

CP500

CP500-WS

CP500-AS

CP500-AS-WS

CP500 [SR]

CP500-WS [SR]

CP500-AS [SR]

CP500-AS-WS [SR]

Pass-through Warewasher

User Manual



CAUTION: Read these instructions before operating the warewasher

Original Instructions

CLASSEQ

UK

Dear Customer

Thank you for choosing our warewasher. We have designed the machine to give you lasting service and great results.

Please read this manual before you install, commission and operate the machine.

Make sure all users understand the controls before they use the machine.

Please keep the manual in a safe place for future reference.

If you have any questions or are not sure about anything in the manual, please contact your distributor or us. Our contact details are low down on one side of the machine.

Please record below the machine's model and serial number. You will need them if you need to contact us for support or to make a claim under the warranty. The numbers are on the rating plate, low down on one side of the machine.

Model number

Serial number

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1. Safety

1.1 Symbols we use in the manual



DANGER!

Warning against potential serious or fatal injuries to people if the described precautions are not taken.



WARNING

Warning against potential minor injuries to people or potential material damage if the described precautions are not taken.



CAUTION

Warning against damage to or destruction of the machine if the described precautions are not taken.



NOTE

Highlighting key information or references.



RECYCLING

Recycling instructions.



Other

This symbol refers you to a section with more detailed information.



The machine is fitted with an external equipotential conductor to allow supplementary equipotential bonding to adjacent metalwork so that it is the same potential (ie, Voltage). This can be used to satisfy local and national regulations where required.

1.2 Dangers



Means for disconnection: A means for disconnection that has all-poles separation of more than 3mm must be included in the fixed wiring in line with wiring rules.



Damaged supply cable: If a mains supply cable is damaged, you must replace it with a cable supplied by us, our service agents or similar qualified people.



Skilled person (Electrically): Do not open any machine covers or machine parts if it requires tools. There is danger of shock. All mains electrical work must be carried out by a skilled person (Electrically) in line with local and national regulations (►4.8).



Earthed or bonded: The machine is fitted with an external equipotential conductor to allow supplementary equipotential bonding to adjacent metalwork so that it is the same potential (ie, Voltage). This can be used to satisfy local and national regulations where required. (►4.8.5).



Standing in water: Ensure the base of the machine is never submerged or standing in water when operating (►7).



Disconnect when cleaning or servicing: The warewasher **must** be disconnected from its power source during cleaning and servicing or when replacing parts (►7).

1.3 Warnings



Voltage: The machine should only be operated at or within the voltage specified on the rating plate.



Keep to the designation: If you use the machine outside its designation, you invalidate your warranty and make the machine unsafe (►2).



Installer and user responsibility: The installer and user are responsible for ensuring that the machine is used and operated in line with this manual and local and national regulations (►4).



Use the supplied hose: Use only the hose we have supplied with the machine to connect it to the water supply. **Never use** old, existing, faulty or damaged hoses (►4.9).



Inlet pressures: The maximum inlet water pressure is 1 MPa. The minimum inlet water pressure is 200 kPa (►4.9).



Height of wastewater outlet: the wastewater outlet **must not exceed** the maximum drain height (►4.10).



Safe handling of chemicals: Wear the correct personal protective equipment, eg, gloves and goggles, when handling chemicals. Observe all safety notes and dosing recommendations on the packaging (►4.11) (►6.13) (►10.1).



Children: Supervise children to ensure they do not play with or operate the machine (►6).



Possible risk of injury– Arrange sharp, pointed utensils so that they do not cause injury when unloading (►6.6).



Possible risk of scalding from hot wash water– The wash water is at a temperature of approx. 62°C.–Do not open the hood while the machine is washing. There is a risk of the hot wash water spilling out (►6.8).



Possible risk of injury– Do not place any objects on the hood (►6.8).



Heat of wares: Understand that wares may be hot when removed from the machine (►6.8).



Remove sharp things before cleaning: Before cleaning the wash chamber, ensure you have carefully removed all sharp items, such as broken glass or other things that could cause injury (►7).



Avoid chlorine etc: Do not use cleaning agents that contain **chlorine, bleach or hypochlorite** (►7).



Service settings can only be accessed by a qualified electrician or service technician. **Do not** access them or the machine is likely to develop a fault.

Contact Classeq Technical for more information (►8.3.8).



Heat of drain water: If you drain the machine immediately after use, the water from the boiler drainage hose may be hotter than **95°C** (►10.4).

1.4 Cautions



Hard water areas: In hard water areas (>3°dH), **do not run** the machine without using either an internal or external water softener as this could damage the machine. Failure to observe this warning will invalidate the warranty.

Machines with 'WS' in the model type are fitted with an internal water softener.



Use the machine only for its intended purpose:

The purpose of the machine is to wash dishes, plates, glassware, cutlery and similar articles only. Do not use it for anything else.



Use authorised parts: Only use our authorised spare parts if the machine breaks down.



Lifting Steam unit into position: For safety, this activity requires **2 people**. (►4.3)



Fitting steam unit: Risk of trapping hands and fingers. **Do not** lift from the bottom. Ensure your hands are clear from the connection point before lowering the steam unit. (►4.3)



Limescale etc: Damage to the machine by limescale or poor water quality is **not covered** by the Manufacturer's Warranty (►4.9) (►7.5).



Use only commercial-grade supplies: Only use commercial-grade detergents and rinse aids in the machine (►4.11).



Salt: Do not run the machine without salt in the salt reservoir as this will allow limescale to build up. Limescale deposits in the machine will invalidate the warranty (►4.12) (►7.4).



Only use granulated salt (*max. grain size 7mm*). Salt tablets are not suitable (►4.12).



Use only salt in the reservoir: Do not add any chemicals, such as detergent or rinse aid, to the salt reservoir. These will damage the machine (►4.12).



Secure the salt reservoir cap: Make sure the salt reservoir cap is properly secured. If it is not secure, water or chemicals (or both) can leak in or out of the unit, damaging the machine (►4.12).



Possible failure of the washing programme due to heavy dirt ingress. Pre-rinse all dishes and pans with **cold** water to remove food residues (►6.6.2).



Remove debris: Always remove excess food/debris from any dishes/glasses to be washed. **Do not use** the machine as a waste disposal unit (►6.8).



Daily drain down: It is important that you drain down the machine at the end of each working day (►6.9).



De-scale chemical time limit: De-scale chemical must not remain in the machine for more than 2 hours (►6.13).



Rusty objects: Ensure that there are no rusty foreign objects in the machine which can cause even "rust-free stainless steel" material to start rusting. Rust particles can come from non-rust-free cleaners, damaged wire racks or non-rust-protected water lines (►7).



No abrasives: Do not use steel wool, wire brushes or other abrasive materials (►7).



Do not use water jets etc: Do not spray the exterior or interior of the machine and the surrounding area (*panels, base*) using a water jet, steam cleaner or high-pressure cleaner (►7).

2. Get to know your warewasher

2.1 Model numbers

Model	Description
CP500	Standard
CP500 SR	with steam recovery unit
CP500 WS	with inbuilt water softener unit
CP500 WS SR	with inbuilt water softener unit with steam recovery unit
CP500 AS	with twin rinse element
CP500 AS WS	with twin rinse element with inbuilt water softener unit
CP500 AS WS SR	with twin rinse element with inbuilt water softener unit with steam recovery unit
All models	WRAS approved air break
	Rinse booster pump
	Drain pump
	Rinse aid pump
Operating noise level <70dB(A)	

2.2 Layout of the warewasher

Before installing the machine, you should get to know the parts shown in this section.

The warewasher is an electrically operated machine for washing plates, dishes, glassware, cutlery and similar articles.

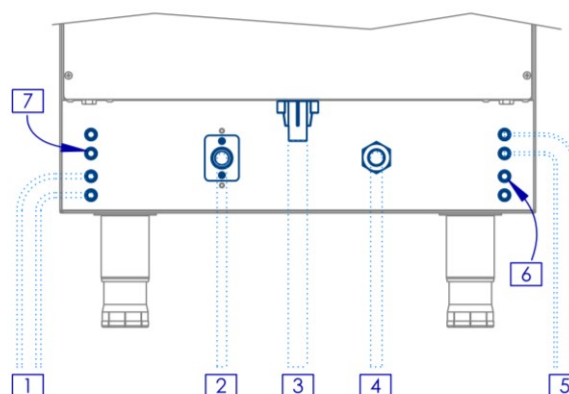
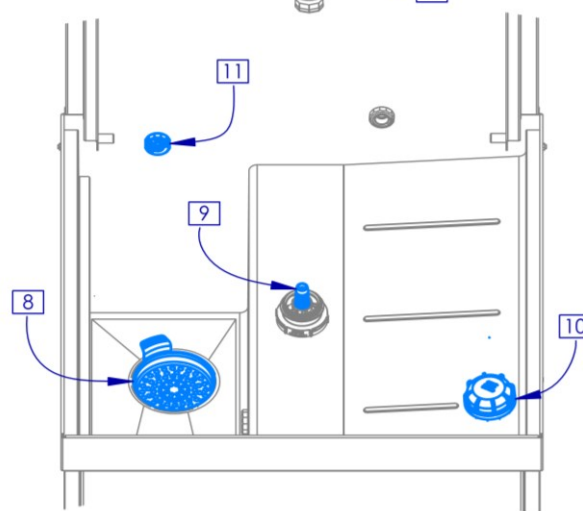
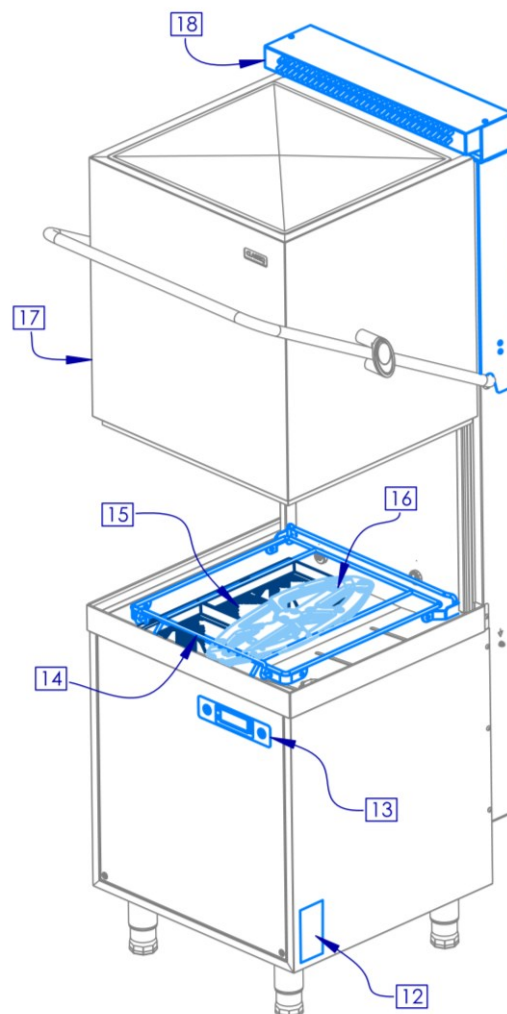
The machine is not intended for household use. It is for use in such places as restaurants, canteens, hospitals, schools, colleges, offices and other commercial enterprises.

Item	Description	Item	Description
1	Chemical tubes	10	Salt reservoir cap (WS models only)
2	Inlet water	11	Anti-syphon device
3	Waste water	12	Rating label
4	Mains cable	13	Control panel
5	Chemical lance cable (optional)	14	Basket ramp
6	Spare	15	Primary filters
7	Spare	16	Wash and rinse arm
8	Secondary filter	17	Hood
9	Wash arm bearing	18	Steam unit (SR models only)



NOTE

Images are for reference only. Actual parts may differ.



2.3 Intended use of the warewasher

The intended use of the machine is to wash plates, dishes, glassware, cutlery and similar articles in a commercial environment.

2.4 Designation of the warewasher

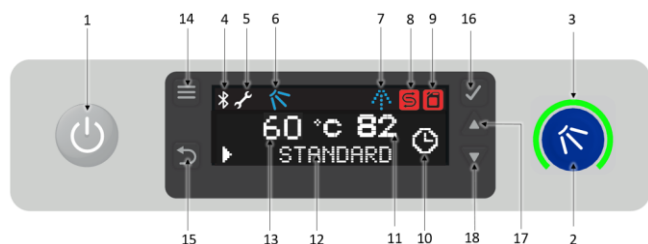
2.4.1 Rating label

Warewasher Classeq Ltd, Classeq House, Beacon Way Beacon Business Park, Stafford, ST18 0DG		CLASSEQ	
Model CP500-AS-WS		Material 953V1101	
Supply 380-415V / 3N~ / 50Hz		IP Rating IPX4	
Pmax 12.58 kW	Imax 22A	  Made in UK	
Serial Number 45678910		YYWW 2520	

2.4.2 Model types

SR	XX	Steam recovery option: SR Steam recovery
WS	XX	Water softener option: WS Water softener
AS	XX	Power option: AS Twin rinse element
500	XX	Basket size: 500 500mm x 500mm
CP	XX	Machine function CP Pass-through warewasher

2.5 Warewasher controls



Item	Description
1	On/off button
2	Cycle button
3	LED indicator (Note 1)
4	Bluetooth access
5	Service mode Indicator
6	Wash indicator
7	Rinse indicator
8	Refill salt indicator (Note 2)

9	Low chemical indicator (Note 3)
10	Program selected
11	Rinse water temperature
12	Stage Information
13	Wash water temperature
14	Menu button
15	Back button
16	Select button
17/18	Up button and down button



NOTE

• LED indicator:



Flashing AMBER – the machine is not ready (the wash tank is not full or the rinse tank is not full or the wash tank is still heating or the rinse tank is still heating).



