

Installation & Operation Instructions

The Classeq pass through range



Dishwashers

HYDRO 857

HYDRO 957

HYDRO 957AS



www.classeq.net

Accessories and Extras

Detergents and Hygiene Products

Product Application	Product Name	Quantity	Order Code
Glasswashing Products	Super clean glasswashing detergent	2x5l	GW2-5
	G3 glass rejuvenator	1x10kg	G3/10
	Super shine glasswashing rinse aid	2x5l	GWRA5-5
	Glasswasher starter pack glasswasher detergent	2x5l	SPG
	Glasswasher starter pack rinse aid	2x5l	
Dishwashing Products	Super clean dishwashing detergent	2x5l	DW2-5
	Super clean dishwashing detergent	1x20l	DW1-20
	Super shine dishwashing rinse aid	2x5l	DWRA2-5
	Super shine dishwashing rinse aid	1x20l	DWRA1-20
	Dishwashing starter pack detergent	2x5l	SPG
	Dishwashing starter pack rinse aid	2x5l	
	Super descaler	2x5l	DE 2-5
Salt	Table Salt DuoMatik	25kg	SALT T
	Granulated	25kg	SALT

Stands



Product Name	Order Code
Eco 1-2, Hydro 400 stainless steel 457(w) x 497(d) x 410(h)	SS-400
Duo 2, Duo 400 stainless steel 575(w) x 552(d) x 421(h)	SS-400D
Eco 3 Hydro 750 stainless steel 555(w) x 550(d) x 410(h)	SS-500
Duo 3, Duo 750 stainless steel 575(w) x 552(d) x 421(h)	SS-500D
Steel coated stand (Eco 1-2, Duo 2, Hydro 400)	BWS400
Steel coated stand (Eco 3, Duo 3, Hydro 700, Hydro 750, Duo 750)	BWS500

Baskets

Product Name	Order Code
Eco 1 glass	400SBG-P
Eco 2, Duo 2 glass, Hydro cup	500GBP
Eco 3, Duo 3 glass, Hydro 750, Hydro 857-957 cup	700GBP
Alto cup, Hydro 400 plate	500P RP
Hydro 750 plate, Alto plate	700DRP



Basket Inserts

Product Name

Order Code

Wire plate holder Eco 2, Duo2, Hydro

WS8-SK

Hydro, 8 Compartment cutlery

CBP



Basket Inserts



<i>Description</i>		<i>Order code</i>
Eco, Duo and Hydro ranges	8 litre	WS8-SK
	12 litre	WS12-SK
	16 litre	WS16-SK
	20 litre	WS20-SK
	Automatic	WSAUTO
Hydro ranges	20 litre	WS20-SK
	Automatic	WSAUTO
	Automatic hot water	WSHC10
Alto ranges	Automatic – DuoMatik	51-01-206
Viso ranges	Automatic	WSAUTO
	Automatic hot water	WSHC10

Accessories

Description

Order Code

Boostermatic	Pressure Pump (where water pressure is below 45psi/3bar)	99-05-039
Fixing Bracket	For Pump	99-32-002
Mixer Valve	For hot water installations	99-32-001

Service and Maintenance Contracts

Enjoy complete peace of mind with Classeq's range of tailored service contracts. We will be happy to discuss your requirements and provide a proposal which will cater for all your warewashing service needs.

<p>Four Star ★★★★</p>	<p>Break down cover only. Call out and labour included. All replacement parts will be charged.</p>
<p>Five Star ★★★★★</p>	<p>Break down cover with call out, labour and parts included</p>

Dear Customer

Thank you for choosing Classeq, the machine you have selected has been designed to give you lasting service.

Please read these instructions before installing, commissioning and operating this machine.

The information contained herein is provided to avoid accidental risks and/or damage to either yourself or your machine.

Make sure you and any other users understand the controls prior to using your machine.

Please keep these instructions in a safe place for future reference.

If you have any questions, or are not sure about any information contained in this manual please contact either your distributor or Classeq, details are provided inside the back cover.

TABLE OF CONTENTS

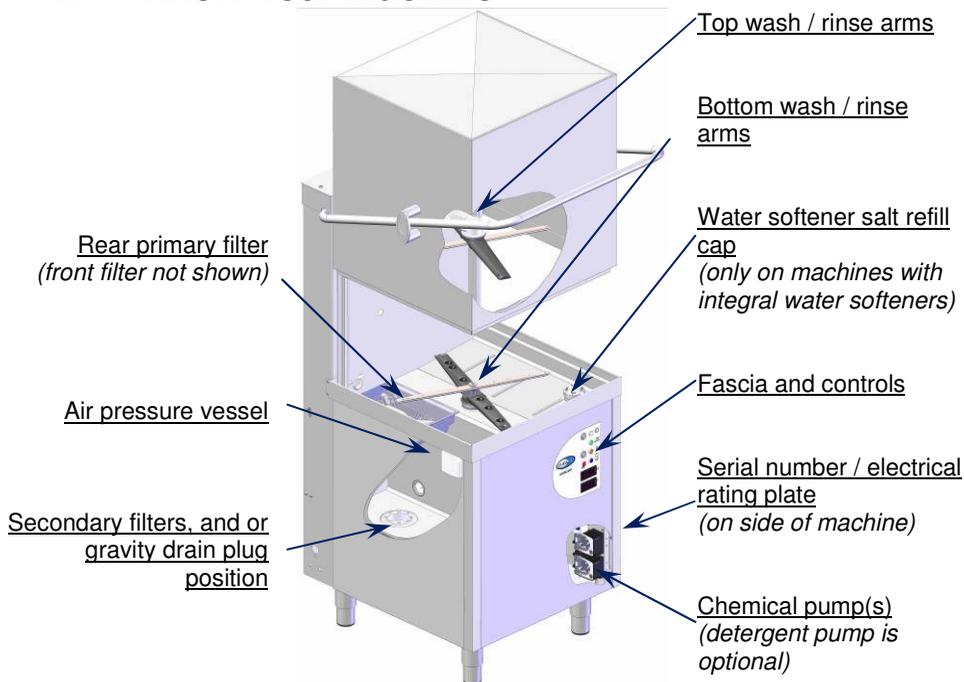
1. KNOW YOUR MACHINE	5
2. WARNING AND SAFETY INFORMATION	8
3. PRE - INSTALLATION	9
4. INSTALLATION	12
5. COMMISSIONING	13
7. SERVICING & MAINTENANCE.....	18
8. TROUBLE SHOOTING	20
9. DECOMMISSIONING	22
10. APPENDIX A	23
11. APPENDIX B	24
12. APPENDIX C	27
13. PARTS AND LABOUR WARRANTY TERMS.....	28

