Language English

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Installation and Operation instructions

For under counter range of commercial glass & dishwashers.

Section	Title	Page(s)
1	Safety instructions	1
2	Your Classeq appliance	2
3	Installation	2 - 5
4	Commissioning	5 - 7
5	Operation	7 - 10
6	Cleaning	11,12
7	Trouble shooting	12 - 14

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

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

EACH DAY ALLOW MACHINE TO HEAT BEFORE FIRST WASH CYCLE

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

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.



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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 regulations.

2.2 Items included within appliance:

- 2 x Baskets
- 1 x Cutlery basket (*Dishwashers only*)
- 1 x Water inlet hose + Dual check valve
- 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 weight kits (*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

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

3.1 The site :

Ensure that there is sufficient space for the installation, servicing and easy access to all mains isolator switches / valves (i.e. electricity and water). Ensure that the surface the appliance is going to be installed onto is adequately stable and capable of supporting the appliance during normal operation, listed below are the approximate machine weights when fully laden 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.

Machine sizes	Machine fully loaded weight
400mm ² basket	90 Kgs
500mm ² basket	135 Kgs



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3.2 Electrical connection :

All electrical connections MUST be carried out by an authorised technician and in accordance with local 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.

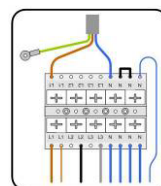
3.2.1 Electrical rating :

Within the 'Classeq' range several of the 500mm² basket appliances can be either down rated or up rated electrically, such a procedure MUST be carried out by a 'Classeq' approved technician.

The down / up rating of the machine is carried out by configuring the terminal block within the appliance to the following

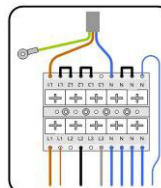
13 Amp – Single phase

- 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).



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3.3 Water connection :

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

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 Classeq appliance is connected to an appropriate water softener

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

FOR ADVICE on water softeners and appropriate chemicals please contact Classeq Sales

3.3.1 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



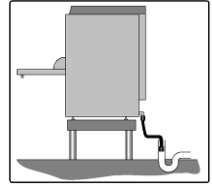
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3.3.2 Drainage systems

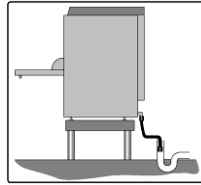
Gravity drain appliances

- 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.

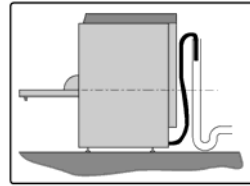


Pump drain appliances

- Waste hose can either flow down from the waste outlet to the drain or go into a standpipe
- Ø40mm (1 ½") standpipe required, must be no lower than the baseline of the appliance.
- Stand pipe must not be higher than the appliance



or



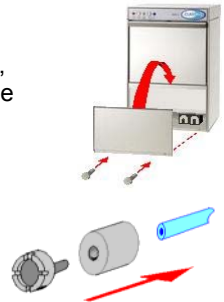
If you have any doubts about the drainage system on the machine, please either contact **Classeq** or your dealer / agent

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 right or left hand slots located at the front of the base of the machine, prior 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.



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4.1.1 Priming of Rinse aid & Detergent :

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

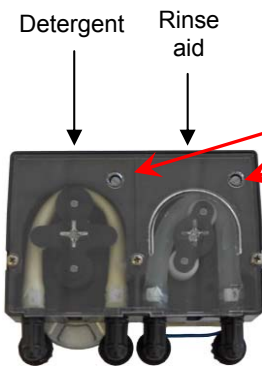
- Ensure the machine is empty of water
- Switch the water supply OFF
- Now switch the machine ON at both the mains supply and at the fascia for 90 seconds only
- Now switch the machine at the OFF at the fascia
- Turn the water supply ON

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 :

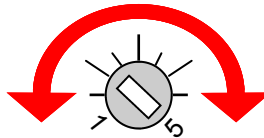
Chemical doses are pre-set, however they can be adjustment to suit the Individual sites requirements, such adjustment is made by turning an adjuster screw on each chemical pump.

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 ↻



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4.2 Rinse & wash tank temperatures :

The water temperatures on 'Classeq' range of machines are adjustable, but have been preset to.

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

4.4 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.

Upon completion of the installation and commissioning of the appliance, this manual MUST be left with the end user.

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.



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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.



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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.



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5.6 Draining (cont.) :

Gravity drain (typically Eco2).

- Switch appliance OFF at fascia ①.
- Remove drain plug from wash tank.
- You 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



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6.0 Cleaning

6.1 Prior to cleaning :



Switch off and isolated electrical supply before cleaning the appliance

WARNING



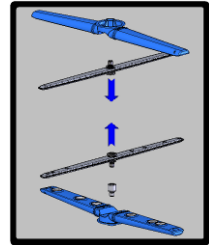
DO NOT use cleaning agents that contain CHLORINE, BLEACH or HYPOCHLORITE.

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

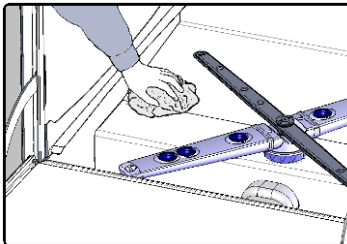


Remove all the filters from within the appliance and again wash in warm soapy water, ensuring all debris are removed.

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.



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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 Classeq

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 3.3.2 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..



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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 :

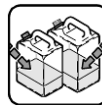
- Drain appliance fully, then try again to fill the machine, drain as per instructions 5.6 of this manual..
- Check the temperature of the mains water, as variations in water temperature will affect the heating of the appliance.
- Check that the wash chamber is full of water.

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 3.3.2. 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.



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- 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 3.3.2. of this manual
- Check that the stand pipe / drain is not clogged / blocked.
- With drain pump appliance, bleed the pump as stated in section 3.3.2. 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 :


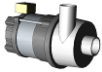




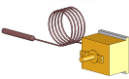





- Isolate at mains electricity before calling for a service technician immediately.



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If you wish to order any parts for your Classeq appliance, please contact our spares department.

Description & Part number	Glasswasher range		Dishwasher range	
	Eco 2 Duo 2	Eco 3 Duo 3	Hydro 500 Duo 500	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		✓		✓



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Affix
Stamp

Classedq

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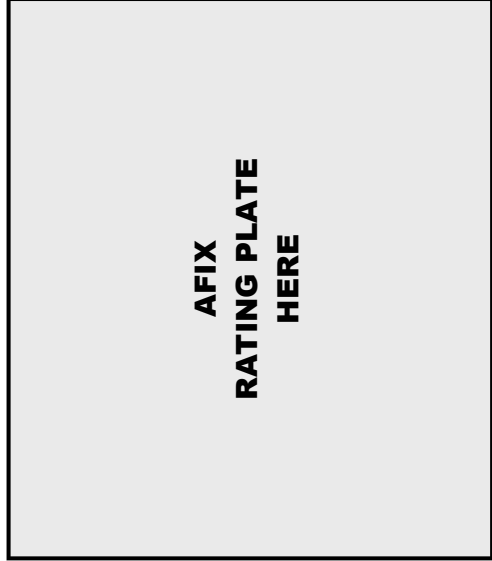
Thank you for buying a quality 'Classeq' product, please complete and post this form without delay

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