GREEN – the machine is ready or in standby (the wash tank is full or the rinse tank is full).

Note that tank-full interlocks always apply. (In other words, the wash tank and rinse tank must be full of water before heating.)



BLUE – the machine is in wash cycle.



Flashing BLUE – in drain cycle.



RED – In service mode.



RED – If not in service mode, this indicates an error warning.

Contact: Classeq's service or technical support.

- Only on warewashers with fitted water softener units.
- Function available only on warewashers fitted with external chemical lances.



WARNING

Keep to the designation: If you use the machine outside its designation, you invalidate your warranty and make the machine unsafe.

3. Unpacking

Unpack the warewasher and check it for transport damage. Never install or use a damaged machine. If it is damaged, contact your retailer immediately.

Make sure the water and electricity connections comply with the specifications in this manual.

Remove all outer packaging and the protective film from the machine before you position it.

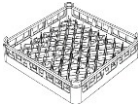
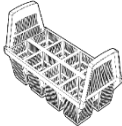
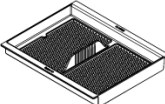
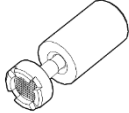
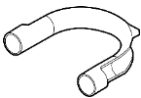
Remove any accessories shipped inside the machine. Unpack them carefully.

Ensure you dispose of all packaging materials in line with local and national regulations.

3.1 Accessories we supply

We supply the following accessories.

EN

	Open basket x1		Plate basket x1
	Cutlery basket x1		Primary filter x2
	Secondary filter x1		Bottle weight x2
	Adjustable foot x4		Foot fixings x16
	Water inlet hose x1		Waste hose hook x1
	Water softener funnel x1 (Note 2)		Drain hose x1
	Bag of salt x1 (Note 2)		Document pack



NOTE

1. Images are for reference only. The actual supplied parts may differ.
2. Warewashers with a water softener unit only.

4. Installing



WARNING

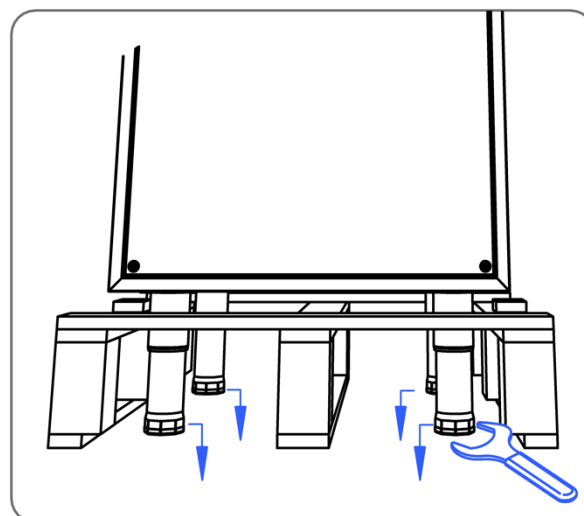
The installer and user are responsible for ensuring that the installation and operation of this machine are in line with this manual and with local and national regulations.

4.1 Hand tools we recommend

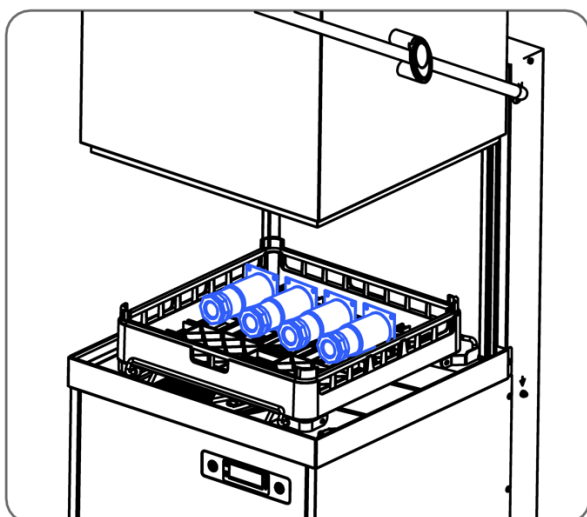
You need these hand tools during installation:

- 8mm spanner
- 10mm spanner
- 56mm spanner (supplied with machine)
- PZ2 screwdriver
- Spirit level
- Multimeter or voltmeter
- Insulated electric screwdriver
- Drill with 8mm socket.

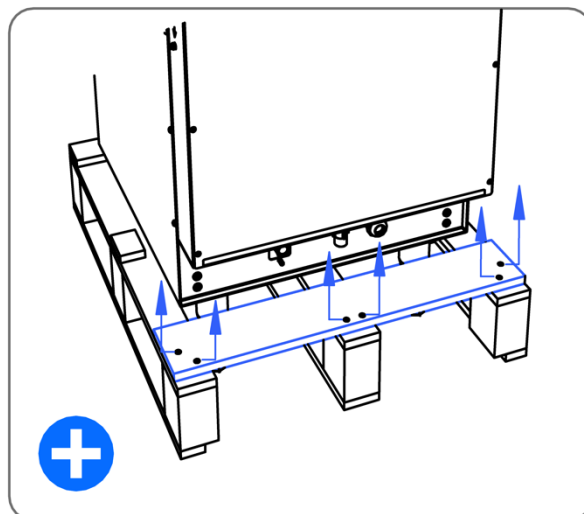
4.2 How to fit the adjustable feet



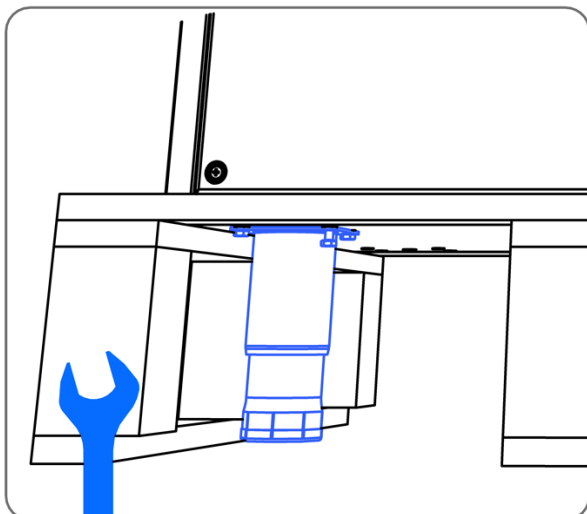
- Use the 56mm spanner (supplied) to adjust the height of the feet, which raises the machine from the pallet.



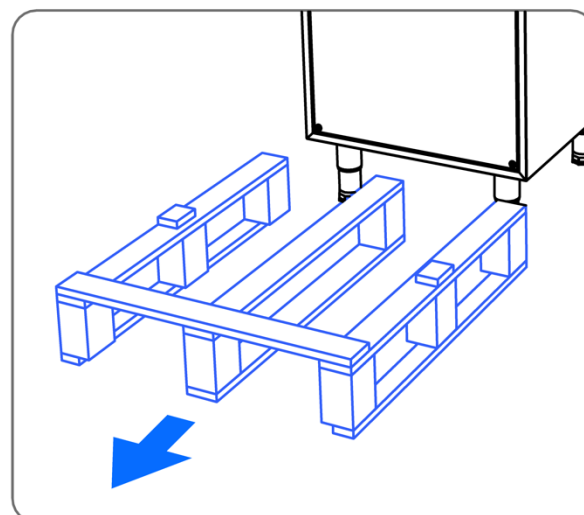
- Locate the adjustable feet (x4) and M6x20mm bolts. They are inside the machine basket.



- Use a PZ2 screwdriver to unscrew the screws in the rear board. Then remove the board from the pallet.



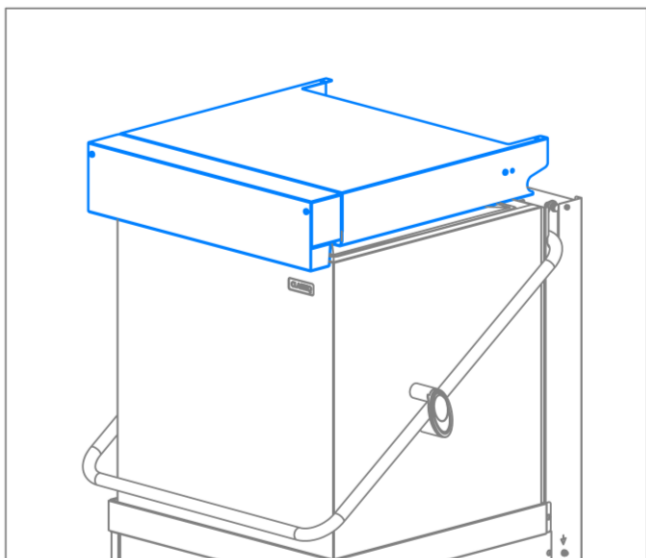
- Fit the feet to the base of the machine. Use a 10mm spanner to tighten.



- With the rear board now removed, slide the pallet from the front of the machine.

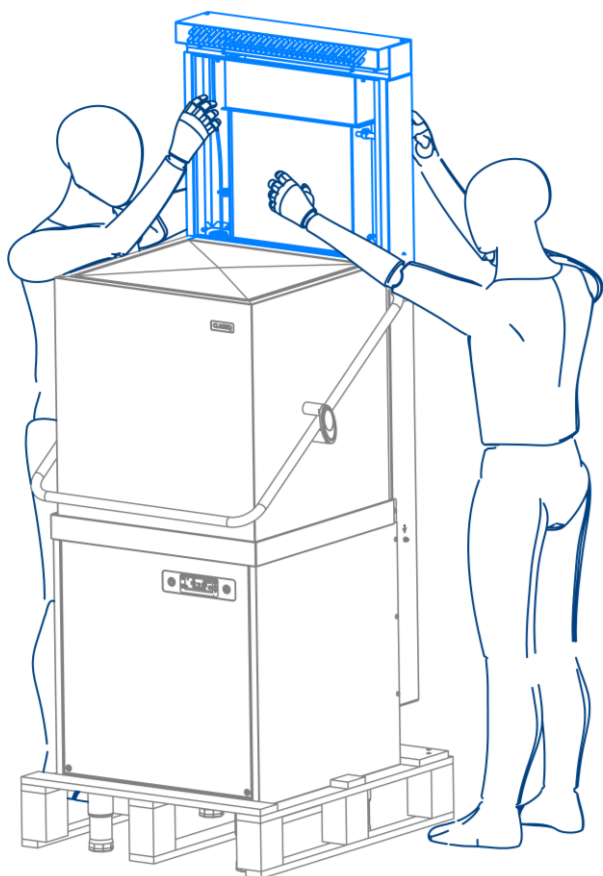
4.3 How to fit the steam unit (SR models only)

We package the steam unit face down on top of the machine. Remove all the outer packaging.



CAUTION

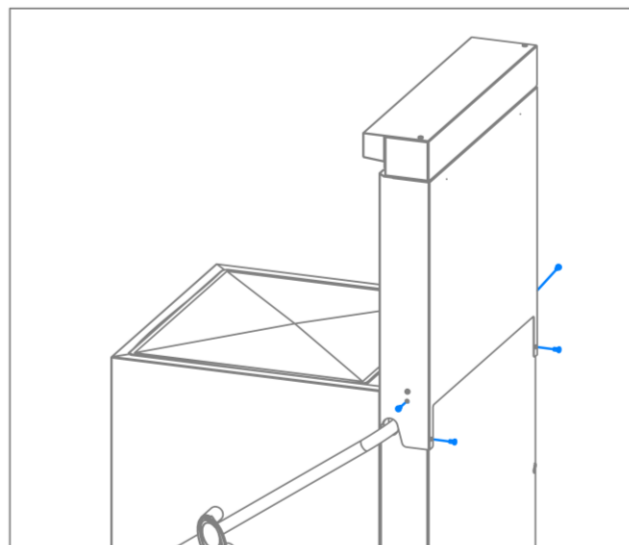
For safety, this activity requires **2 people**.



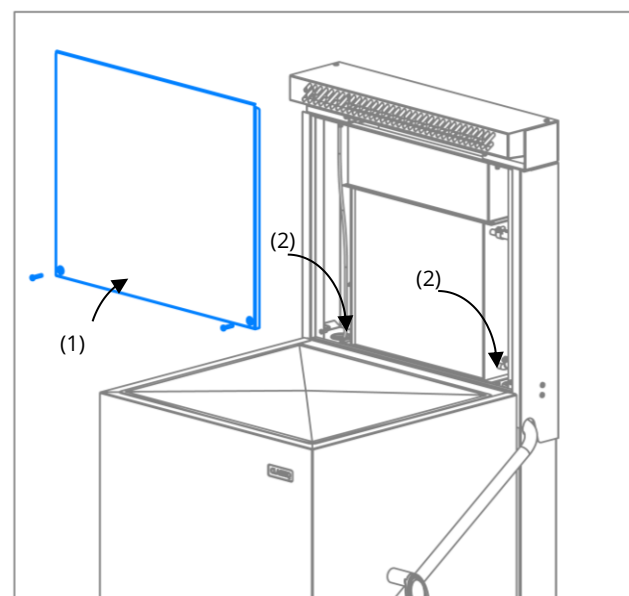
CAUTION

Risk of trapping hands and fingers. **Do not** lift from the bottom. Ensure your hands are clear from the connection point before lowering the steam unit.