EXPLANATION OF SYMBOLS USED

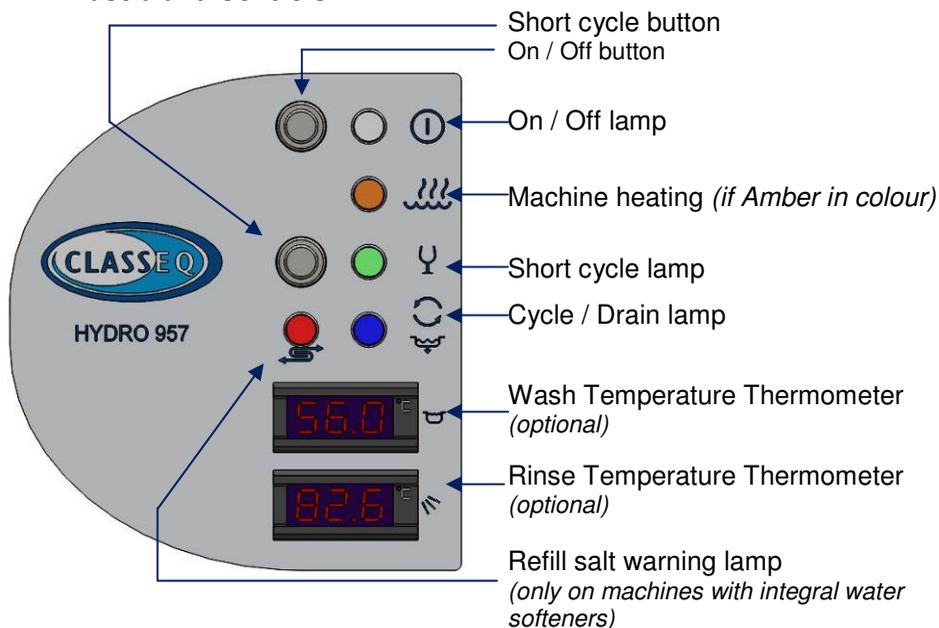
The following symbols have been used in this manual

 Danger	Warning against potential serious or fatal injuries to persons if the described precautionary measures are not taken.	▶	This symbol refers to a chapter with more detailed information
 Warning!	Warning against potential minor injuries to persons or potential material damage if the described precautionary measures are not taken	★	Refer to foot note at bottom of page
 Caution	Warning against defects in or destruction of the product if the described precautionary measures are not taken.		Recycle

1. Know Your Machine

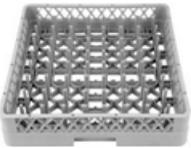
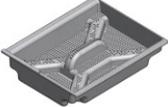


1.1 Fascia and Controls

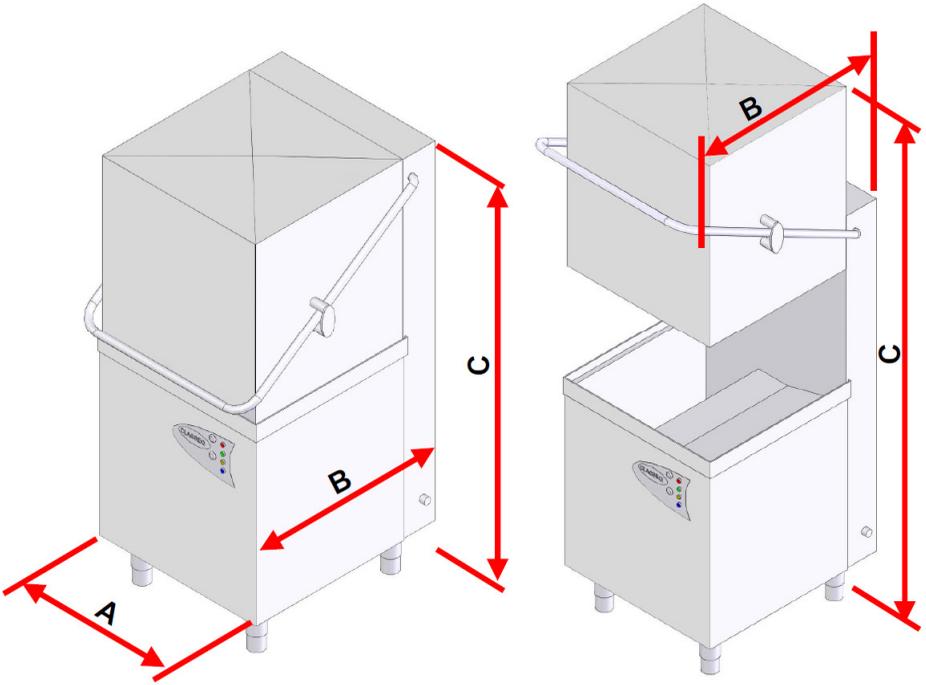


1.2 Contents of Your Machine

Items included within machine

	1 x Installation and Operation Instructions		1 x Good Practice Guide
	1 x Open basket		1 x Secondary filters <i>(only on drain pump machines)</i>
	1 x Sectioned basket		1 x Drain plug <i>(only on gravity drain machines)</i>
	1 x Cutlery basket		2 x Primary filters
	1 x Water inlet hose		2 x Bottle weights <i>(for Rinse Aid and Detergent tubes)</i>

