

WASHTECH

OPERATOR MANUAL **ALC**



GENERAL WARNINGS



Non-compliance with warnings or failure to follow the instructions in this manual can result in loss of life, severe personal injury and / or serious damage to property.

Before installation, commissioning and / or repair of the machine you must carefully read the safety instructions and warnings and all warning labels attached to the machine.

Hazards can include high surface temperatures, hot water, caustic detergent, sharp edges including broken glass and knives left in the wash chamber, and dangerous electrical voltages.

All service work must be carried out by qualified personnel only who ensure compliance with all local codes and standards including AS/NZS 3500.1.

The electrical supply must be turned off at the wall before accessing the machine for servicing. All electrical terminals must be covered at all times to prevent access to the terminal. Appropriate electrical tests must be carried out after any and all service repairs.

IMPORTANT INFORMATION



Failure to comply even partially with the instructions given in this manual will invalidate the product warranty and relieve the manufacturer of any responsibility. This includes failure to supply the machine with good quality water at suitable pressure as specified.

The alteration of machine operation or design or replacement of parts not approved by the manufacturer may void warranties and approvals.

This machine is intended for commercial use only. It is designed for the cleaning of fresh food waste from cutlery, crockery, glassware, containers and food preparation equipment. Consult the manufacturer regarding suitability for other applications.

No part of the machine is designed to be stepped upon.

This machine is not a waste disposal unit.

It is essential that operating procedures are followed including adequate pre-rinsing or scraping of loose soil or waste from washware before it is placed in the machine, and regular cleaning and maintenance of the machine.

Regular servicing is essential for optimum performance and long machine life. Maintenance by a dishwasher technician is recommended every 6 months or 15,000 cycles to ensure all systems are operating correctly and consumable items – such as chemical squeeze tubes – are replaced prior to degradation of performance and/or failure.

The information contained in this document is checked, reviewed and updated regularly to ensure that it is accurate and relevant to the model described. However, discrepancies and errors can occur. We welcome your feedback.

This document is subject to change without prior notice.

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SAFETY INSTRUCTIONS

Installation

- Use qualified, skilled personnel.
- Follow installation instructions.
- Connect to correct voltage and supply current, and (if applicable for the model) check that the phase rotation is correct.
- Provide fully accessible Electrical Isolation Switch & water supply valves.

Training and Supervision

- Read and Understand the Operating instructions and train all staff.
- This appliance must not be operated by children or infirm persons.
- Machine panels must only be removed by suitably qualified and trained personnel – internal hazards include live electrics and very hot surfaces.
- No part of this appliance is intended for use as a stepladder.

Hot Surfaces

- Some surfaces may be hot or very hot.

Chemicals

- Commercial dishwashing detergents are hazardous – handle with care.
- Read and follow the safety information found on the labels of detergent containers and Material Safety Data Sheets.
- Use protective eyewear and clothing if decanting containers.

Hot Water

- Do not put hands in wash water which may be over 60°C and contain hazardous caustic detergent.
- Rinse water can be over 90°C.
- Door safety switches are designed for emergency use only.

Cleaning

- Do not hose down the machine or splash water over the exterior.
- Watch for broken glass etc. when cleaning the inside of the machine.