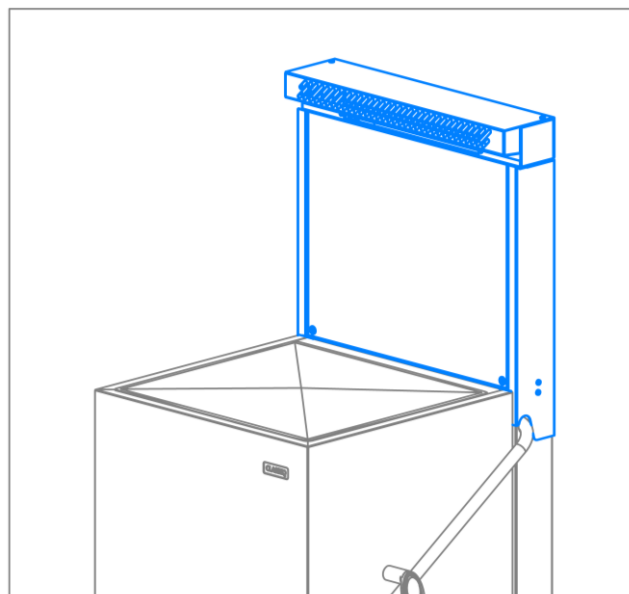
Lift the steam unit and position it over the rear section of the machine. Ensure all hoses and cables are safely placed into the rear void before lowering the steam unit.



Fix the steam unit body to the machine with the 4x M5x10mm Posidrive screws provided. (2x side fixings and 2x rear fixings.)



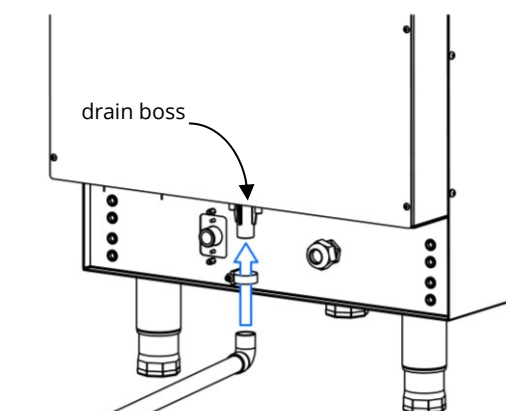
Use the 4x M5x20mm screws provided to connect the top plate to the steam intake. The 4 fixing points are located inside (2).



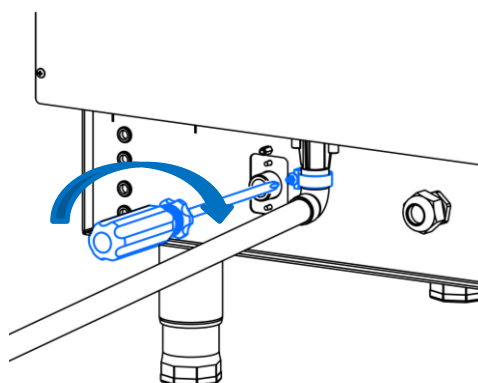
Fit the front cover (1) by hooking the top onto the unit and securing it with 2x M5x20mm screws.

4.4 How to connect the drain hose

Are the feet securely fixed and is the machine upright? If so, locate the drain hose and fit it to the drain boss on the rear utilities shelf. Fix the hose with the jubilee clip we supply.



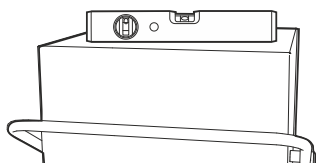
Locate the drain hose and fit it to the drain boss



Fix the drain hose with the jubilee clip or reusable cable tie

4.5 Where to place the warewasher

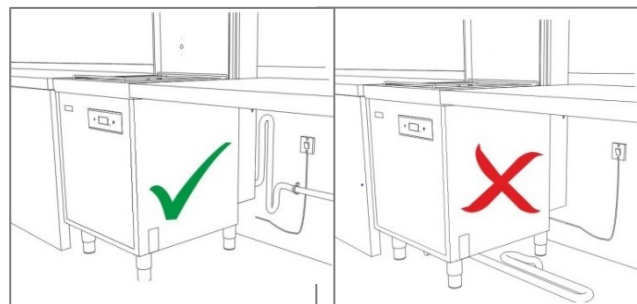
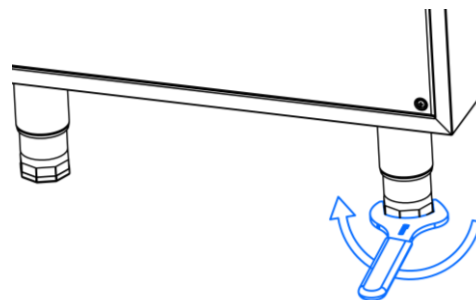
Install the machine on a flat, stable surface that can hold its full weight when filled and can withstand the vibration of regular use.



Ensure there is at least 20mm clearance each side of the machine and 20mm clearance at the rear of the machine.

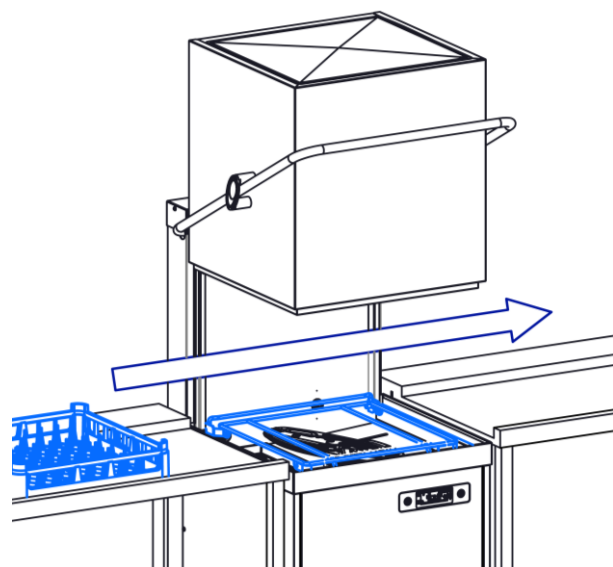
Put the machine in a place that allows you to fit the electrical, water and wastewater connections.

Is the machine in its final position? If so, adjust the adjustable feet to ensure the machine is stable, its weight is equally distributed, and it does not tilt more than 2 degrees in any direction.

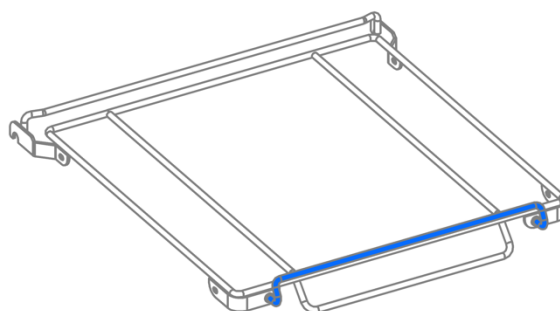


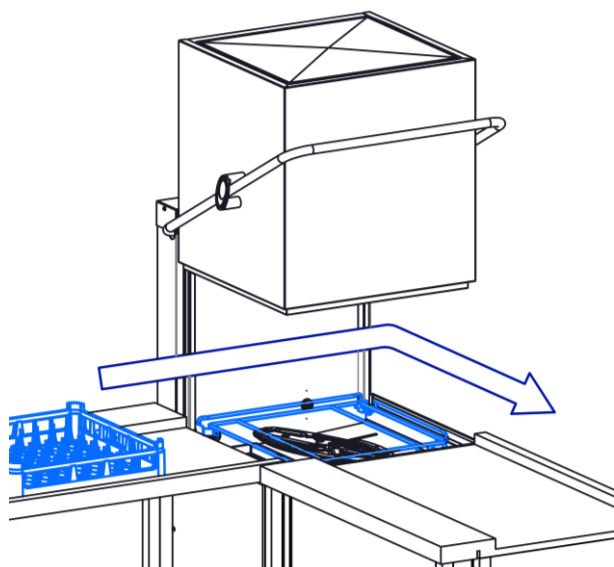
Ensure that the water inlet, chemical tubes and drain hoses are not kinked or squashed. Take care to ensure the machine does not rest on any of its supply hoses or leads.

4.6 How to convert the basket frame

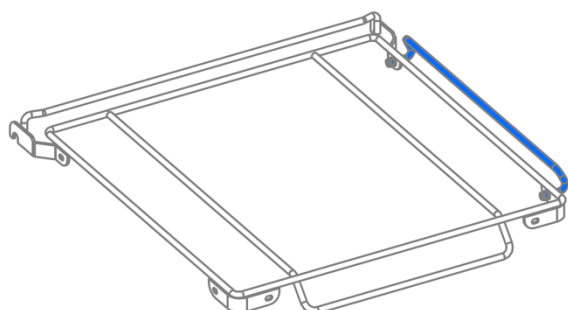


We have set the basket frame with the guide rails at the front and back of the frame. This set-up is suitable for a straight basket entry and exit.





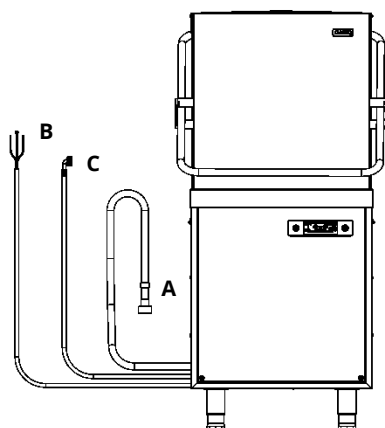
But to install the machine in a corner, you must convert the basket frame, as follows.



Unscrew the guide bar from the front of the basket frame. Attach the guide bar to the opposite side of the exit table.

4.7 Site requirements

4.7.1 Machine services connections



Point	Service	Limits
A	Waste water connection	Within 1.5m radius of point A. Maximum height from the floor 700mm.
B	Electrical mains outlet	Within 1.8m radius of point B.
C	Fresh water connection	Within 1.3m radius of point C. The switch must be easily accessible.

4.7.2 Minimum space

Please refer to the dimension drawing in the specifications (► 11.1 Specifications - Dimensions).

For the machine	Space required
Overall width – plus 20mm clearance for the handle guide on each side of the machine.	775mm
Overall height – plus 50mm clearance above the raised hood when the feet are at their minimum extension.	1990mm
– plus 50mm clearance above the raised hood when the feet are at their maximum extension.	2050mm
Overall height SR models* – plus 50mm clearance above the raised hood when the feet are at their minimum extension.	2065mm*
– plus 50mm clearance above the raised hood when the feet are at their maximum extension.	2125mm*

4.8 Electrical connection



DANGER!

All mains electrical work **must** be carried out by a skilled person (Electrically) in line with local and national regulations.

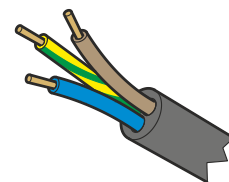
4.8.1 Electrical supply

Electrical connections **must** be carried out in line with local regulations. As a minimum, we recommend you comply with and understand the following points:

- The machine must be connected via a residual current device (RCD) or earth leakage protection device.
- A means for disconnection that has all-poles separation of more than 3mm must be included in the fixed wiring in line with wiring rules.
- Before connecting the machine, ensure the voltage and supply fuse comply with the rating plate.

4.8.2 Mains cable connection

Before connecting the machine, ensure that the available electrical outlet voltage and the supply fuse comply with the rating of the machine. See the rating plate.



Contact your distributor or a qualified electrician if you are unsure how to check this.

The electrical supply must include a disconnection device (circuit breaker or fuse) that complies with local and national regulations.

The machine must be connected directly to the mains electricity using the mains electrical cable we provide. **Do not use** electrical extension lead(s) to supply power to the machine.

4.8.3 Electrical connection specification

When hard-wiring the warewasher into the mains outlet, use a multimeter or voltmeter to ensure that the connection point is electrically isolated before trying to make the connections.

4.8.4 Electrical cable specification

If the mains electrical supply cable is damaged or has deteriorated, you **must** replace it with a cable or cord assembly supplied by us, our service agents or suitably qualified people. It must be to the following minimum specifications.

Warewasher rating (volts phase amps)	Cable size	Temperature rating	Length of cable	Conforms to
220-240V / 1N~/30A	3G 4.0			
380-415V / 3N~/12A	5G 2.5			
380-415V / 3N~/16A	5G 2.5	60°C min.	3m	H07RN-f
380-415V / 3N~/22A	5G 4.0			
220-240V / 3~/17A	4G 2.5			

For the electrical rating of the warewasher, refer to the rating plate (►2.4).

4.8.5 Equipotential bonding



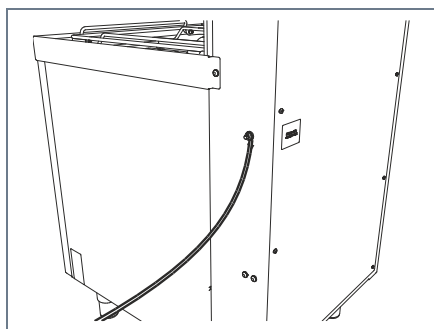
DANGER!



Earthed or bonded: The machine can be earthed or bonded to adjacent metalwork so that it is at the same potential (ie, voltage), if required by local or national regulations (►4.8.5).

Consult your distributor or a qualified electrician if you are unsure how to do this.

The equipotential bonding stud is at the side of the machine and is fitted with an M5 nut. Use an 8mm spanner to connect the bonding wire terminal to this location. Ensure the nut is securely fastened.