1.3 Machine specification



Dishwashers		HYDRO 857	HYDRO 957	HDYDRO 957AS
Machine (mm)	A = width	Inc. handle		730
		Ex. Handle		630
	B = depth	Inc. handle		950
		Ex. Handle		720
	C = height (min)	Hood closed		1470 - 1520
		Hood open		1890 - 1940
Basket size (mm) (square basket)				500
Load capacity (pint glasses)				30
Load capacity (dishes)				18
Machine fully loaded weight (kg)				176
Rinse water temperature				82°C
Wash water temperature				55°C
Operating noise level				<70 db

2. Warning and safety information

The machine should only be operated on the voltage specified on the rating plate (► 1). The installer and user are responsible for ensuring the installation and operation of this machine are in accordance with local and national regulations.

Each day allow your machine to heat up before the first wash cycle (► 6.4).

Only use commercial grade detergents and rinse-aids within your machine.

DO NOT use electrical extension lead(s) to supply power to your machine.

Damage to the machine caused by lime scale, or poor water quality will NOT be covered by the **Manufacturer's Warranty**.

Children should be supervised to ensure that they do not play with, or operate the machine.

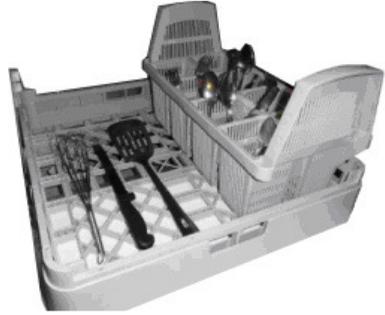
When disconnecting your machine from the mains electrical supply:

- Machines hard wired (*i.e. no plug*), this must be disconnected in accordance with local and national regulations; **Classeq** recommends this is performed by a qualified electrician.



For Dishwashers ONLY

Long cutlery, such as ladles and long knives etc, must be placed horizontally on the open basket (► 1.2), this will avoid possible collision with wash / rinse arms.



Always remove excess food from the dishes before loading.



DO NOT use your machine as a waste disposal unit.

3. Pre - Installation

After unpacking your machine, check it for any possible transport damage. Never install and use a damaged machine. If your machine is damaged contact your retailer immediately.

Make sure the water and electricity connections of your machine are in compliance with these instructions.

Remove all outer packaging and the protective film from your machine before positioning it.

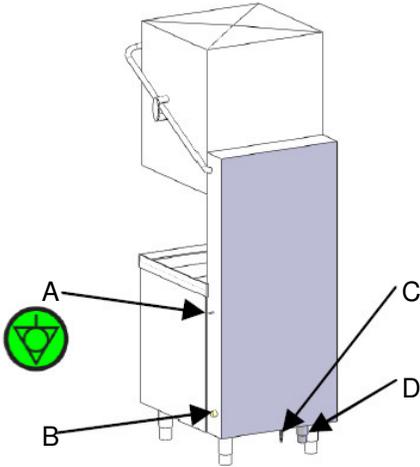
Ensure all packaging materials are disposed of in accordance with local and national regulations.

When positioning the machine, ensure that the water inlet and drain hoses are not kinked or squashed. Care must also be taken to ensure your machine does not rest upon any of its supply hoses / leads.

Once installed use the adjustable feet to ensure your machine is stable, with its weight being distributed equally and does not tilt more than 3° in any direction.



3.1 Machine mains supply requirements:



All mains connections are made at the rear of the machine

A = Mains electrical supply cable

B = Earth bonding / Equi-potential stud



C = Water supply hose connection

D = Drain / waste water hose

3.2 Electrical connection (▶ 3.1):

As a minimum **Classeq** recommends the following standards are maintained:

- All machines are connected via a residual current device (*R.C.D.*) or earth leakage protection device.
- **IEC 60204**
Supply isolator switch must have all pole separation of more than 3mm.

- **IEC 60335**

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

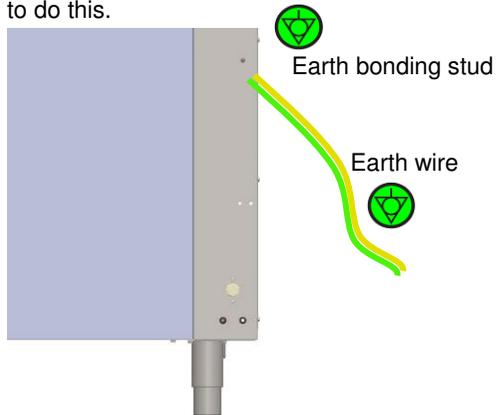
Prior to connecting the machine, ensure that the voltage and the supply fuse complies with the rating plate on the machine (▶ 1).

3.3 Earth bonding / Equi-potential stud:



For safety reasons your machine **MUST** be earth bonded to adjacent metalwork, or may be earthed so that it is at the same potential (*i.e. voltage*).

Please consult your distributor, **Classeq** or a qualified electrician if you are unsure how to do this.



3.4 Mains electrical plug:

Your machine will be supplied without an electrical plug.

3.5 Mains electrical cable

specification:

If the mains electrical supply cable is damaged or has deteriorated, it must be replaced by a cable or cord assembly supplied by **Classeq**, or its service agent, and be to the following minimum specification.

For electrical rating of your machine refer to the rating plate (►1).