Warnings



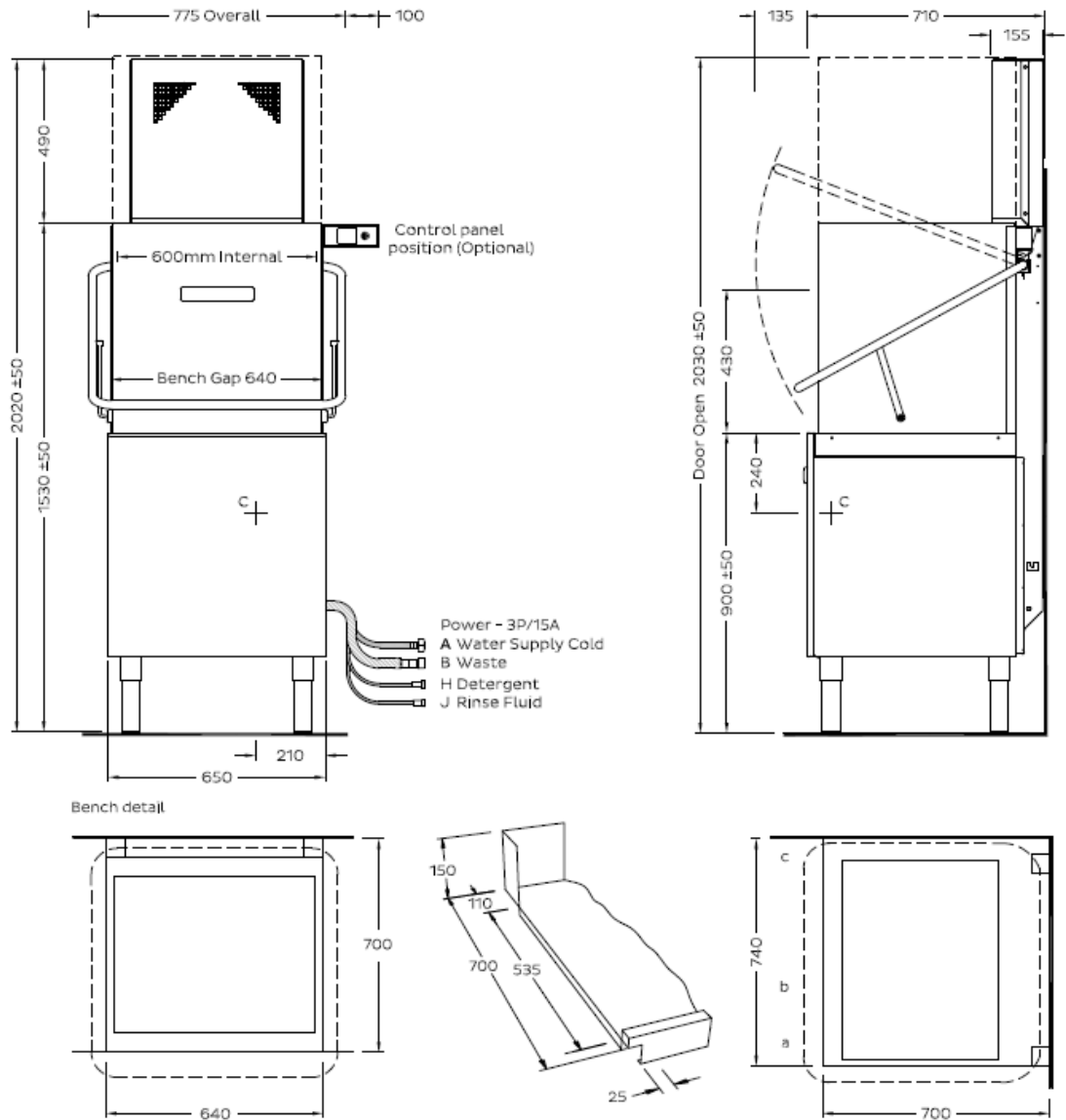
Equipment contains dangerous voltages and can be hazardous if installed or operated incorrectly. Non-compliance with Warnings or failure to follow the instructions contained in this manual can result in loss of life, severe personal injury or serious damage to property.

Installation and servicing must be carried out by a suitably qualified person in compliance with all local codes and standards including AS/NZS 3500.1.

INSTALLATION DIAGRAM

ALC SERIES-5

- Part #: ALC5 INST
- Date: 10/10/2024
- Version: 3-B



Corner Installation Notes:

- Machine can be installed in either direction, subject to suitable positioning of controls
- Allow 300 clearance to front for service access
- Splashback return to be no higher than 150

Touchscreen Control:

- Bracket supplied with controls enables this to be fitted to either side of dishwasher, on the wall, or under the bench.
- Consult operating manual for full details on correct installation.