4.9 Water supply and connection

4.9.1 Water supply restrictions

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

Supply water temperature:

- 4°C minimum
- 55°C maximum

Supply water dynamic pressure:

The dynamic pressure of the water supply will determine whether the machine needs additional equipment to be installed in the water supply system, as follows:

Measured water pressure	Consequence
0 to 2 bar (0 to 200 kPa)	An external rinse booster pump must be installed to increase the water pressure to the machine.
2 to 10 bar (200 to 1000 kPa)	No modifications required – you can install the machine with a direct hose connection to the existing water supply.

Minimum supply flow rate:

- 4 litres/minute.

Water hardness:



CAUTION

Damage to the warewasher caused by limescale is **not** covered by the manufacturer's warranty – see section 12.

For the longevity of the machine and to ensure you get consistently good washing results, the machine must wash with soft water $\leq 3^\circ\text{dH}$. This means water that contains a low concentration of ions, in particular ions of calcium and magnesium. There are 3 ways to achieve this:

- The supply water must be naturally soft.
- The machine is specified as fitted with an internal water softener unit.
- Your water supply to the machine is from a suitable external water softener unit.

4.9.2 Water hardness explained

Water hardness occurs because certain chemicals in the rocks through which the water passes on its way to the consumer leach into the water.

The problem shows itself in two forms:

- When hard water is heated, the chemicals come out of solution and appear as solid particles (limescale) that are carried round the machine. These particles are formed sooner at the hottest part of the machine – typically, the rinse element and in the rinse tank. This is why the rinse tank is the best place to check if limescale is being formed.
- Most commercial washing chemicals do not operate as efficiently in hard water. This will often show in poor wash results, failure to remove tannin stains or condensation on glasses. Tannin stains appear to cling to the hard water film in the drink, which then clings to the surface of the cup or saucer. With soft water this is not the case.



Some types of hard water do not produce limescale when heated but still reduce the performance of washing chemicals. This is known as permanent hardness. Temporary hardness is when the hardness can be largely removed by conversion into limescale by boiling.

If limescale is produced inside the machine, it will cause maintenance problems, for example:

- Coating of heating elements, leading to slow heating and, eventually, element failure.
- Blockage of rinse jets, showing as poor results.
 - Wear of the bushes in the centre boss. This shows as poor results and possibly wash water passing backwards into the rinse system.
- Blockage of the rinse aid injection point in the boiler.
 - White marks on glasses, dishes and cutlery.
 - Dishes or cups looking dirty even after a wash, especially on coffee or teacups.
 - Discolouration of the inside of the machine, making cleaning difficult.
 - Blockage of hoses due to limescale deposits 'furring up' the inside of the hoses.

When you find limescale, you must remove it with commercial de-scaling chemicals. Use them with care in line with the product instructions. Always follow the descaling instructions in this manual. The rinse tank is hard to de-scale. A service engineer may need to do it. Your local water board or water supply company should be able to tell you if the water in your area is hard or soft. Alternatively, you can test the hardness yourself with a simple water hardness kit.

4.9.3 Water softener settings

Your water softener needs to be set up to soften the water supply depending on the water hardness, according to the following table:

Water softener setting	Hardness				Water volume (litres)	No. of cycles
	°dH	°e/°clark	°fh	ppm		
h00	---- Water softener deactivated ----				-----	-----
h01	1	1.3	1.8	18	48.1	16
h02	2	2.5	3.6	36	45.7	15
h03	3	3.8	5.4	54	43.4	14
h04	4	5.0	7.2	71	41.2	14
h05	5	6.3	9.0	89	39.0	13
h06	6	7.5	10.7	107	36.9	12
h07	7	8.8	12.5	125	34.9	12
h08	8	10.0	14.3	143	32.9	11
h09	9	11.3	16.1	161	31.0	10
h10	10	12.5	17.9	179	29.2	10
h11	11	13.8	19.7	196	27.4	9
h12	12	15.0	21.5	214	25.7	9
h13	13	16.3	23.3	232	24.1	8
h14	14	17.5	25.1	250	22.5	7
h15	15	18.8	26.9	268	21.0	7
h16	16	20.0	28.6	286	19.5	7
h17	17	21.3	30.4	303	18.2	6
h18	18	22.5	32.2	321	16.9	6
h19	19	23.8	34.0	339	15.9	5
h20	20	25.0	35.8	357	14.4	5
h21	21	26.3	37.6	375	13.3	4

Water softener setting	Hardness				Water volume (litres)	No. of cycles
	°dH	°e/°clark	°fh	ppm		
h22	22	27.5	39.4	393	12.3	4
h23	23	28.8	41.2	411	11.3	4
h24	24	30.0	43.0	428	10.4	3
h25	25	31.3	44.8	446	9.6	3
h26	26	32.5	46.5	464	8.8	3
h27	27	33.8	48.3	482	8.1	3
h28	28	35.0	50.1	500	7.4	2
h29	29	36.3	51.9	518	6.8	2
h30	30	37.5	53.7	536	6.3	2

4.9.4 Water supply hose connection

We recommend you install a shut-off valve in the mains water supply line near the machine, so it is easily accessible.

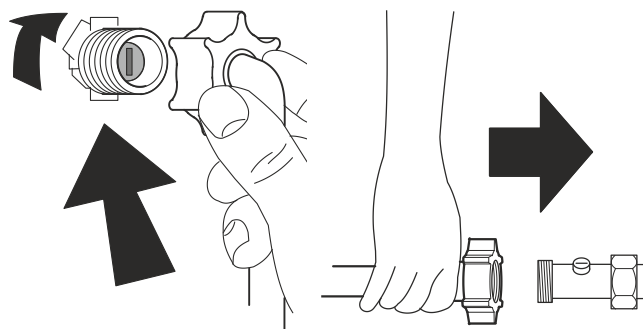
We supply the machine with a new water inlet hose (UK Water Regulations Advisory Scheme (WRAS)). This requires a G $\frac{3}{4}$ " (¾" BSP) male threaded connection at the mains water outlet.

WARNING



Use the supplied hose: Use only the hose we have supplied with the machine to connect it to the water supply. **Never use** old, existing, faulty or damaged hoses.

Connect the 90-degree bend connector of the water supply hose to the inlet on the back of the machine. Connect the straight connector to the mains water supply.



- Ensure the rubber seals are in place in the connectors.
- Only **hand tighten** the connectors.
- Ensure all connections are watertight before use.

4.10 Waste water and connection

4.10.1 Waste water system

The machine's waste water system is a pumped drain application.

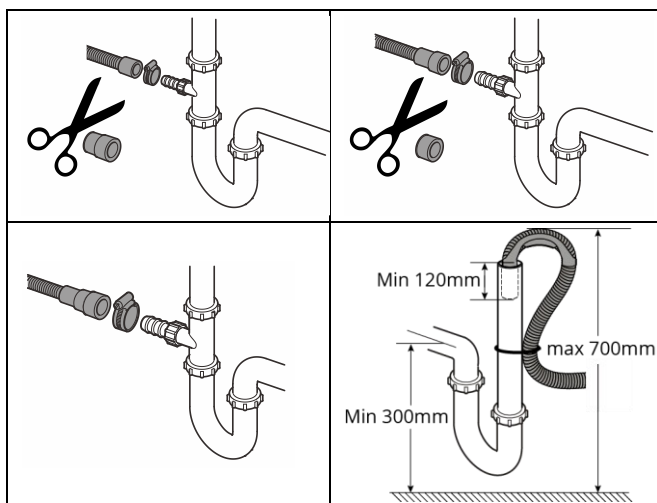
4.10.2 Waste water connection

Pumped drain

You can trim the outlet end of the waste hose of the pumped drain to fit various sizes of pipes and spigots.

The waste plumbing for this machine can be up to a maximum of 700mm above ground level.

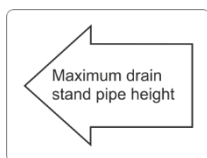
Fit the machine's waste hose to the existing waste piping. Make sure the waste hose is not kinked. Make sure you fit the waste hose securely so it cannot come out while the machine is working.



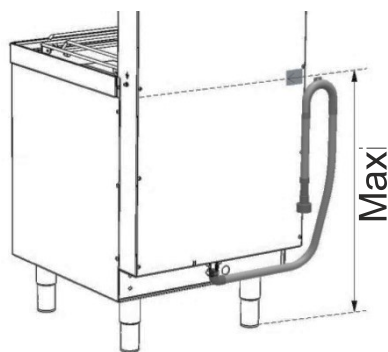
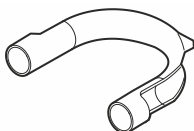
The waste water must be disposed of down the foul drains system, ie, the drains from sinks and WCs. You **must not** connect the waste water to the surface water drainage system.

You must install a form of back flow prevention in the waste water plumbing in line with local and national regulations.

Ensure that no part of the waste hose from the machine is higher than the mark on the rear of the machine (shown), when the machine is in place.



If the machine is fitted to a standpipe, use the waste hose hook to help manage the hose.



4.11 How to attach the chemical bottles

WARNING



Wear the correct personal protective equipment, eg, gloves and goggles, when handling chemicals. Observe all safety notes and dosing recommendations printed on the packaging.

CAUTION

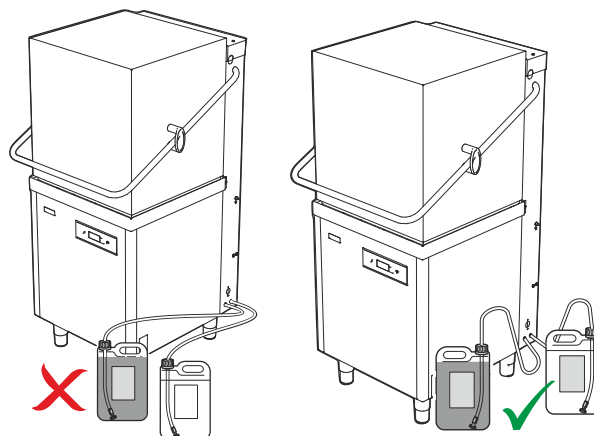


Only use commercial-grade detergents and rinse aids in the machine.

machine. You can then easily check the levels and replace the bottles as needed.

A coil of tubing is connected to each of the chemical pumps inside the machine.

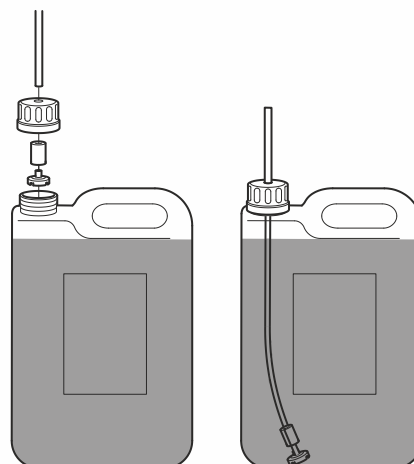
These tubes exit the rear of the machine. You should route them to the chemical bottle locations. The tubes need to be long enough to allow you to move the bottles without the risk of them falling over. You can cut off excess tubing.



Tubing colour	Chemical
Blue	Rinse aid
Clear	Detergent

4.11.1 How to prepare the bottles

1. Remove the cap from the chemical bottle.
2. Using the drill and 8mm bit, carefully drill a hole in the centre of the cap.
3. Feed the tube through the hole.
4. Fit the bottle weight over the tube and then attach the end of the tube to a filter.
5. Feed the filter and bottle weight into the bottle and screw on the cap.
6. Ensure the filter and weight are sitting at the bottom of the bottle.



Put the chemical bottles in a safe, stable place that is close to the

4.12 Commissioning the integral water softener (if fitted)

To commission the water softener unit, follow the instructions below:

- Open the hood to the machine.
- Remove the salt reservoir cap.
- Fill the reservoir with fresh water.
- Using the water softener funnel supplied, fill the reservoir with about 1.5kg of granulated salt.
- Wipe away any excess or spilt salt from the wash chamber and reservoir opening.
- Refit the salt reservoir cap. Ensure the cap is fitted flat and secure.
- Do not overtighten the cap.



CAUTION



Do not run the warewasher if there is no salt in the salt reservoir, as this will allow limescale to build up. Limescale deposits in the warewasher will invalidate the warranty.

CAUTION



Do not add any chemicals, such as detergent or rinse aid to the reservoir. These will damage the warewasher.

CAUTION



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

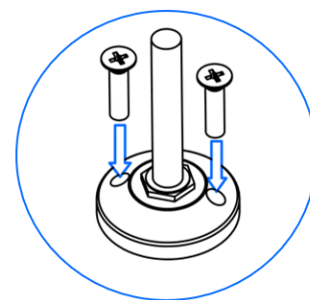
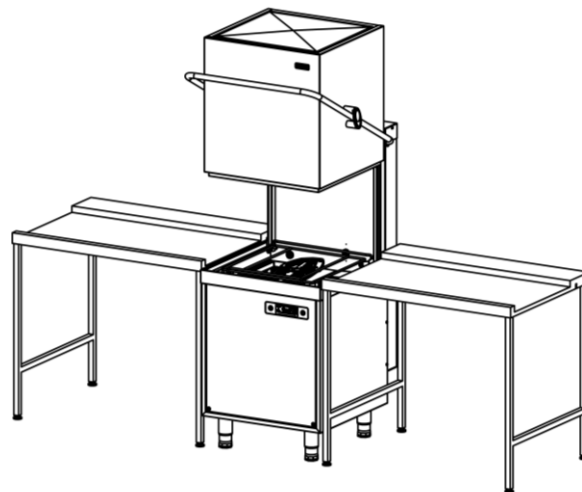
CAUTION



Secure the salt reservoir cap: Make sure the salt reservoir cap is properly secured. If it is not secure, water or chemicals (or both) can leak in or out of the unit, damaging the machine).