Machine rating (Volts / Phase / Amps)		Cable type
220-240V / 1N~/32A		PVC 3G 4.0
380-415V / 3N~/13A		PVC 5G 2.5
220-240V / 3N~/17A		PVC 5G 2.5
380-415V / 3N~/22A		PVC 5G 6.0
Temp. rating	Length of cable	Conforms to
80 °C min.	2.50m	IEC 60335-2-58 & IEC 60227 types 56 & 57

3.6 Changing electrical rating:

The HYDRO 857 can be either down rated or up rated electrically. Such a procedure MUST be carried out by a qualified electrician or service engineer (►11.1). All Versions of HYDRO 957 are 3PH only.

3.7 Water connection (►3.2):

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

IMPORTANT - All supplier warranties are void if lime scale is present within your machine.

Commercial machine wash results will be affected by external conditions such as incoming water temperature, pressure, hardness and choice of chemicals.

3.7.1 Water supply hose:

Your machine comes with a new water supply hose (►1.2), requiring a G $\frac{3}{4}$ " ($\frac{3}{4}$ " BSP) male threaded connection at the mains water supply. This hose is to be connected to the machine and the mains water supply.



Warning!

Old existing, defective or damaged water supply hoses are NOT to be used when installing your machine.

3.7.2 Water supply restrictions:

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 machine will be impaired.

3.8 Drain / waste water hose (►3.1 and 4.4):

Dependant upon the model of machine you have will change how the waste water hose needs to be configured into your sites drainage system (►4.4)

4. Installation

Make sure you have read section 3 of this manual to familiarise yourself with the machine before installation.

4.1 Recommended hand tools

Classeq recommends the following hand tools to aid installation of your machine.

Recommended Hand Tools	
	10mm – Spanner /socket
	Electric screw driver flat (small)
	Spirit level

4.2 Electrical supply connection

Your machine must be connected directly to the mains electrical supply using the mains electrical cable provided.

Prior to connecting your machine, ensure the electrical supply has a suitable and adequate circuit breaker / fuse. For the electrical rating of your machine refer to the rating plate (▶ 1). Contact your distributor, qualified electrician or **Classeq** if you are unsure how to check this.



All mains electrical work must be carried out in accordance with local and national regulations, and by a qualified electrician.

4.3 Water supply hose connection (▶ 3.7.1)

Classeq recommend installing a shut off valve in the mains water supply line near the machine such that it is easily accessible.

Connect the 90° bend end of the water supply hose to your machine (▶ 3.1) and the straight end to your water mains supply.



Ensure the rubber seals within the ends of the hose are in place.

Ensure all connections are water tight before using your machine.

4.4 Drain hose connection

Fit the drain hose of your machine to the waste plumbing without kinking it.

Secure your hose firmly to the waste pipe to avoid it coming off during the machine's operation.

The waste plumbing must only be connected into the foul drains and not the surface water drainage system.

4.4.1 Gravity drain machines

- Drain hose must flow down from the waste outlet to the drain.
- Ø40mm (1 ½") standpipe required, must be lower than the bottom of the machine.
- Ensure the joint between standpipe and drain hose is water tight.

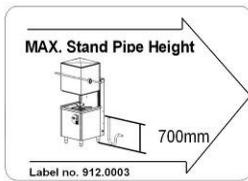


4.4.2 Drain pump machines

- Drain hose can flow down from the waste outlet to the drain (►4.4.1).
- Ø40mm (1 ½”) standpipe required, must be lower than the bottom of the machine.
- Ensure the joint between standpipe and drain hose is water tight.

OR

- Drain hose can be inserted into a standpipe with the maximum height indicated by the sticker on the rear of the machine.



- Ø40mm (1 ½”) standpipe required.

5. Commissioning

5.1 Installing chemical bottle weights

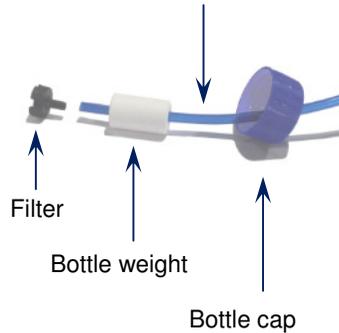
A coil of PVC hose is attached to each chemical pump.

- Blue = rinse aid
- Clear = detergent

The above coils of PVC hose are taped to the exterior of the machine during transit; these are to be un-coiled and routed to the chemical bottles.

After routing these PVC hoses to the chemical bottles, push the supplied bottle weight and filter onto the end of each PVC hose, see diagram below.

PVC hose from machine / chemical pump



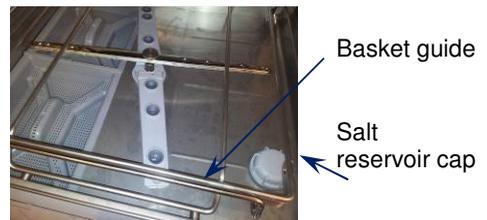
Warning! Only rinse aids and detergents developed for commercial glass and dishwashers are to be used. Rinse aids must be suitable for water temperatures down to 40 °C.

5.2 Integral water softener

(not on all models)

Check the water hardness of your water supply. Once you have this data, isolate the mains electrical supply to the machine, remove the front panel and select the corresponding water hardness setting as shown on the label on the wash tank, now replace the front panel and reconnect your electrical supply.

Fill up the salt reservoir of the integral water softener (►10.2).



Caution Only use granulated salt (max. grain size 5 – 7 mm). Salt tablets are not suitable.

Remove any spilt salt from the wash cabinet. Now replace the salt reservoir cap, ensuring the cap is secure and water tight.



The 'Refill Salt' lamp may stay illuminated for up to 3 complete wash cycles after filling / refilling the salt reservoir with salt.

DO NOT run the machine if there is no salt in the salt reservoir, as this will allow lime scale to build up, also any lime scale will invalidate your warranty

DO NOT add any other chemicals, such as detergent or rinse aid. These will cause damage to the machine.