Services

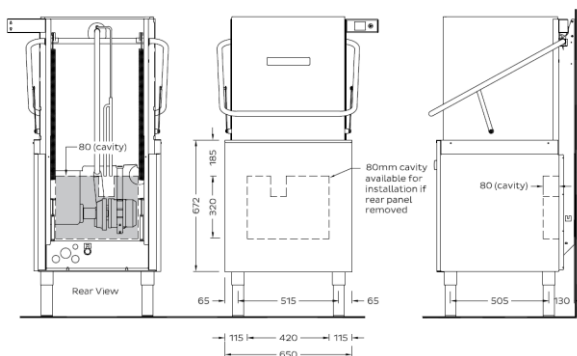
B	Waste - tank drainage point	1.5" BSP	40mm
C	Electrical connection	400-415V, 50Hz, 3P+N+E	15A
D	Cold water <25°C	200-350 kPa	3/4"
H	Detergent		Inlet Tube
J	Rinse Fluid		Inlet Tube

Note: Isolating switch must be within 1m of, and not directly behind the machine. Isolating water valve must be readily accessible

INSTALLATION INSTRUCTIONS

MACHINE POSITIONING

- Unpack machine, check for damage and complete delivery.
 - Install machine on sound waterproof self-draining floor and use adjustable feet to level machine.
- NOTE: Failure to level the machine correctly may result in leaking during the cycle, overflowing from the door sill, poor hygiene through the wash tank not being able to drain correctly, and/or visibly uneven door.
- Install the control pod in the best location for the site and the operator. Mounts supplied enable connection on either side of the machine against the upper rear panels, under the bench next to the machine, or on a wall.
- NOTE: Care needs to be taken with selecting the right position that affords the operator the best display while not impeding operation, and enables a clear and safe routing of the cable.
- Allow room for detergent to one side of machine or in adjacent cupboard. 20 litre container requires approximately W 250mm x D 350mm x H 450 mm, but smaller containers are available from many suppliers.



- Where obstructions exist a 605mm wide front panel can be ordered; however, the upper sill (80mm) is fixed at 650mm wide.
- The drain hose can be routed out either side or the lower rear of the machine.
- The lower rear panel may be removed when installing against a wall.
- A full-length rear panel can be ordered when installing in the open.

INLET WATER

Incoming water should be within the following standard requirements:

- Temperature: <25°C.
 - Connection: 20 mm (3/4" BSP) male – flexible hose supplied.
- NOTE: Flush supply line before connection. Poor quality supply or excessive water hardness may affect performance or damage machine – filtration and/or softening is recommended.
- Flow rate: minimum 10 litres per minute.
 - Pressure: between 100 and 500 kPa.
- NOTE: If water pressure is above 500kPa, fit pressure limiter valve (PLV). Do not use small diameter plastic supply lines.
- Consumption: 2.4 litres per cycle.
 - Backflow prevention: Atmospheric Vacuum Breaker (AVB) fitted standard.

WATER QUALITY REQUIREMENTS

The incoming water should also be within the following parameters:

Hardness	ppm	pH				
min	20	7				
max	100	8				
Ions	Cl ⁻	SO ₄	Fe	Mn	Cu	Cl ₂
Max mg/L	100	400	0.1	0.5	0.05	0.1

- NOTE: Levels above or below the stated requirements can be expected to increase component wear and reduce the expected useful life of the dishwasher. If in doubt, it is best to consult a water specialist and have the incoming water professionally tested and treated if necessary.

INSTALLATION INSTRUCTIONS

POWER

- Electrical supply required is 3P+N+E, 400-415V 50Hz 15A per phase via switched outlet adjacent to machine.



NOTE: Equipment contains dangerous voltages and can be hazardous if installed or operated incorrectly. Non-compliance with warnings or failure to follow the instructions contained in this manual can result in loss of life, severe personal injury or serious damage to property.

CHEMICAL

- This dishwasher is supplied with Detergent and Rinse Fluid injector pumps.
- To connect to chemicals, insert pump inlet hose into container of commercial low foam detergent and rinse fluid.



NOTE: Externally adjustable chemical pumps are fitted and pre-set at an average level, these need to be calibrated on site according to the chemical being used and site-specific conditions such as the water quality and how the machine is being used. Failure to do so may result in excessive dosing which can result in foaming and overflowing, or insufficient dosing which can cause inferior wash results and impact components through a build-up of grease. If in doubt, contact your chemical company for assistance.

NOTE: Commercial detergents can be hazardous – read instructions, store safely and handle with care. Care needs to be taken when changing chemicals, ensuring that the detergent is not accidentally connected to the rinse fluid inlet line.

NOTE: Avoid using excessively chlorinated chemicals along with domestic tablets, both of these can cause damage to machine.