4.13 Using the Classeq tabling

The machine is intended for fixed installation only using Classeq tabling fixed to the floor surface and sealed to the unit. Any other installations must be agreed with and approved by Classeq. Fit the tables to the floor using 2 fasteners per foot.



5. Commissioning

5.1 Features of the commissioning interface



Item	Description
1	ON button
2	Menu button
3	Select button
4	Back button
5	Up button
6	Down button
7	Display Screen
8	LED indicator – service mode

5.2 Commissioning check-up

5.2.1 Chemicals

We have factory-set your machine to the default chemical dosing settings. However, there are many chemicals on the market. Each has its own concentration requirements, so you can adjust the dosage by following the instructions below:



Refer to the chemical bottle or contact the chemical supplier to find the concentration requirements for the rinse aid and detergent in millilitres of chemical per litre of water (ml/L).

5.2.2 Water softener unit (if fitted)

Check the hardness of your water supply (°d). You can do this yourself using a simple water hardness testing kit or you may be able to get the information from your water supplier.

Refer to our water softener settings table to find the right setting for your water hardness.

For an external water softener unit, refer to the supplier specification and water capacity between regeneration.

5.2.3 Wash and rinse tank temperatures

We have factory-set the wash and rinse tank (boiler) temperatures. You will not normally need to adjust them.

If you want to know more, please refer to the latest version of the Engineers Manual on our website. It gives full information about temperatures and interlock settings.

5.3 Commissioning set-up

When you power up the machine for the first time, it automatically goes into commissioning mode. So, before you can start using the machine, you will need to complete the initial set-up. Follow the instructions on the display screen (7).

Step 1: Select the language, using the up and down buttons (5, 6). Confirm your choice by pressing select (button 3).



Language options	
EN	English
DE	German
FR	French
ES	Spanish
NL	Dutch
PL	Polish
IT	Italian
TR	Turkish
RU	Russian
CS	Czech
BR	Brazilian

Step 2: Confirm your initial set-up by pressing select (button 3).



Step 3: Select the type of machine – glasswasher or dishwasher – by using the up and down buttons (5, 6). Confirm your choice by pressing select (button 3).



Step 4: Set the sound alerts to on or off by using the up and down buttons (5, 6). Confirm your choice by pressing select (button 3).



Step 5: This step is only for a machine with an **internal water softener unit**. Choose the water hardness setting by using the up and down buttons (5, 6). Confirm your choice by pressing select (button 3). We have factory-set the water hardness at the highest level, 30°DH.

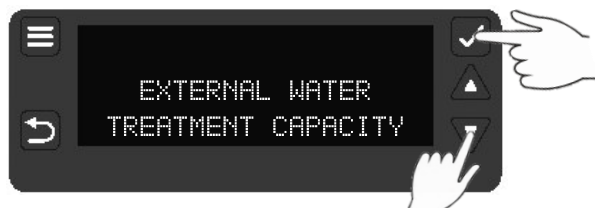
Minimum: 0°DH. Maximum: 30°DH.

Please note that at the minimum setting of 0°DH, the water softener unit is deactivated.



Step 6: This step is only for a machine with an **external water softener unit**. Choose the external water treatment capacity in litres by using the up and down buttons (5, 6). Confirm your choice by pressing select (button 3). Refer to the supplier data for the external water softener device.

Minimum is 1 litre. Maximum is 9999 litres.



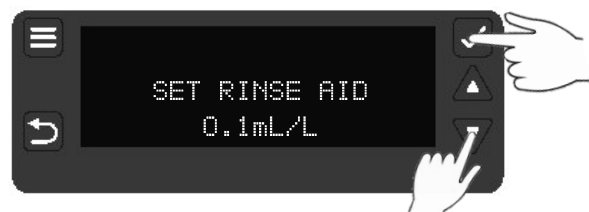
Step 7: Set the detergent dose by using the up and down buttons (5, 6) for the concentration required in millilitres per litre of water (ml/L). Confirm your choice by pressing select (button 3). We have factory-set it to 3.0ml/L.

Minimum: 0.1 ml/L. Maximum: 9.99ml/L.

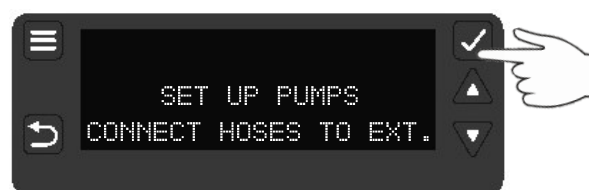
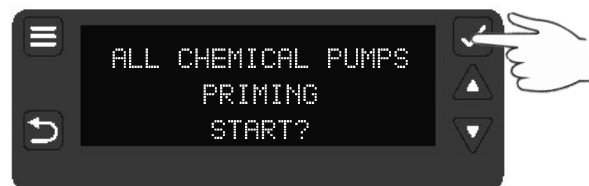


Step 8: Set the rinse aid dose by using the up and down buttons (5, 6) for the concentration required in millilitres per litre of water (ml/L). Confirm your choice by pressing select (button 3). We have factory-set it to 0.1ml/L.

Minimum: 0.1 ml/L. Maximum: 9.99ml/L.



Step 9: Start priming by selecting button 3. Make sure the tubes are free of obstruction and not kinked. Priming lasts for 15 minutes but you can stop early by pressing button 4.



Step 10: The display (7) shows that commissioning is complete. Your machine is now ready to use.

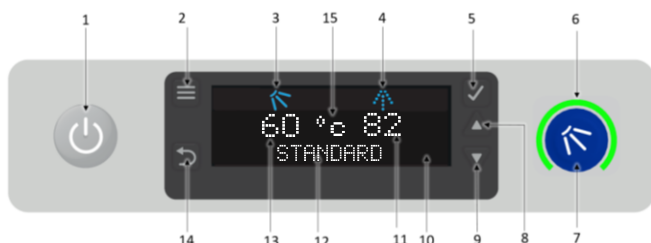


6. Operating

Before operating the machine, ensure the mains electrical and water supplies are turned on.

Supervise any children. They must not play with or operate the machine.

6.1 Control panel



Item	Description
1	On/off button
2	Menu button
3	Wash cycle display
4	Rinse cycle display
5	Select and confirm button
6	Colour status indicator
7	Cycle button
8	Up button
9	Down button
10	Program display
11	Rinse temperature
12	Stage display
13	Wash temperature
14	Return and back button
15	Temperature unit



NOTE

LED indicator (6) and stage display (12):



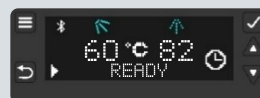
Flashing amber LED indicator (6) – the machine is not ready (wash tank not full or rinse tank not full or wash tank still heating or rinse tank still heating).

Stage display (12) – this shows progress of the filling and heating stage.

Note that tank-full interlocks always apply. (In other words, the wash tank and rinse tank must be full of water before heating.) You can alter operating temperature interlocks as required (►5.2.3).



Green LED indicator (6) means the machine is ready to start the cycle.



Stage display (12) will display 'ready' information.



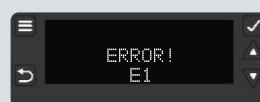
Blue LED indicator (6) means the machine is in cycle.



Stage display (12) displays information about the wash program you have selected.



Red LED indicator (6) means a serious error has occurred.



Stage display (12) displays the error number. Please refer to section (►9) for more details.

6.2 How to turn on the warewasher



To turn on the machine, ensure the door is closed and press the on/off button (1) on the control panel. The display will illuminate, and the machine will start to fill.

6.3 Warewasher ready to operate



The machine operates a pulse fill function. This means it will fill the rinse tank with water, heat it to 60°C, then transfer the water to the wash tank. During the fill stage, the LED indicator (6) will flash amber.



When the wash tank is full, the LED indicator will go green to show the machine is ready to run a cycle.

How long the machine takes to fill and heat the water will depend on the power rating stated on the rating plate (►2.4) and the incoming water temperature. Below is a guide to these times when the incoming water is 16°C.

Rating	Time
220-240V / 1N~ / 30A	40 min
380-415V / 3N~ / 12A	40 min
380-415V / 3N~ / 16A	35 min
380-415V / 3N~ / 22A	30 min

6.4 Wash and rinse temperatures

The temperature displays (13 and 11) on the machine can be shown in °C or °F (15). Refer to the custom setting in the Change the units section (► 8.8).

These are our factory-set temperatures:

	Dishwasher	Glasswasher
Wash	60°C / 140°F	60°C / 140°F
Rinse	82°C / 180°F	70°C / 158°F

6.5 How to select a wash program



Your machine has multiple program times; these are pre-set to offer the best results. The active program is displayed (12). To change a program, press the up and down buttons (8, 9). Press select (button 5) to confirm.

When the machine is turned on (► 6.2), it will **always** start on the standard program.

6.5.1 Dishwasher program options:

Display	Description	Approximate time (min)
	Light	1.5
	Standard	3
	Intensive	5
	Utensil	7

6.5.2 Glass washer program options

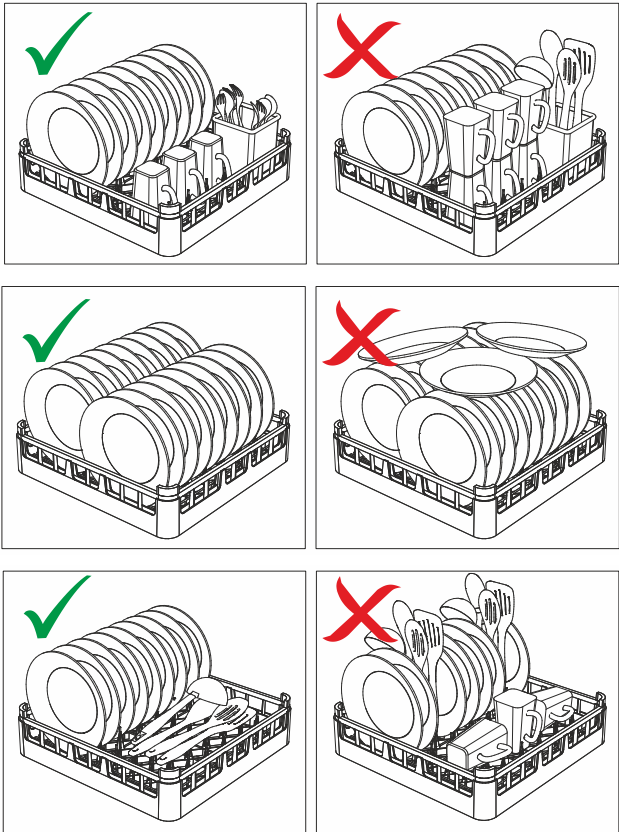
Display	Description	Approximate time (min)
	Light	1.5
	Standard	2

Your machine has a heat interlock to ensure the rinse is at the right temperature. This will extend the wash cycle if the rinse cycle boiler has not achieved the required temperature within the cycle times given above.

For full information on operating temperatures and the interlock settings, please refer to the latest version of the Engineers Manual on our website.

6.6 How to load a dishwasher basket

For dishwashers ONLY



6.6.1 Is an item suitable for washing?

Before loading any item into your dishwasher, check it is dishwasher compatible.

- Pots and pans made of aluminium or stainless steel are normally safe to put in a dishwasher – but always check for a dishwasher-safe indication on the base of the pans. If this is not obvious, check the manufacturer's website or label.
- Non-stick pans – many manufacturers state these are dishwasher safe but always check for a dishwasher-safe indication on the base of the pans. If this is not obvious, check the manufacturer's website or label.
- Items made of brass, bronze, wood, or china with gold leaf are not suitable for washing in a dishwasher. Wash them by hand.
- Large kitchen knives may suffer over time if washed in a dishwasher. Wash them by hand.

6.6.2 Scraping off leftover food and pre-rinsing

CAUTION



Possible failure of the washing programme due to heavy dirt ingress. Pre-rinse all dishes and pans with **cold** water to remove food residues

Large chunks of leftover food should be scraped off plates, bowls and pans. For best results, pre-rinse all dirty wares before they go in the dishwasher. Pre-rinse them in plain hot water or water with dishwasher detergent added to it. Do not use handwash detergent as this may cause foaming when you transfer the wares to the dishwasher.

6.6.3 Cutlery

WARNING



Possible risk of injury– Arrange sharp, pointed utensils so that they do not cause injury when unloading.

Knives, forks and spoons should be loaded into the cutlery basket. Load forks and spoons handle end down. Load knives handle end up, to prevent cuts when unloading. Do not overfill the compartments. Do not sort into cutlery types, ie, do not fill one compartment in the basket with all spoons: they may nest with each other and not wash properly.

6.6.4 Plates and bowls

Stack plates and bowls so they are free draining. Large plates should be placed face down in the floor of a basket.

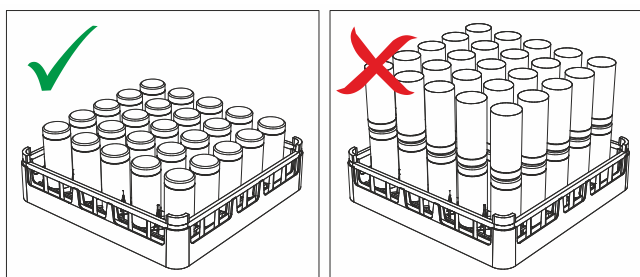
6.6.5 Long utensils

Long utensils and cutlery, such as ladles and long knives, must be placed horizontally on the floor of an open basket. This will avoid possible collision with wash and rinse arms.

6.6.6 Pots and pans

Pots and pans should be placed in an open basket face down. Try not to overlap them.