5.3 Priming of detergent (if present)

This procedure is only required when commissioning or if your detergent bottle has run dry for a number of cycles. It is not required during normal operation:

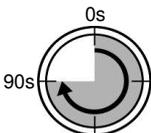
- Ensure clear detergent hose is attached (*external to machine*).



- Ensure your machine is EMPTY of water.
- Turn the mains water supply OFF.



- Turn machine ON at both the mains supply and at the fascia for 90 seconds only.



- Turn machine OFF at the fascia.
- Turn the water supply ON.



- The detergent will now be primed.

5.4 Priming of rinse aid (if present)

This procedure is only required when commissioning or if your rinse aid bottle has run dry for a number of cycles. It is not required during normal operation:

- Ensure blue rinse aid hose is attached (*external to machine*).



- Ensure your machine is FULL of water.
- Remove the lower front panel.



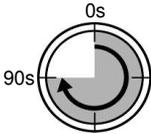
Do not touch any wire connections.

- Depress and hold the rinse aid switch located above the chemical pumps on the right hand side.



Rinse aid switch

- The rinse aid pump will now run then stop and the run again, please note that this is normal.
- To fully prime the rinse aid depress the prime switch for approximately 90 seconds.



- The rinse aid will now be primed and the machine can now be operated (▶6).

5.5 Chemical dosage:

The chemical pumps have been pre-set to a standard dosing rate. The dosing can be adjusted to suit individual site requirements (▶11.2).

5.6 Rinse & wash tank temperatures:

Water temperatures are preset, however **Classeq** recommends these are checked / calibrated to ensure compliance to local and national regulations.

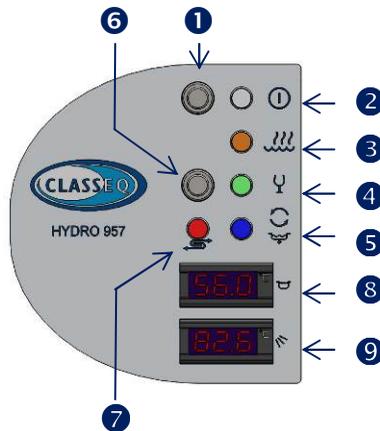
6. Operation

6.1 Machine description:

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

6.2 Controls:

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

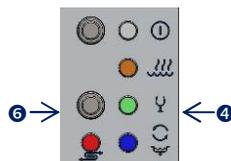


- 1 On / Off button
- 2 On / Off lamp
- 3 Machine heating (if Amber in colour)
- 4 Short cycle lamp
- 5 Cycle / Drain lamp ★
- 6 Short cycle button
- 7 Refill salt lamp (▶10)
- 8 Wash water thermometer (Optional)
- 9 Rinse water thermometer (Optional)

★ - If your machine is fitted with a drain pump, this also acts as a drain down lamp.

6.3 Switch the machine on:

Ensure both the water and electrical supplies are connected and switched on, ensure the hood of your machine is closed.



Now Press the On/Off button ① located on the fascia of the machine. The On/Off lamp ② will now be lit.

The machine will now automatically fill and heat, during this process the hood MUST remain closed.

6.4 Machine ready to operate:

It is IMPORTANT after turning the machine on for the first time each day to allow time for it to heat up (*see table below*) before starting the first wash cycle.

<i>Machine rating (Volts / Phase / Amps)</i>	<i>Minimum initial heat up time</i>
220-240V / 1N~/32A	45 min
220-240V / 3N~/13A	45 min
220-245V / 3N~/17A	40 min
380-415V / 3N~/22A	40 min

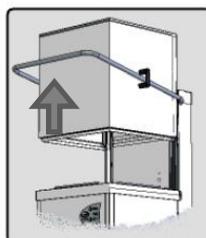
These times may vary depending on your incoming water temperature.

Your machine is designed to only rinse if the rinse water has achieved the correct temperature. If the rinse water is too cold the machine will continue to wash until this temperature is achieved.

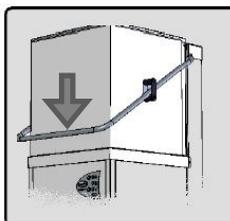
6.5 Starting a cycle:

Always remove excess food / debris from any dishes / glasses to be washed.

The machine has two different cycle times to choose. If the Short Cycle light ④ is not illuminated, one cycle will take 3 minutes; if it is illuminated a cycle will last for 1 ½ minutes. To change between the settings press the Short Cycle button ⑥.

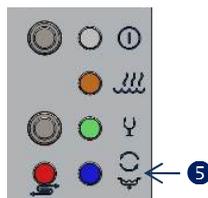


To start a cycle, lift the hood; load the first basket, ensuring that bottom and top arms rotate freely.



Close the hood and the cycle will start once the machine has achieved its correct temperatures. During the cycle the cycle lamp ⑤ will be lit.

Do NOT open the hood during a cycle.



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

Keep hood closed when not in use.

6.6 Draining:

During normal operation your machine 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 hood is left open to allow drying.

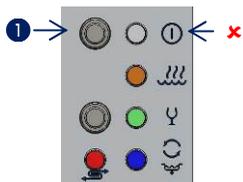


Caution

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

6.6.1 Gravity drain machine

- Turn machine OFF at on/off button ①.



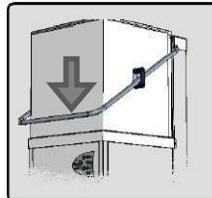
- Turn OFF electrical supply at the wall.
- Remove the primary filters and the drain plug from the wash tank.



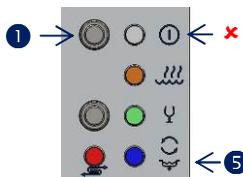
- The machine should now drain under gravity.
- Once drained replace the plug.
- Now turn off the mains water.