NOTE: If uncertain, please consult a chemical specialist for assistance in selecting the right chemicals and calibrating machine settings to suit this along with your unique site conditions and requirements.

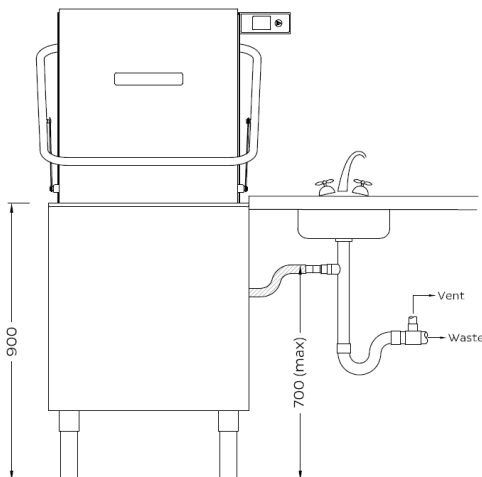
WASTE

- Connect drain pump hose supplied to a vented upstand or sink waste connection.



NOTE: Failure to correctly connect the drain hose and ensure correct plumbing is in place beyond this may result in blockages, backflow from the sink and/or flooding of the machine.

NOTE: Either copper or PVC may be used for the waste connection – PVC is more resistant to some harsh detergents. It is important to note that 90°C rinse water mixes with the 60°C – 65°C wash water before discharge and then flows into the trap where the water is further cooled before entering the drainage plumbing.



- Drain connection should not exceed 550mm of the base of the dishwasher (700mm based on install at a 900mm bench height).
- The drain hose can be routed out either side or the lower rear of the machine.
- Optimal drain hose installation is to a low connection or standpipe that enables a consistent fall from the outlet of the machine (this limits residue remaining the line and extends the useful life of the hose).
- Ensure that the drain hose is not kinked.
- Do not leave the drain hose loosely on the ground as this will damage the hose over time causing premature failure.

INSTALLATION CHECKLIST

- Complete attached Installation Checklist to ensure machine is installed and running correctly, and operator is familiar with operating procedures.

OPERATOR TRAINING

- Ensure operators are aware of the operator procedures along with daily and weekly cleaning requirements.
- Check that they have read and have retained a copy of the Operator Use Guide.

INSTALLATION CHECKLIST

CHECK	NOTES
DELIVERY	
SUPPLIED COMPLETE?	☐ CHECK THERE HAS NOT BEEN ANY TRANSIT DAMAGE
POSITION	
LEVEL AND STABLE?	☐ ON SOUND, WATERPROOF, SELF-DRAINING FLOOR
WATER	
ISOLATOR VALVE FITTED?	☐ ACCESSIBLE, ALL FITTINGS SOUND, AND NO LEAKS
TEMPERATURE CORRECT?	☐ COLD WATER INLET <25°C
PRESSURE CORRECT (200 – 350 kPa)?	☐ LIMITER FITTED IF ABOVE RANGE
FLOW RATE CORRECT (≥ 10L PER MIN)?	☐ FLOW RATE AT OR ABOVE MINIMUM RANGE
QUALITY WITHIN REQUIREMENTS?	☐ FILTER OR SOFTENER IN PLACE IF OUTSIDE REQUIREMENTS
POWER	
ISOLATING SWITCH?	☐ FITTED, FUNCTIONAL AND ACCESSIBLE
CORRECT SUPPLY?	☐ VOLTAGE, CURRENT, CIRCUIT BREAKER ALL CORRECT
WASTE	
CONNECTION TO STANDPIPE/SINK WASTE?	☐ CORRECT CONNECTION TO PLUMBING
CHEMICALS	
	CHEMICAL NAMECONTAINERNO LEAKSPRIMEDCALIBRATED
DETERGENT	
RINSE FLUID	
MACHINE OPERATION	
MACHINE RUNNING CORRECTLY?	☐ MULTIPLE CYCLES RUN, NO ISSUES
CHEMICAL DOSAGE CORRECT?	☐ CORRECTLY FLOWING INTO MACHINE, NO FOAMING
ALL OPERATIONS CORRECT?	☐ FILL LEVEL CORRECT, NO DRAINAGE ISSUES
OPERATOR TRAINING	
ENSURE THAT THE CUSTOMER HAS BEEN GIVEN THE OPERATION MANUAL AND WALL CHART, AND IS AWARE OF THE IMPORTANCE OF BOTH USING AND CLEANING THE MACHINE CORRECTLY.	
START UP	☐
PRE-RINSE AND RACKING	☐ BETTER TO RINSE PLATES THAN REMOVE WASTE FROM MACHINE
MACHINE USE AND CYCLE SELECTION	☐ USE LONG CYCLE WHERE POSSIBLE
DRAINING THE MACHINE	☐ DRAIN THE MACHINE DAILY
SHUT-DOWN AND DAILY CLEANING	☐ CHECK WASH ELEMENTS HAVE COOLED BEFORE CLEANING
WEEKLY MAINTENANCE	☐ FULL MACHINE CLEAN INCLUDING WASH/RINSE ARMS
PLANNED SERVICNG	☐ IMPORTANCE OF HAVING MACHINE SERVICED REGULARLY