6.7 How to load a glasswasher basket



Glasses should be placed in the open basket open end down.

Always try to fill the basket. This prevents glasses clinking against each other during a wash cycle. With tall glasses, always check carefully that they will fit in the glasswasher when stood upright in the open basket.

WARNING



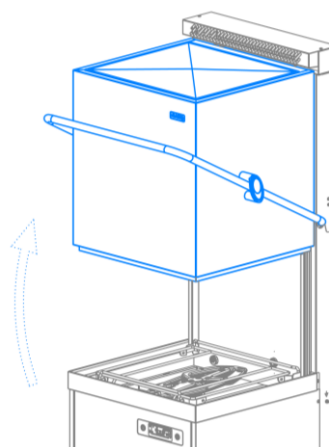
Possible risk of injury– Do not place any objects on the hood.

Children: Supervise children to ensure they do not play with or operate the machine.

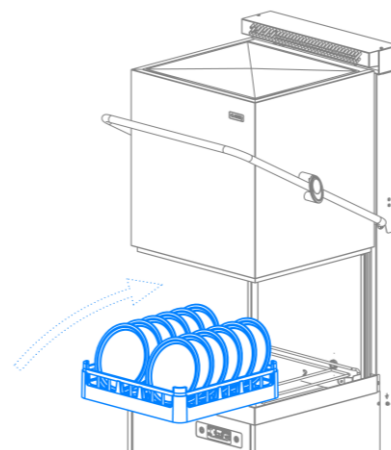
6.8 How to start a cycle

Always remove excess food and debris from any dishes and glasses to be washed. **Do not** use the machine as a waste disposal unit. To start a cycle, follow the instructions below.

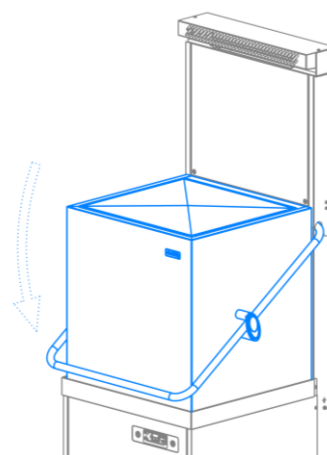
- Open the hood.



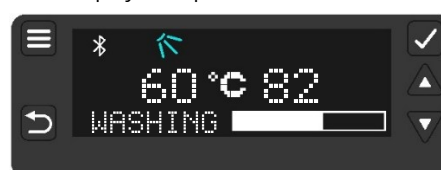
- Load the basket into the machine



- Close the hood.



- The wash button indicator will change to blue and the display will update to show that a wash cycle has started.



If you press the cycle button before the machine has reached the required levels and temperatures, the cycle indicator (6) will flash amber. The machine will automatically start when the requirements have been met.



- At the end of the cycle, the blue cycle indicator (6) goes out. Open the hood and remove the basket.
- Reload the machine and repeat as required.

Wares in the basket may be wet but will dry in a short time.

WARNING



Possible risk of scalding from hot wash water– The wash water is at a temperature of approx. 62°C.–Do not open the hood while the machine is washing. There is a risk of the hot wash water spilling out.



WARNING

Heat of wares: Understand that wares may be hot when removed from the machine.

6.9 How to drain down the warewasher

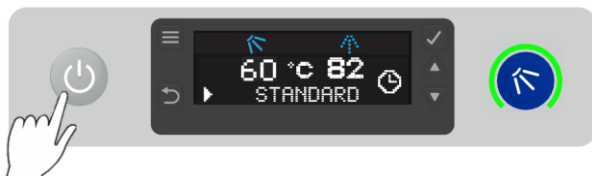
CAUTION



Daily drain down: It is important that you drain down the machine at the end of each working day

During normal operation, the machine will drain out any excess water. To fully drain down the machine, follow the instructions below.

Close the hood.



Press the on/off button (1) to turn off the machine.



Press the select button (5) to start the drain cycle.



Stage display (12) will show the progress of the drain cycle.

The machine will drain down the wash tank.

The machine will do a self-rinse and shut down automatically.



NOTE

- Once empty, we recommend that you turn off the mains water and electricity supplies and clean the machine (►7).
- For hygiene reasons, we recommend that when you have drained and cleaned the machine, you leave the hood open to help the wash chamber dry naturally.

6.10 Faults

If there is a fault:

- Switch off the machine using the on /off button.
- Isolate the electrical supply to the machine.
- Turn off the water supply.
- Request a service callout.

6.11 How to use the deep clean program

You can choose a deep-clean cycle within the drain options. Simply use the up and down buttons to scroll and then select 'deep clean'.



The deep clean cycle will ask you to remove and clean the filters. Do this and put them back. When you close the hood, the machine will carry out the deep clean program. Within this program the machine will run through the following sequence:

- Clean with the existing tank water.
- After water agitation, it will drain down the wash tank.
- The tank will refill with warm water but with increased detergent.
- The machine will heat the boiler and pulse/run the wash pump.
- At the end, the machine will do a normal drain-down cycle.

If you regularly use this program, the exchange of fresh water with increased detergent helps keep your machine hygienic.

Operation times depend on the starting conditions, water temperature and the power in the rinse boiler. Estimated running times for this program are:

- 6kW (22 minutes) 30A Single phase & 12A three phase
- 9kW (20 minutes) 16A Three phase
- 12kW (18 minutes) 22A Three phase

6.12 How to use the refresh program

You can select a refresh program within the drain options. Simply use the up (8) and down (9) buttons to scroll and then select the refresh option.



The refresh program will empty the wash water and refill the machine with fresh water.

6.13 How to use the descale program

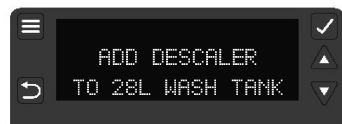
The descale program is available within the shutdown options. Use the up (8) and down (9) buttons to scroll and then select descale.



Once you have chosen and confirmed the descale program, the machine will start to drain down.



The machine will then re-fill without any chemical dosing.



Add descale chemical to the wash tank and close the hood.



The machine will run through a repeated wash and rinse cycle.



The machine will ask if you would like to continue or finish.
Press **back** to continue.
Press **confirm** to finish.

 Selecting **back** will repeat this process.

 Selecting **confirm** will drain the machine and shut it down.

WARNING



Wear the correct personal protective equipment, eg, gloves and goggles, when handling chemicals. Observe all safety notes and dosing recommendations printed on the packaging.



CAUTION

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

7. Maintenance and servicing



DANGER

The warewasher **MUST** be disconnected from its power source during cleaning and servicing or when replacing parts.



DANGER

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



WARNING

Do not use cleaning agents that contain **chlorine, bleach** or **hypochlorite**.



WARNING

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



CAUTION

Do not spray the exterior or interior of the warewasher and the surrounding area (panels, base) using a water hose, steam-jet air ejector or high-pressure cleaner.



CAUTION

Do not use steel wool, wire brushes or any other abrasive materials.



CAUTION

Rusty objects: Ensure that there are no rusty foreign objects in the machine which can cause even "rust-free stainless steel" material to start rusting. Rust particles can come from non-rust-free cleaners, damaged wire racks or non-rust-protected water lines

7.1 Before you clean the warewasher

First, ensure the machine has been drained down ([►6.9](#)).

Turn off the mains electrical supply before cleaning the machine.

7.2 Daily cleaning

We recommend you clean the machine daily to ensure good hygiene.

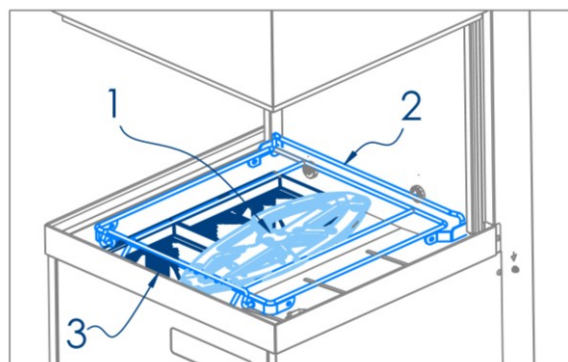
7.2.1 Exterior cleaning

Wipe the outside of the machine with a damp (not wet) sponge. Once dry, clean it using a cleaning agent for stainless steel.

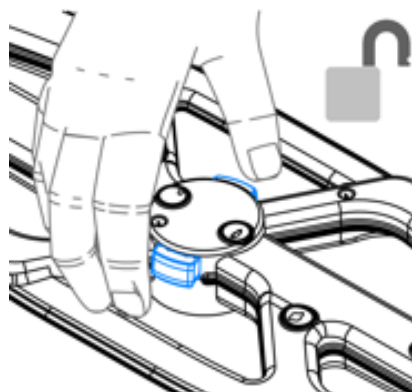
7.2.2 Interior cleaning

Clean the inside of the machine after each service when the machine is drained down.

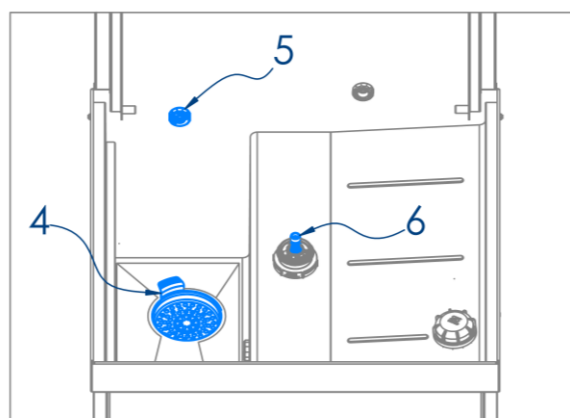
As a minimum, we recommend you check and clean the following:



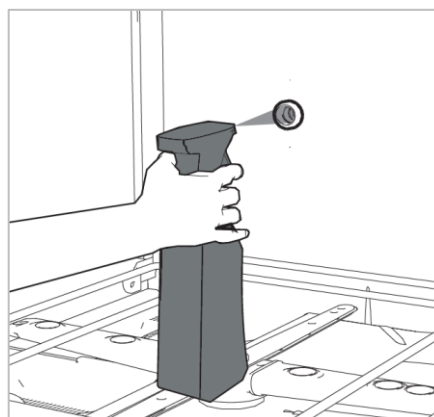
1. Remove and clean the top and bottom wash arms (1)



2. Remove and clean the basket frame (2)
3. Remove and clean the filters (3) and secondary filter (4)



4. Using a spray bottle with a jet nozzle, clean the ball in the anti-siphon device (5).

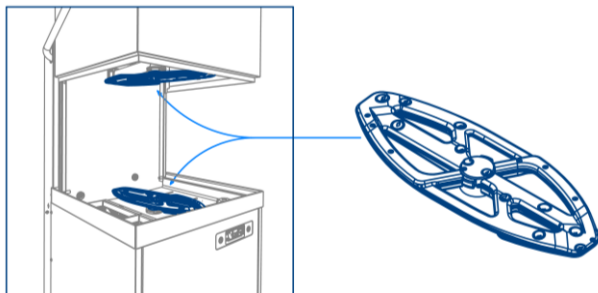


5. Remove any debris from the wash arm bearings (6) on the top and bottom.
6. Ensure all arms and filters are refitted to the machine before switching on the machine.

7.3 Weekly cleaning

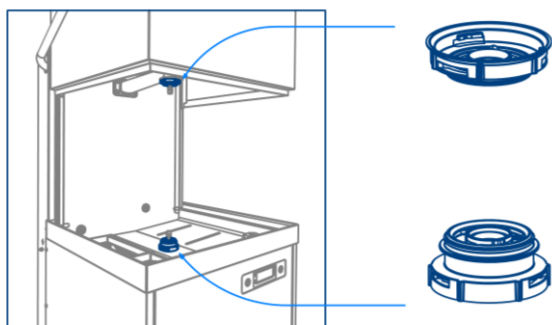
We also recommend you clean some areas more thoroughly every week.

7.3.1 Cleaning the rotating wash arms (top and bottom)

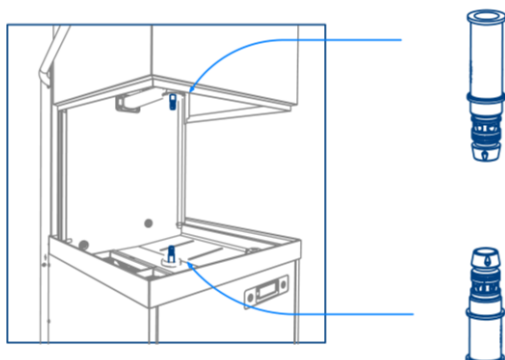


- Remove inspection caps (x2) using the coin slot quarter turn.
- Check and remove any debris from wash and rinse nozzles.
- Rinse out with water under a tap.
- Replace inspection caps.

7.3.2 Cleaning the wash arm bearings (top and bottom)



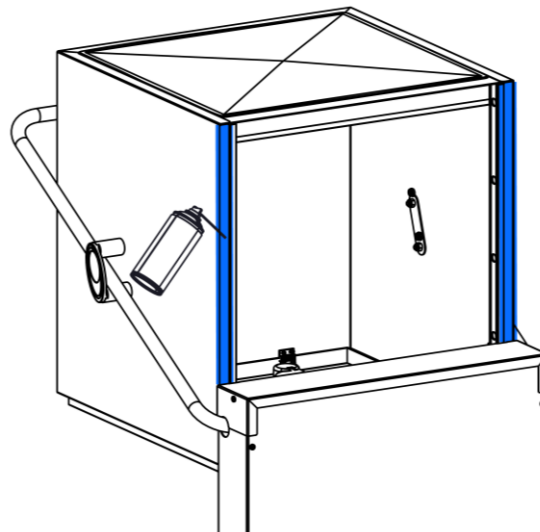
1. With the wash arms removed, remove the bearing nuts by unscrewing them a quarter turn. Rinse and wipe clean any debris.