6.6.2 Drain pump machine

- Turn machine OFF at on/off button ①.
- Open and close the hood.



- The cycle lamp ⑤ will be lit indicating the drain cycle is in progress.



- Once the cycle lamp ⑤ has gone out, turn off the mains water and electricity at the wall.



Caution

DO NOT turn off electrical supply to the machine while in the drain down cycle.

Note!

Once empty **Classeq** recommends the mains water and electricity supplies are turned off and the machine is cleaned (►7).

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

7. Servicing & Maintenance

DO NOT spray the exterior or interior of the machine and the surrounding area (*panels, base*) using a water hose, steam-jet air ejector or high-pressure cleaner.

Ensure the base of the machine is never submerged or standing in water when operating the machine.

7.1 Prior to cleaning:

Ensure the machine has first been drained down (▶ 6.6).

Turn off the mains electrical supply before cleaning the machine.

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

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

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

Daily internal cleaning:

The machine does not have a self-cleaning program; it is recommended the machine is cleaned daily to ensure the wash action of the cycle is maintained.

If the interior of the machine is dirty: Clean the interior with a sponge and a brush.

Clean any build-up from inside the air pressure vessel (▶ 1).



Open the hood.



Remove and clean basket ramp.



Remove upper rinse and wash arms.



Remove the lower rinse and wash arms.



Clean the wash and rims arms.



Remove the primary filters



Remove the drain plug (*gravity drain machines*)



Remove and clean the secondary filter, located in bottom of wash cabinet. (*drain pump machines*)



Clean the filters and drain plug.



Re-mount all filters and drain plug (where applicable).



Re-mount all the rinse and wash arms.

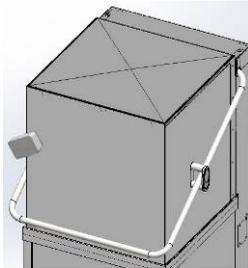


Re-mount the basket ramp.

7.2 Exterior cleaning:

Wipe the exterior of the machine with a damp (*NOT WET*) sponge.

Once dry, clean using a **STAINLESS STEEL** cleaning agent.



7.3 Lime scale:

For best results ensure your machine is operated with soft water.

If your machine has an integral water softener, ensure when the 'Refill Salt' or  indicator lamp  is lit, the salt reservoir is topped up with granulated salt ([▶ 10](#)).

If your machine is connected to an external softener, ensure this is routinely 'regenerated' as per the instruction of the water softener.

If your machine is operated with hard water without the relevant water treatment, the internal working and all water lines can become scaled and your results will deteriorate and the machine will not perform.

The visual signs of lime scale being:

- White marks may appear on glasses, dishes and cutlery.



- Dishes may appear dirty even after a wash.
- Build-up of lime scale within the wash cabinet of your machine



Your local water board should be able to tell you if the water in your area is hard or soft. As a guide refer to the map in Appendix C ([▶ 12](#)).

If you find a build-up of white powder like material in the wash tank of your machine, you may need to de-scale your machine ([▶ 11.3](#)).

Damage to the machined caused by lime scale will NOT be covered by the **Manufacturer's Warranty**.

8. Trouble Shooting

Before placing a service call, please check the following:

- Machine is connected to the mains water and electricity supply and both are turned on.
- The level of chemicals within the rinse aid and detergent bottles and the bottle weights and tubes are correctly positioned.
- The drain / stand pipe is correct for the machine (▶4.4).

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.

8.1 Machine does not fill:

- Check water supply is turned ON.
- Check water supply hose is not trapped or kinked.
- Check that the machine is switched ON.
- Check that the hood is closed and the hood magnet is in place.

8.2 Cycle does not start:

- Check wash tank is full.
- Ensure compliance with recommended waiting times before starting a cycle (▶6.4).

8.3 Machine does not rinse:

- Check water supply is turned ON.
- Check water supply hose is not trapped or kinked.
- Check that the machine is switched ON.

- Drain machine fully as per instructions (▶6.6), then try again to fill the machine.

8.4 Machine fills slowly:

- Check water supply tap is fully open.
- Check water supply pressure (▶3.7.2) and remove any pressure regulator or reducer.
- Check and clean rinse jets (*located on the rinse arms within the machine*).
- Check water supply hose is not trapped or kinked.

8.5 Machine not heating:

- Drain machine fully (▶6.6), then try again to fill the machine.
- Check the temperature of the mains water (▶3.7.2).
- Ensure enough time has been allowed for machine to reach correct temperatures (▶6.4).
- Check that the machine is full of water.

8.6 Machine not draining:

- Check and clean all filters within the machine.
- Check that the stand pipe / drain is not clogged / blocked / kinked.
- With a drain pump machine, bleed the pump by blowing into the drain hose.

8.7 Poor wash results:

- Check and replenish chemicals.
- Check and clean wash and rinse jets on the wash and rinse arm assemblies.
- Clean filters within machine 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 showing signs of deterioration you may need a water softener, call your dealer to advice on size of water softener required.
- If a water softener is fitted, replenish the salt within the softener, as per the manufacturer's instructions.

8.8 Overfilling:

- Drain machine fully (▶6.6), then try again to fill the machine.
- Check and clean all filters within the machine.
- Check stand pipe / drain height is configured correctly shown in (▶4.4).
- Check that the stand pipe / drain is not clogged / blocked / kinked.
- With a drain pump machine, bleed the pump by blowing into the drain hose.
- If the machine continues to overfill, turn off the electricity and water supplies to the machine, before calling a service technician.

8.9 Wash water foaming:

- Check chemicals are manufactured for use in commercial glass- and dish-washers.
- Check wash water is up to temperature.
- Drain, refill and allow to reheat.