INSTALLATION TROUBLESHOOTING

DOOR NOT CLOSING PROPERLY

- Level the dishwasher.

MACHINE NOT STARTING OR FILLING

- Ensure water supply to machine is turned on.
- Ensure power supply to machine is turned on.
- Check that the water inlet hose is not twisted or kinked.

CYCLE TAKING TOO LONG

- This machine ships with Thermostop enabled, which allows a cycle to be started at any time, even if the rinse water is not up to required temperature. To ensure a hygienic result, the wash cycle continues to run until the rinse temperature reaches the required 83°C. Then the machine will begin rinsing and complete the cycle.
- Check inlet water temperature is not too low as per our specifications.
- Check power supply, uprating will increase heating power and reduce recovery times.

POOR WASH RESULTS

- Check that there are adequate pre-rinse processes in place and staff use longer cycle options for more heavily soiled items.
- Ensure high quality non-foaming commercial dishwasher detergent has been connected at the correct dosage for your site, water quality and application. If uncertain, consult a chemical specialist.
- Check that the wash arm is spinning freely and is not being obstructed.
- Ensure that the wash temperature is between 60°C and 65°C.
- Ensure that water quality is adequate. Consult with a water specialist if not.

CHEMICAL RESIDUE AFTER CYCLE

- Check that nothing is obstructing the wash and rinse arms jets and/or rotation.
- Check detergent dosage is within the requirements.
- Check the rinse fluid dosage is not too high. If uncertain, consult your chemical specialist.

DISHWASHER FOAMING

- Check that water pressure and flow rate to the machine are adequate. Insufficient water supply will effectively overdose the chemicals, and compromise the rinse performance.
- Ensure there is no other soap being transferred into the machine from the sink.
- Ensure high quality non-foaming commercial dishwasher detergent has been connected at the correct dosage for your site and application. If uncertain, please consult a chemical specialist.
- Allow wash water to heat to at least 60°C prior to starting the first cycle as some commercial dishwasher chemical will foam at low temperatures.

OTHER UNITS HAVE WATER FILTERS AND/OR SCALE ISSUES

- Due to the high temperatures in dishwashers, scale will build up in the wash tank, on the arms and in the rinse tank. The incoming water should be treated. If uncertain, please consult a water specialist.
- As with combi-ovens, high chloride levels will do irreversible damage to a number of the components inside a commercial dishwasher. The incoming water should be appropriately treated. If uncertain, please consult a water specialist.

CYCLE TIMES NOT SUITABLE FOR ITEMS BEING WASHED

- Some sites may require longer or shorter cycles depending on the items being washed and the soil levels.
- Cycle lengths can be adjusted by a qualified service agent. For adjustment instructions refer to the adjustment section of the service manual for this model.

OPERATOR USE GUIDE

START

- Turn on at wall.
- Ensure the Scrap Tray (1) and Filters (2 & 3) are in place and shut the door.
- Press STANDBY to start the machine, it will begin to fill and heat automatically.
- Screen will advise progress and change to blue when wash and rinse up to temp.



OPERATION

- Load rack into the machine and shut door.
- Select Light, Medium, or Heavy cycle option and press start button.
- Machine will advise operation and progress while cycle is running.
- Screen will revert back to home screen once cycle has been completed.