2. Remove and clean the wash arm bearings by rinsing them thoroughly under running water.
3. Replace parts before use.

7.3.3 Hood runners

If the hood starts to feel heavier, this could be caused by friction on the runners. Apply a food-grade grease to the hood runners with the hood in the open position.



7.4 Regular maintenance

We recommend you have an authorised Classeq service engineer carry out the maintenance of the machine at least once a year so that vulnerable parts can be checked and replaced accordingly. Original spare parts must be used for repairs and to replace worn parts. Worn parts are, for example:

- dosing pipes
- water supply hose
- drain hose
- bearings of the rotating wash arms.

7.4.1 Water softener unit (if fitted)

CAUTION



Do not run the machine if there is no salt in the salt reservoir, as this will allow limescale to build up. Limescale deposits in the machine will invalidate the Manufacturer's Warranty.

CAUTION



Do not add any chemicals, such as detergent or rinse aid, to the salt reservoir. These will damage the machine.

CAUTION



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

CAUTION



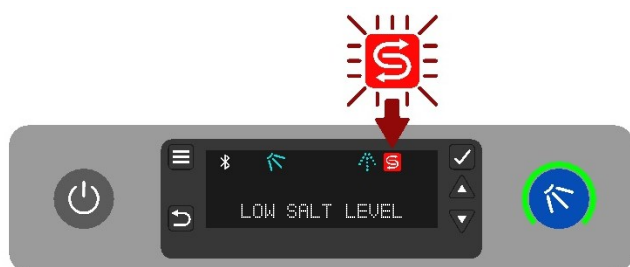
If the salt reservoir cap is not properly secured, water or chemicals (or both) can leak in or out of the unit, damaging the machine.

CAUTION



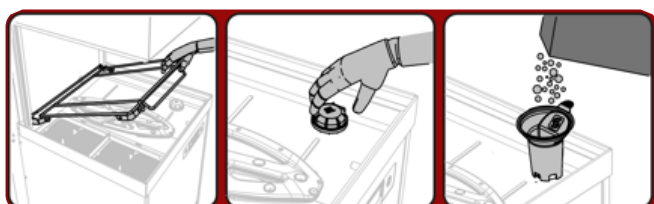
Risk of rust formation in the filling area. Immediately after filling, start a wash cycle to rinse off any salt residue.

When the salt level inside the salt reservoir gets low, the refill salt indicator will illuminate on the display.



The salt should be added as soon as possible to avoid limescale build-up. To refill the salt reservoir, follow the instructions below:

- Open the door to the machine.
- Remove the salt reservoir cap at the front right-hand corner.
- Using the salt funnel supplied, fill the reservoir with granulated salt.
- Wipe away any excess or spilt salt from the wash chamber and the reservoir opening.
- Refit the salt reservoir cap, ensuring the cap is fitted flat and secure.
- Do not overtighten the salt reservoir cap.
- Drain down the machine and refill it to remove any residual salt water after refilling the reservoir.



NOTE

The refill salt indicator may stay illuminated for up to 3 complete wash cycles after filling or refilling the salt reservoir with salt.

7.5 Limescale build-up



CAUTION

Damage to the machine caused by limescale is **not** covered by the Manufacturer's Warranty.

For best results, be sure to operate the machine with soft water so that limescale does not build up.

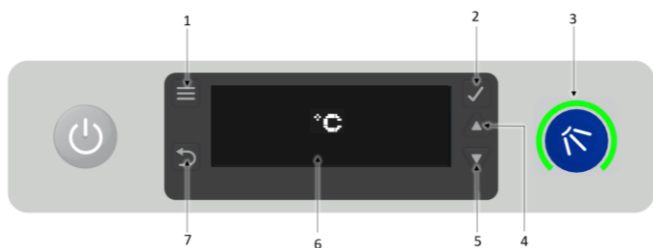
If you connect the machine to an external water softener unit, be sure to routinely regenerate it in line with the manufacturer's instruction manual.

If your machine has an internal water softener unit fitted, ensure you maintain the salt level in line with the instructions in this manual.

If you operate the machine with hard water and without the relevant water treatment, its internal workings and water pipes can get a build-up of limescale. Your washing results will deteriorate and the machine could be damaged. For more information on hard water, refer to Water supply and connection (►4.9).

8. Custom settings

Your machine comes with factory pre-set values. You also set values when you commission the machine. If there's a change in circumstances (eg, language, change of chemical, hardness), you can update those values.



Item	Description
1	Menu button
2	Confirm button
3	LED indicator
4	Up button
5	Down button
6	Display screen
7	Back button

8.1 Settings menu

To customise your settings, you will need to enter the settings menu.



Press the menu button (1). The LED indicator (3) changes to RED.



To scroll through the options, press the up button (4) and down button (5). You can choose an option by pressing the confirm button (2). Pressing the back button (7) will take you to the previous screen. The following options are available in this menu.

- Language
- Chemicals
- Water hardness
- Alert sound
- Bluetooth
- Set wash mode
- Change units
- Service*



NOTE

Please note only a skilled person should access the service option.

8.2 Language



Press the confirm button (2) to enter the language options. Press the up button (4) and down button (5) to select your choice of language. Confirm your selection by pressing the confirm button (2).

Available languages are:

Language options	
EN	English
DE	German
FR	French
ES	Spanish
NL	Dutch
PL	Polish
IT	Italian
TR	Turkish
RU	Russian
CS	Czech
BR	Brazilian

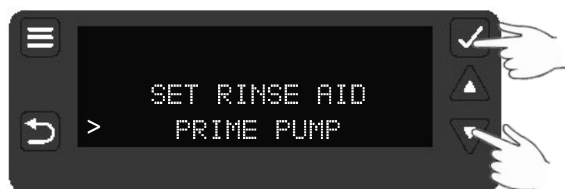
8.3 Chemicals



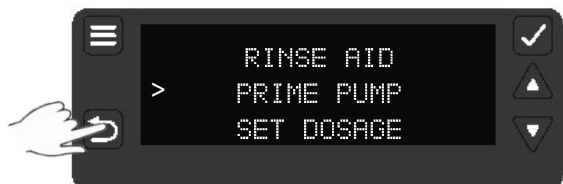
Press the confirm button (2) to enter the chemicals options. Press the up button (4) and down button (5) to select your choice of chemical. Confirm your selection by pressing the confirm button (2).



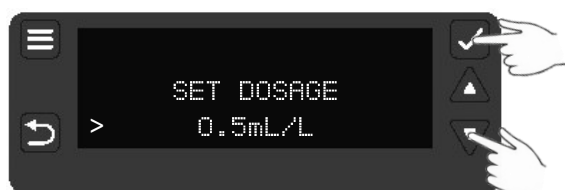
8.3.1 Rinse aid



Press the confirm button (2) to enter the PUMP options. Press the up button (4) and down button (5) to navigate. Confirm your selection by pressing the confirm button (2).



- Selecting PRIME PUMP will activate the pump for a fixed time until you press the back button (7).
- Selecting DOSAGE allows you to change dosage setting in ml/L.



Use the up (4) and down (5) buttons to adjust the rinse aid dose. Units of concentration are displayed in ml/L. Confirm the selection by pressing the confirm button (2). We have set the default at 0.5ml/L.

Minimum: 0.1ml/L. Maximum: 9.99ml/L.

Press the back button (7) to return to the previous menu.

- Selecting SET BOTTLE SIZE will give a rinse aid re-fill reminder based on the rinse aid bottle size. The machine estimates the usage of chemical based on the volume of water the machine has used and the chemical dosage setting. .



By pressing the up button (4) and down button (5), you can set the chemical refill reminder notification to ON. Press the select button (2) to confirm the selection.

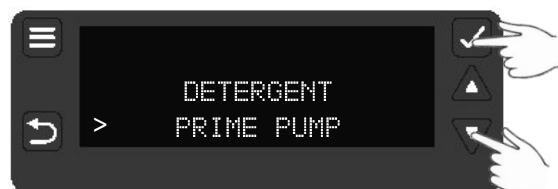
We have set the default to OFF.

Minimum: OFF. Maximum: 30L.



Please note: When the chemical bottle is empty, a reminder will be displayed. It tells you to refill the chemical before running another wash program.

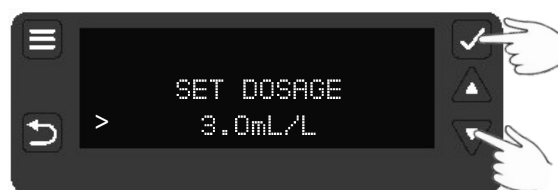
8.3.2 Detergent



Press the confirm button (2) to enter the PUMP options. Press the up button (4) and down button (5) to navigate. Confirm your selection by pressing the confirm button (2).



- Selecting PRIME PUMP will activate the pump for a fixed time until you press the back button (7).
- Selecting DOSAGE allows you to change the dosage in ml/L.



Use the up (4) and down (5) buttons to adjust the detergent dose. Units of concentration are displayed in ml/L. Confirm the selection by pressing the confirm button (2). We have set the default at 3ml/L.

Minimum: 0.1 ml/L. Maximum: 9.99ml/L.

Press the back button (7) to return to the previous menu.

- Selecting SET BOTTLE SIZE will give a detergent re-fill reminder based on the detergent bottle size. The machine estimates the usage of chemical based on the volume of water the machine has used and the chemical dosage setting.



By pressing up button (4) and down button (5), you can set the chemical refill reminder to ON. Press the confirm button (2) to confirm the selection.

We have set the default to OFF.

Minimum: OFF. Maximum: 30L.



Please note: When the chemical bottle is empty, a reminder will be displayed. This tells you to refill the chemical before running another wash program.

Press the back button (7) to return to the previous menu.

8.4 Water hardness



Press the confirm button (2) to enter the water hardness settings. Press the up button (4) and down button (5) to select the water hardness value. Confirm your selection by pressing the confirm button (2). We have set the default at the highest level, 30°DH.

Minimum: 0°DH. Maximum: 30°DH.

Please note: at the minimum setting of 0°DH, the water softener functions are deactivated.



Press the back button (7) to return to the previous menu.

8.5 Alert sound



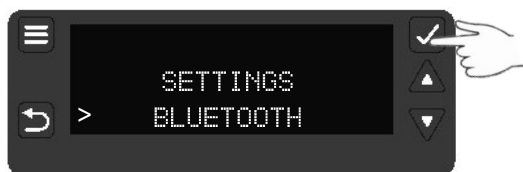
Press the confirm button (2) to enter the ALERT SOUND option. Press the up button (4) and down button (5) to select a value. Confirm your selection by pressing the confirm button (2). We have set the default to OFF.



Please note: This is an audible sound to tell you the cycle has ended.

Press the back button (7) to return to the previous menu.

8.6 Bluetooth



Press the confirm button (2) to enter and confirm the BLUETOOTH setting. We have set the default setting to ENABLE. Bluetooth allows a connection from the machine to our app, which is available on Play Store or Google Play. Through the app, you can review statistical data and machine information.



Press the back button (7) to return to the previous menu.

8.7 Set the wash mode



Press the confirm button (2) to enter the SET WASH MODE settings. Press the up button (4) and the down button (5) to select a wash mode – either glasswasher or dishwasher. Confirm your selection by pressing the confirm button (2).

Please note: Your machine automatically adjusts the temperatures needed for the 2 wash modes.

	Dishwasher	Glasswasher
Wash	60°C/140°F	60°C/140°F
Rinse	82°C/180°F	70°C/158°F



Press the back button (7) to return to the previous menu.

8.8 Change the units



Press the confirm button (2) to enter the CHANGE UNITS settings. Press the up button (4) and the down button (5) to select units in Centigrade C or Fahrenheit F. Confirm your selection by pressing the confirm button (2).



Press the back button (7) to return to the previous menu.

8.9 Service settings

WARNING



These settings can only be accessed by a skilled person. Do not access them or the machine is likely to develop a fault.

Contact Classeq Technical for more information.

"90002057 Engineers Manuals" contains more information on the service settings.

9. Troubleshooting

If you believe the machine is not behaving as expected or has gone into error mode (cycle indicator illuminated red), reset it by switching the machine's mains power supply off and on. Then follow the troubleshooting tips below before requesting a service callout. Our service support number is under Useful contact details (►11).



NOTE

If you make a service call under warranty and we find that the fault(s) are caused by the instructions in this manual not being followed, we'll charge the visit at current rates.

Problem	Possible cause	Solution/check
Machine does not fill.	The machine is still heating the water in the rinse boiler, indicated by the fill/heat indicator flashing amber.	Wait for the heating stage to complete.
Machine has not filled, and the fill/heat indicator has been flashing amber for more than 30 minutes. E12 E13	There is a problem with the water supply. The machine is not turned on. The hood is not closed properly.	Ensure the water supply hose is connected to the machine and has not been trapped or kinked. Ensure the water supply is turned on. Check that the site water supply has not been turned off. Press the on/off buttons. Close the hood.
Machine will not turn on.	There is a problem with the power supply.	Ensure the machine is connected to the mains power supply. Check the power supply outlet is turned on. Check and reset the circuit breaker on the site fuse board. If the fuse or breaker keeps tripping, request a service callout.