8.10 Will not turn ON:

- Check and reset circuit breaker within the sites fuse board, if the circuit breaker continues to trip call a service technician immediately.

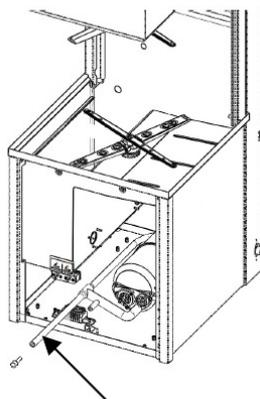
8.11 Will not turn OFF:

- Turn off the mains electrical supply at the wall / isolator or junction box before calling for a service technician immediately.

9. Decommissioning

If for any reason you require to remove or, decommission your machine, 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 the bottles are then capped to prevent any further spillage; refer to all safety statements on chemical bottles prior to this and for dealing with any spillage.
- Ensure the machine is fully drained (▶ 6.6), once completed remove the waste hose from the drain standpipe; ensure any spilt liquid is dried prior to advancing to the next step.
- Turn off the mains electrical supply at wall / isolator / junction box.
- The machine must be disconnected from the mains by a **qualified electrician** in accordance with local and national regulation.
- Once the electrical supply has been disconnected, ensure the earth bonding / equi-potential wire is removed from the stud at the side of the machine.
- Turn off the water supply to the machine and disconnect the water supply hose from mains water supply, ensuring any spillage is dried prior to moving onto next step.
- Remove the front lower panel using a 10mm Spanner.



Boiler drainage hose

- Now locate the '*Boiler drainage hose*' as shown. Ensure this protrudes from the front of the machine and you have a container large enough to hold 8 litres of water.



Caution

If the machine is being drained immediately after use, water draining from the '*Boiler drainage hose*' may reach up to **82°C**.

- Loosen the jubilee 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 clip.
- Replace the front panel, and ensure all cables and hoses are secured to the machine to prevent tripping hazards. The machine is now ready to be removed.



RECYCLING

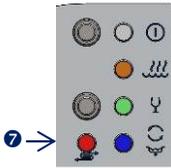
If you are recycling or disposing of your machine, please ensure this is done in accordance with local and national regulations.

10. Appendix A

10.1 Integral Water Softener:

The machine will fill and heat as described in this manual (▶6).

On the front fascia of the machine there is a 'Refill Salt' or  indicator light ⑦, this will only illuminate when the salt reservoir needs refilling with granulated salt (*not table salt*).



DO NOT run the machine if there is no salt in the salt reservoir. This can cause lime scale to build up within the machine and as a result may invalidate your warranty.

DO NOT add any other chemicals in the salt reservoir, such as detergent or rinse aid. These will cause damage to the machine.



Caution

Only use granulated salt
(*max. grain size 5 – 7 mm*). Salt tablets are not suitable.

10.2 Refilling the Salt Reservoir

The 'Salt Reservoir' is located within the wash tank and must be filled with regenerating salt when the 'Refill Salt' or  light ⑦ illuminates on the fascia panel. You can do this while the machine is *On*, you do not have to switch *Off* the machine or drain the water.

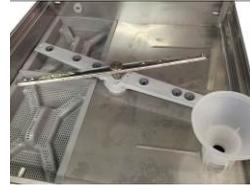


Basket guide

← Salt reservoir cap

The 'Refill Salt' or  light ⑦ will go out at the latest after the third cycle.

- Remove the basket ramp (▶7.1).
- Remove the cap from the 'Salt Reservoir'
- Fill the salt reservoir up to the rim with fresh water (*only necessary the first time the machine is used*).



- Place the funnel into the charging hole and pour in **1.5kg** of granulated salt.

- Remove the funnel and clean the filling area from salt residues. Replace the cap back on the salt reservoir and screw on tightly without tilting it.
- Then perform a wash cycle immediately to flush away any excess salt residue, otherwise there is a risk of **rust forming** on the filling area.

For replacement granulated salt contact **Classeq** or your dealer.

11. Appendix B



Danger

Only Qualified Electricians or **Classeq** Engineers are to carry out the changes to electrical rating due to high **risk of death or serious injury.**

11.1 Changing electrical rating:



Caution

Changing the electrical rating of the machine will have an effect on the performance of your machine.

Down / up rating of your machine is carried out by re-configuring the terminal block within the machine to the following:

The terminal block is located inside the bottom of the machine. Access is gained by removing the two hexagonal head 10mm screws found on the bottom side of the machine, then by sliding the front panel downwards and removing it.



11.1.1 Changing rating to 220-240V / 1N~ / 32A:

Only HYDRO 857 machines can be converted to single phase.

- Place links between L1, L2 and L3
- Ensure link remains between neutrals (N)
- Mains electrical cable required (▶ 3.4)



11.1.2 Changing rating to 220-240V / 3N~:

- Remove links between L1, L2 and L3
- Ensure link remains between neutrals (N)
- Mains electrical cable required (▶ 3.4)



11.2 Chemical dosage adjustments:

If installed in your machine, rinse aid and detergent dosing pumps will be located behind the lower panel on the right hand side. A small screw driver is necessary to adjust the pump.



Danger

Turn off all electrical supplies to your machine before removing any exterior panels

To access the pumps remove the front panel, a 10mm Spanner is required for this operation.



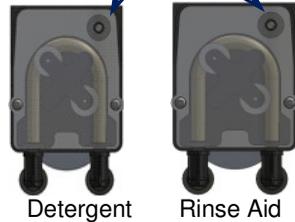
Chemical Pumps

Adjustments are made by rotating the adjuster screw in the front of the pumps

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



Adjuster



Chemical pumps only operate while your machine is filling or trying to fill with water.

The pumps also pulse on and off, unless set to their maximum or minimum settings.

Ensure all exterior panels are in place and secure before turning the electrical power back on to the machine.