NOTE: Your dishwasher includes a number of advanced functions to provide ease of use:

- Wash Interlock: When active, this delays the start of a cycle until the wash temperature has been heated to a suitable level to ensure cleanliness and avoid foaming in the wash tank. The cycle screen will display Heating and auto-start the wash cycle once ready.
- Thermostop: When active, thermostop allows the machine may be started while the rinse water is being heated – the machine will continue to run the wash cycle until the rinse water is up to temperature.

SHUT DOWN - EVERY NIGHT

- Close the door, press the Drain/Standby and then press the Start button.
- Your dishwasher will run a self-cleaning cycle, completely drain and then turn itself off.
- Once the machine is in Standby and has cooled down remove and rinse Scrap Tray (1), Wash Inlet Filter (2) and Drain Filter Basket (3)
- Check and clear any waste from inside the drain sump and there is no other residue or build-up elsewhere in the machine.
- Replace Wash / Drain Filter back into machine.

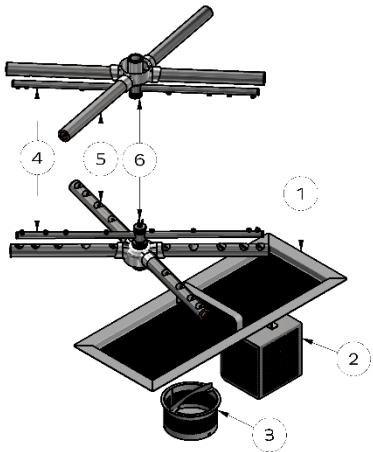
CLEANING – AT LEAST ONCE A WEEK

Remove, rinse and replace when machine has cooled down:

Scrap Tray (1)	Wash Inlet Filter (2)
Drain Filter Basket (3)	Thumbscrew (6)
Rinse Arms (4)	Wash Arms (5)

Unscrew thumbscrew (6) to remove Rinse (4) and Wash (5) Arms. Inspect and clear all jets in the arm using a small object such as a toothpick where necessary to remove any blockages prior to rinsing.

Check wash element once cool and clean if necessary.



SUGGESTED BEST PRACTICE

Pre-rinse	Scrape and/or rinse trays, plates & glasses in cool water.
Chemical	Use a good quality non foaming commercial detergent and drying agent – do not use domestic detergents which will cause the machine to foam. Do not use domestic tablets or excessively chlorinated chemicals.
Servicing	Commercial dishwashers should be serviced at least every 6 months or 15,000 cycles.

OPERATOR TROUBLESHOOTING

ISSUE	CAUSE										
	POOR PRE-SCRAPING	CARRY OVER OF SOAP FROM SINK	OVERLOADING RACKS	INADEQUATE MACHINE CLEANING	INSUFFICIENT WATER PRESSURE/FLOW	INSUFFICIENT WASH TEMPERATURE	WASH/RINSE JETS BLOCKED	WASH/RINSE ARMS NOT ROTATING	DETERGENT DOSAGE LOW/HIGH*	RINSE FLUID DOSAGE LOW/HIGH*	POOR WATER QUALITY**
DISHES NOT CLEAN	●		●	●			●	●	●		■
STAINING	●						●	■	●		■
FOAMING		●		■	●	●			■	■	
PROTEIN BLOOM	■		■	●			■	■	■		
DIRTY MACHINE	●			●			■	■	■		■
FOOD RESIDUE ON WARE	■		●	■			■	■	●		
FILM/SPOTS ON WARE			■	■	●		■	●	●		■
DETERGENT RESIDUE					●		■	●	●		
GREASY FILM/NO FIZZ			■							●	■
HIGH DETERGENT USE				■					●		
HIGH RINSE FLUID USE				■						●	
WET WASHWARE			●	■		●				●	
SCALE BUILD UP IN MACHINE				●					■		●
FILTERS ON OTHER EQUIPMENT											●

● Likely cause ■ Possible cause

* For issues most likely due to incorrect chemical dosages or other chemical issues, we recommend you consult your chemical supplier and/or a local chemical expert prior to calling in a dishwasher technician.