Problem	Possible cause	Solution/check
Machine fills slowly. E13	There is a problem with the water supply.	Ensure the water supply is turned fully on. Ensure the water supply hose has not been trapped or kinked. Check that the site water supply has not been turned off. Check that the site water pressure is adequate (►4.9.1).
The machine is over-filling (too much water in the wash tank – visible with the hood open, or water spills out when you open the hood). E16	There is a problem with the site drains system. There is a problem with the machine's control system.	Try to drain the machine (►6.9). If the machine does not drain, stop the machine and check the site drains system. Request a service callout.
The machine is over-filling.	Drain pump failure.	Try to drain the machine (►6.9). If the machine does not drain, stop the machine and request a service callout.
Machine does not heat up.	The machine is not turned on. The machine does not fill.	Check that the indicators and display on the control panel are illuminated. Press the on/off button. Ensure the water supply is fully turned on. Ensure the water supply hose has not been trapped or kinked. Check that the site water supply has not been turned off. Check that the site water pressure is adequate (►4.9.1).
	The machine is still going through its fill/heat cycle.	Check that the fill/heat indicator is flashing amber. Allow enough time for the machine to fill and heat (►6.3).

Problem	Possible cause	Solution/check
Excessive foam in wash tank.	Wrong type of wash and/or rinse aid chemicals.	Check that the wash and/or rinse aid chemicals are commercial warewasher grade. Always use the correct grade of chemicals.
	Wash and/or rinse aid chemical dosing rate is too high.	Check/adjust the dosing rates of the wash and rinse aid chemicals.
	Wash tank is not fully heated.	Check the wash tank temperature on the control panel display.
	Wrong type of prewash.	Do not prewash with soap-based detergent.

Cycle does not start. (The machine has a heat interlock that will delay the start of the wash cycle until all cycle start criteria have been met. When the criteria have been met, the heat indicator will illuminate green, and the cycle should start. If not, check the below items before requesting a service callout.)	The machine is not turned on.	Check that the indicators and display on the control panel are illuminated. Press the on/off button.
	The machine is still going through its fill/heat cycle.	Check that the fill/heat indicator is flashing amber. Allow enough time for the machine to fill and heat (►6.3). Refer to the latest version of the Engineers Manual on our website for full information about temperatures and interlock settings.
	Wash tank is not full.	Ensure the water supply is fully turned on. Ensure the water supply hose has not been trapped or kinked. Check that the site water supply has not been turned off. Check that the site water pressure is adequate (►4.9.1).

Problem	Possible cause	Solution/check
Cycle runs for a long time.	Rinse water is not hot enough.	Your machine has a heat interlock to ensure the rinse is up to temperature. This will extend the wash cycle if the rinse water is too cool. If the rinse water is too cool, the fill/heat indicator will flash amber. Check the rinse tank temperature on the control panel. Refer to the latest version of the Engineers Manual on our website for more information on temperatures and interlock settings.

The machine runs through a full cycle but does not rinse.		You will need to request a service callout to identify the root cause.
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The machine is overflowing. E16	Primary/secondary filters are blocked.	Check the primary/secondary filters. If blocked, remove and clean them thoroughly.
	There is a problem with the site drains system.	Check that the machine's waste hose is not kinked or blocked. Check that the site drain system is not blocked. If the machine continues to overflow, isolate it and request a service callout.

Problem	Possible cause	Solution/check
Poor wash results.	The machine is not being supplied with soft water.	Check the operation of the water softener (external or internal) if fitted. If external, regenerate the water softener. If internal, check/refill the salt reservoir.
	There is a problem with the wash and rinse aid chemicals system.	Check the level of chemicals in the detergent and rinse aid bottles. Ensure the bottle weights and tubes are correctly positioned. Check the chemical dosing rates are correct (►8.3).
	The machine has not been properly cleaned.	Ensure that the machine is regularly cleaned (►7). Check for the presence of beige or black film deposits around the door and door hinges of the machine. This indicates a build-up of growing yeast cells. Check the glasses and renovate them if required.

Problem	Possible cause	Solution/check
The machine does not drain.	Primary/secondary filters are blocked.	Check the primary/secondary filters. If blocked, remove and clean them thoroughly.
	There is a problem with the site drains system.	Check that the machine waste hose is not kinked or blocked. Check that the site drain system is not blocked. Check that the correct drain procedure is being used for the machine type (►6.9).
	The ball in the anti-syphon device is dirty/blocked (pumped drain machines only).	Remove the anti-syphon device cover inside the machine. Gently clean the ball by inserting and agitating a small bottle brush. Flush the ball using a trigger spray bottle with a jet nozzle.
	There is a problem with the machine's control/electrical system.	Isolate the electrical supply to the machine, turn off the water supply and request a service callout.

10. Decommissioning

If you need to remove or decommission your machine, do so in line with local and national regulations.

We recommend you follow these procedures.

10.1 How to flush out the chemical dosing systems

Before removing any chemicals, refer to all safety statements on the chemical bottles for dealing with a spillage.



WARNING

Wear the correct personal protective equipment, eg, gloves and goggles, when handling chemicals. Observe all safety notes and dosing recommendations printed on the packaging.

- Remove the chemical tubes from the chemical bottles.
- Place the ends of the tubes into a container of water.
- Use the commissioning menu to prime the rinse aid and detergent pumps to draw water all the way into the machine.
- Fill and drain the machine to remove any chemical residue.
- Cap the bottles to prevent any spillage.

10.2 How to drain the warewasher

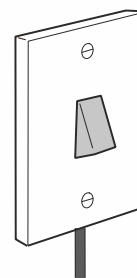
- Fully drain the machine (►6.9).
- Remove the waste hose from the drain standpipe; ensure any spilt liquid is dried before going to the next stage.

10.3 How to disconnect the warewasher

- Turn off the mains electrical supply at the socket, isolator or junction box.

When disconnecting the machine from the mains electrical supply:

- Machines that are hardwired (ie. no plug), must be disconnected in line with local and national regulations. We recommend this is done by a qualified electrician.



- When the electrical supply is disconnected, disconnect the equipotential wire from the stud at the side of the machine.
- Turn off the water supply to the machine and disconnect the water supply hose from the mains water supply. Ensure any spillage is cleared up.

10.4 How to drain the rinse tank/boiler

- Remove the machine's front panel using a Posidrive screwdriver.
- Locate the boiler drainage hose. Ensure it protrudes from the front of the machine.
- Position a container large enough to hold 12L of water so that the hose will drain into it.



WARNING

If the machine is being drained immediately after use, the water draining from the boiler drainage hose may be as hot as **95°C**.

- Remove the spring clip and the drain plug, ensuring the water flows into the container. Once fully drained, replace the drain plug and refit the spring clip.
- Replace the front panel. Ensure all cables and hoses are secured to the machine to prevent tripping hazards. The machine is now ready to be removed.



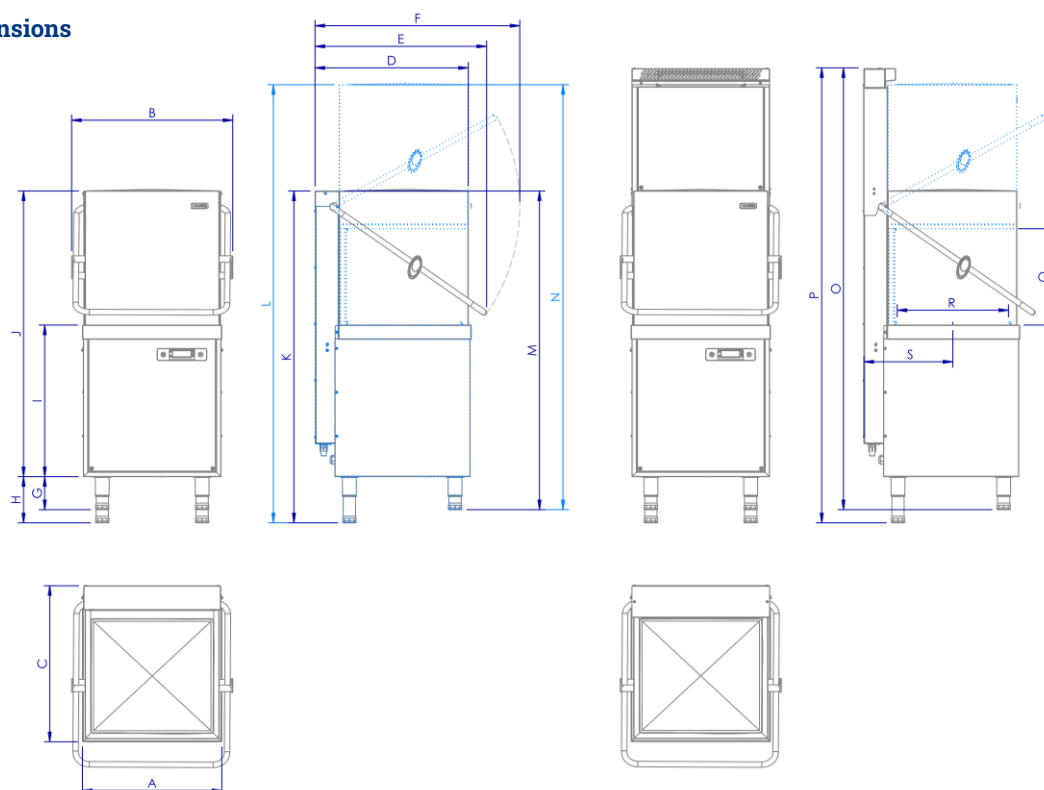
RECYCLING

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

11. Specifications

EN

11.1 Dimensions



	CP500	SR Models
A. Width (mm) ex. handle	635	-
B. Width (mm) inc. handle	734	-
C. Depth (mm) ex. handle	712	-
D. Depth (mm) to hood	698	-
E. Depth (mm) handle (closed)	782	-
F. Depth (mm) handle (max)	933	-
G. Height (mm) of foot (min)	151	-
H. Height (mm) of foot (max)	211	-
I. Base height (mm)	691	-
J. Machine height (mm) (closed – without feet)	1303	-
K. Machine height (mm) – hood closed (min)	1454	-
Machine height (mm) – hood open (min) .L	1939	-
M. Machine height (mm) – hood closed (max)	1514	-
N. Machine height (mm) – hood open (max)	1999	-
O. Machine height (mm) – with SR fitted (min)	-	2015
P. Machine height (mm) – with SR fitted (max)	-	2075
Q. Maximum clear entry height (mm)	440	-
R. Basket ramp width (mm)	505	-
S. Centre of basket ramp (mm)	405	-

11.2 Technical data

Model No.	CP500	CP500-WS	CP500-AS	CP500-AS-WS
Basket size (square basket) (mm)	500	500	500	500
Water supply connection	G¾" (¾"BSP)	G¾" (¾"BSP)	G¾" (¾"BSP)	G¾" (¾"BSP)
Water pressure – min (bar)	2.0	2.0	2.0	2.0
Water flow rate – min (L/min)	4	4	4	4
Water temperature (°C) (min/max)	4 / 55	4 / 55	4 / 55	4 / 55
Drain height floor level (mm)	0-700	0-700	0-700	0-700
Drain size (mm)	Ø40	Ø40	Ø40	Ø40
Operating voltage standard	380-415/ 50/3N	380-415/ 50/3N	380-415/ 50/3N	380-415/ 50/3N
Operating voltage optional	220-240/ 50/1N	220-240/ 50/1N	-	-
Amps required – 1 phase	30A (1)	30A (1)	-	-
Amps required – 3 phase	12A (2) 16A (3)	12A (2) 16A (3)	22A	22A
Rinse boiler heating 380-415/50/3N (kW) 220-240/50/1N (kW)	6 (1) / (2) 9 (3)	6 (1) / (2) 9 (3)	12	12
Total connected load 380-415/50/3N (kW) 220-240 /50/1N (kW)	6.58 (1) / (2) 9.58 (3)	6.58 (1) / (2) 9.58 (3)	12.58	12.58
Maximum racks/hour	40	40	40	40
Maximum number of plates per rack	18	18	18	18
Cycle times (minutes)	1.5 / 3 / 5 / 7	1.5 / 3 / 5 / 7	1.5 / 3 / 5 / 7	1.5 / 3 / 5 / 7
Operating noise level	<70db	<70db	<70db	<70db
Wash tank water temperature (°C)	60	60	60	60
Wash tank heating (kW)	2	2	2	2
Wash tank capacity (L)	28	28	28	28
Rinse boiler temperature	82	82	82	82
Rinse boiler capacity (L)	9	9	12	12
Rinse water consumption (L)	3	3	3	3
Weight – fully loaded (kg)	170	170	173	173
Weight – fully loaded (kg) (SR variants)	200	200	203	203

11.3 National approvals requirements

11.3.1 Watermark

- This appliance complies with WMTS-101 (Cert No. WM-021982).
- The maximum water pressure is 1MPa.

11.3.2 Installation

- The installation shall be in accordance with PCA & AS/NZS3500.1.
- The installation shall include the supplied backflow prevention device (dual check valve).

12. Ordering accessories and supplies

To view and order accessories and supplies for your product, please go to our website.

www.classeq.co.uk

13. Parts and labour warranty

Classeq 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 made inoperative by the effect of a faulty component, for a period of one year, or as specified by the seller 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, eg, water and waste.
- Failure to follow instructions in the manual.
- 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 warewasher, eg, on the switches.
- The cost of replacing any item found to be lost or missing.
- Use of non-compatible cleaning materials.
- Incorrect assembly after cleaning.
- Damage to the warewasher caused by any third party.

Doc No.	90002093
REVISION:	C
DATE:	05/02/2026