Classeq recommends that after any adjustments, your machine is run through at least 10 cycles before making any further adjustments.

11.3 De-scaling:

You can de-scale the wash tank of your machine yourself with the help of the following notes; to de-scale the rinse boiler you will need to contact your service engineer or **Classeq**:

- Drain the machine (▶ 6.6).
- Remove the PVC hoses from the chemical bottles, or set the chemical pumps to the minimum setting (▶ 5.3).
- Fill the machine (▶ 6).
- Wait till the machine is ready for operation.

- Re-connect and set the rinse aid and detergent (▶ 5.3).



When handling chemicals, observe all safety notes and dosing recommendations printed on their packaging. Wear protective clothing, protective gloves and protective goggles when handling chemicals.

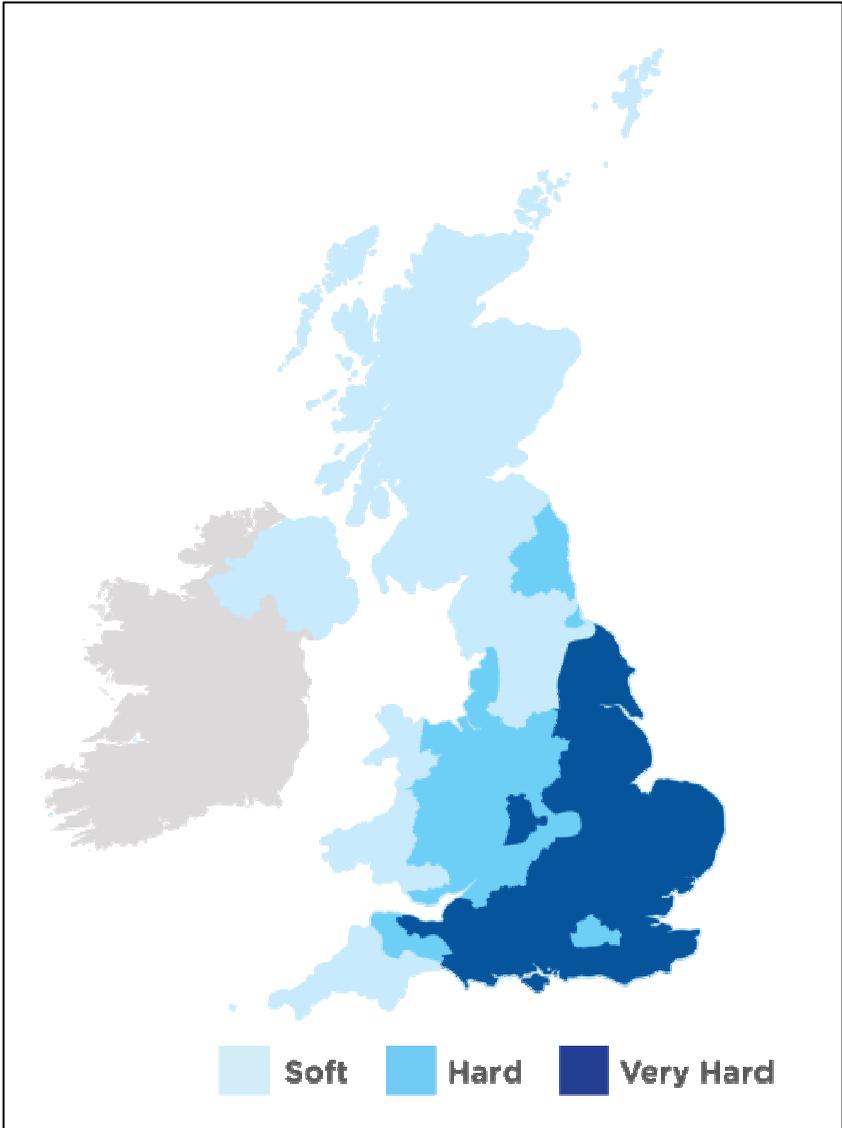
- Use the recommended dose of de-scale, as stated on the packaging.
- Run 5 or 6 complete wash cycles (▶ 6.5).
- Drain the machine (▶ 6.6).



De-scale must not remain in the machine for more than 2 hours.

- Fill the machine (▶ 6.3).
- Run 2 or 3 complete wash cycles to remove the remaining de scale from the washing system.
- Drain the machine again (▶ 6.6).

12. Appendix C



For more detailed information regarding your water hardness, please contact your water supplier.

Map correct at time of going to print

13. Parts and Labour Warranty Terms

Classeq Glass & Dishwashing Systems Ltd.

Parts and Labour Warranty Terms

The user is entitled to free replacement and fitting of any part found to be faulty in material or workmanship, including any parts rendered inoperative by the effect of a faulty component, for a period of one year, or as specified by the vendor at the time of purchase.

Exceptions

All faults or conditions caused by Operator misuse, including (but not exclusively):

- Incorrect Installation.
- No fault found.
- Problems with electricity supply or plumbing e.g. water and waste.
- Failure to follow instructions in the User Handbook.
- Use of incompatible chemicals or chemical set at incorrect concentration.
- Drain pump or drain system blocked or damaged by foreign bodies.
- Wash pumps damaged due to foreign bodies entering the wash system.
- Use of un-softened (hard) water. The use of a faulty water softener or the failure to properly regenerate a water softener.
- Use of excessive force on the machine, e.g. switches etc.

- The cost of replacing any item found to be lost or missing.
- Use of non-compatible cleaning materials.
- Incorrect assembly after cleaning.
- Damage to machine caused by any 3rd party.

13.1 Useful Contact Details / Notes



www.classeq.net

To help when contacting please quote the serial number and model of machine

Warranty:

To register your machine visit:
www.classeq.co.uk.

*Document no. - 902.0005
Revision - D (Oct 2013)
Language - English*