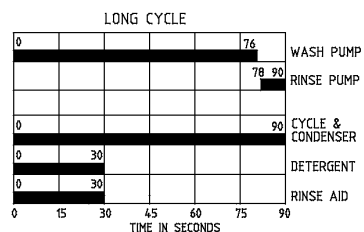
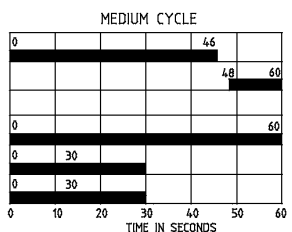
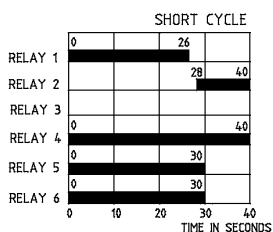
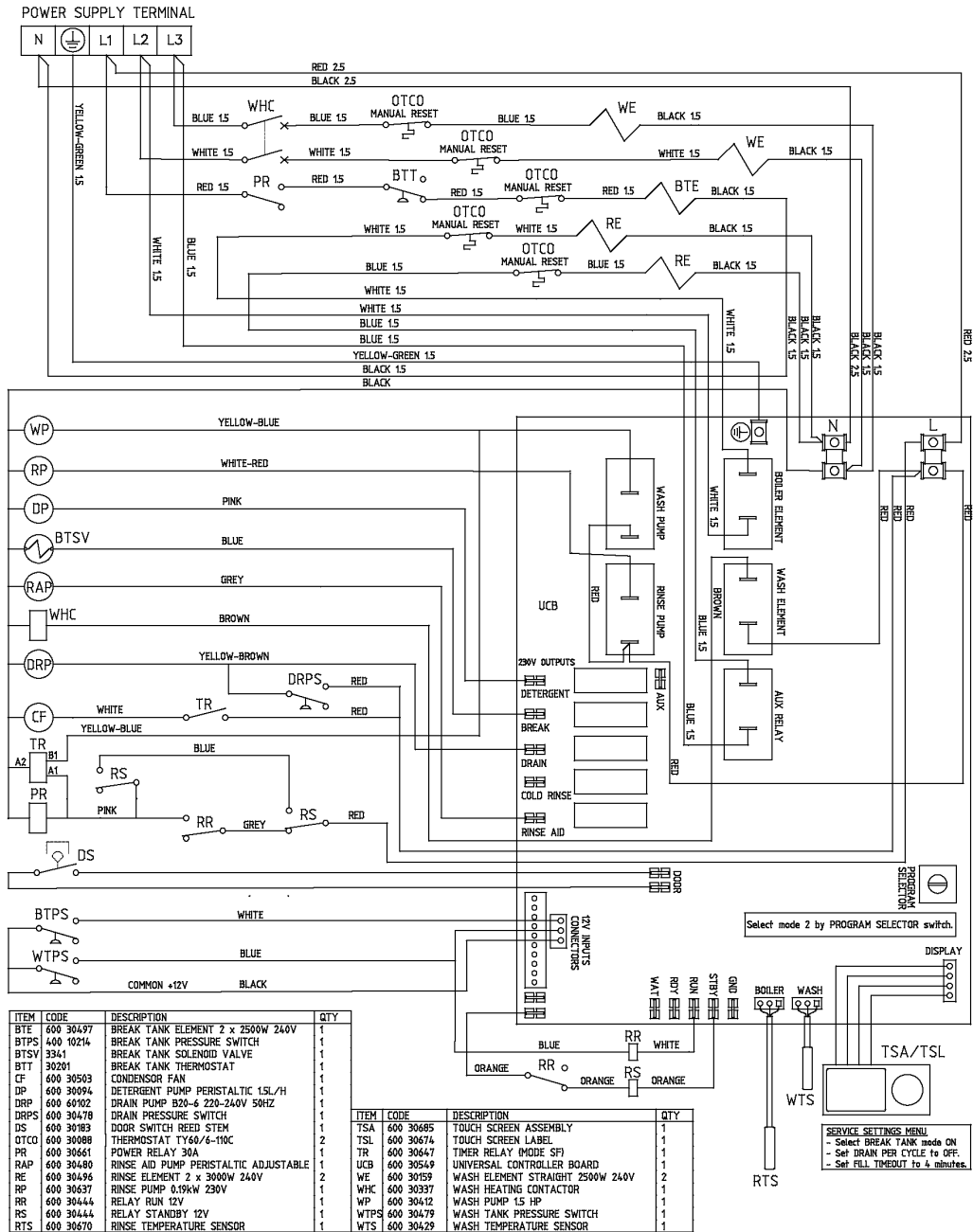
** For issues that are likely due to poor water quality (scale building up, filters being required on other kitchen equipment etc.), we recommend you consult a local water specialist prior to calling in a dishwasher technician.

IF PROBLEMS PERSIST CONTACT YOUR LOCAL SERVICE AGENT

SCHEMATIC DIAGRAM

ALC SERIES-5

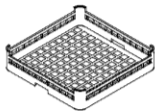
- Part #: 010401
- Date: 16/12/2024
- Version: 1-C



ACCESSORIES

ALC SERIES-5

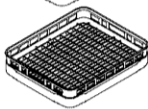
- Part #: ALC ACS
- Date: 22/06/2023
- Version: 1-A



600 70029
CUPRACK CB 500mm X 75mm high



600 70042
TRAYRACK GN 600mm x 500mm



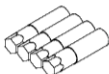
600 70043
RACK GREY BASE 500x600mm



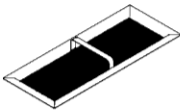
C660503
CUTLERY CONTAINER G



C660508
CUTLERY BASKET CP8 for 500mm



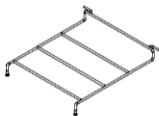
600 90154
SS LEG 63 D x 225 - 325mm x M12



328 10003
M2 SCRAP TRAY ASSEMBLY



600 90080
2M S/S HOSE



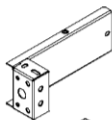
303 10010
XP(4) RACK SLIDE ASSEMBLY



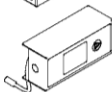
304 10026
WASH INLET FILTER



400 10437
DRAIN INLET FILTER



306 10012
HEADS UP DISPLAY MOUNTING BRACKET ASSEMBLY



306 10013
HEADS UP DISPLAY ASSEMBLY

SPARE PARTS

DESCRIPTION

PART

CABINET & DOOR

• Door	305 10017
• Door Handle	304 10037
• Door Springs	326 30019
• Front Panel	306 20008
• Lower Rear Panel	303 24004
• Rear Full-Size Panel	306 20007
• HUD Display Assembly	306 10013
• HUD Mounting Bracket Assembly	306 10012

CONTROLS & INDICATOR

• Digital Temperature Sensor 500mm	600 30429
• Digital Temperature Sensor 1800mm	600 30670
• Door Reed Switch	600 30183
• Electronic Controller Kit	KIT0440124
• Pressure Switch Break Tank	400 10214
• Pressure Switch Drain	600 30478
• Pressure Switch Wash	600 30479
• Terminal Strip 3 Way	3227

HEATING COMPONENTS

• Break Tank Assembly	400 10475
• Break Tank Element 5 kW	600 30497
• Over Temperature Thermostat	600 30088
• Rinse Element 6 kW	600 30496
• Rinse Tank Assembly	306 10015
• Wash Element 2.5 kW	600 30634

HEAT RECOVERY SYSTEM

• Condenser Coil	400 10465
• Condenser Fan	600 30503

HOSES

• Detergent Hose	600 30148
• Pressure Switch Hose	3067
• Rinse Hose	600 60073
• Wash Pump Inlet Hose	C200359
• Wash Pump Outlet Hose	61941
• Lower Wash Tee Hose	6195
• Drain hose	600 60105
• Drain Pump Inlet/Outlet Hose	6196

SPARE PARTS

DESCRIPTION	PART #
PUMPS & SOLENOIDS	
• AVB	600 60053
• Detergent Pump	600 30094
• Detergent Squeeze Tube	600 30134
• Drain Pump	600 60102
• Rinse Aid Pump	600 30480
• Rinse Pump	600 30637
• Solenoid Valve	3342
• Wash Pump	600 30412
WASH TANK COMPONENTS	
• Drain Filter Basket Assembly	400 10437
• Rack Slide Assembly	303 10010
• Rinse Arm Assembly	400 10239
• Rinse Arm Thumbscrew	C261004
• Rinse Arm Thumbscrew Spring	C450218
• Scrap Tray	328 10003
• Wash Arm Assembly	400 10077
• Wash Arm Locknut	C280409
• Wash Pump Inlet Filter	352 10026
• Wash & Rinse Spindle	400 30362

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