

STARLINE
by **WASHTECH**

OPERATOR MANUAL
M2C



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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CONTENTS

2. General Warnings
3. Contents
4. Safety Instructions
5. Installation Diagram
6. Installation Instructions
7. Installation Instructions
8. Installation Checklist
9. Installation Troubleshooting
10. Operator Use Guide
11. Operator Troubleshooting
12. Schematic Diagram
13. Accessories
14. Spare Parts List
15. Spare Parts List



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



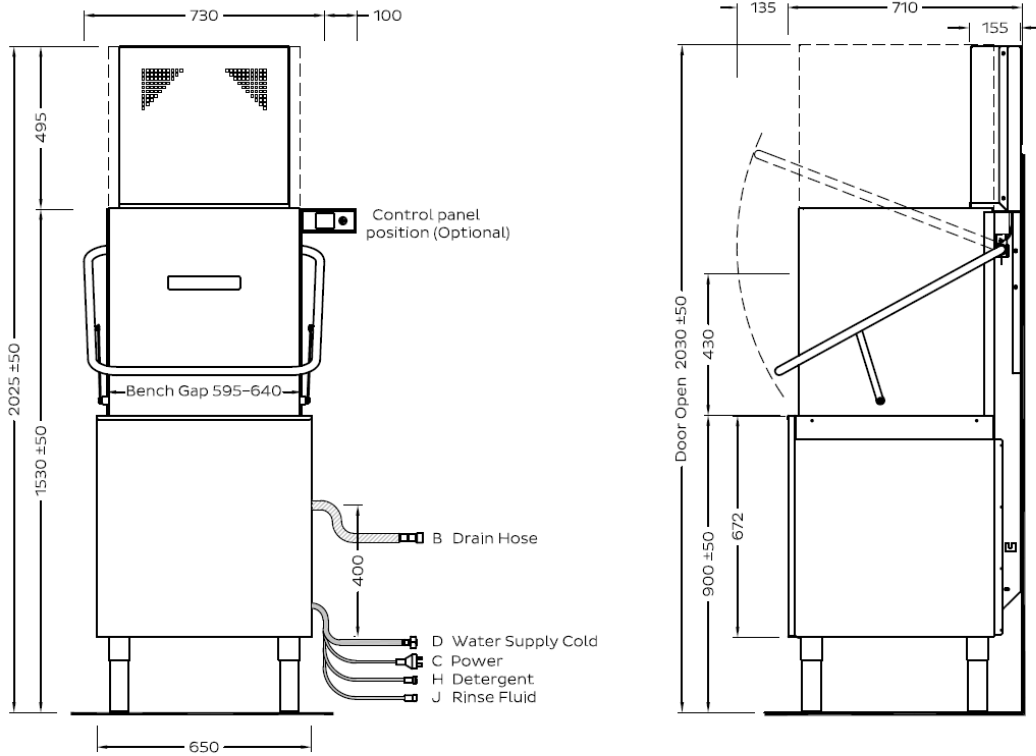
Equipment contains dangerous voltages and can be hazardous if installed or operated incorrectly. Non-compliance with Warnings or failure to follow the instructions contained in this manual can result in loss of life, severe personal injury or serious damage to property.

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.

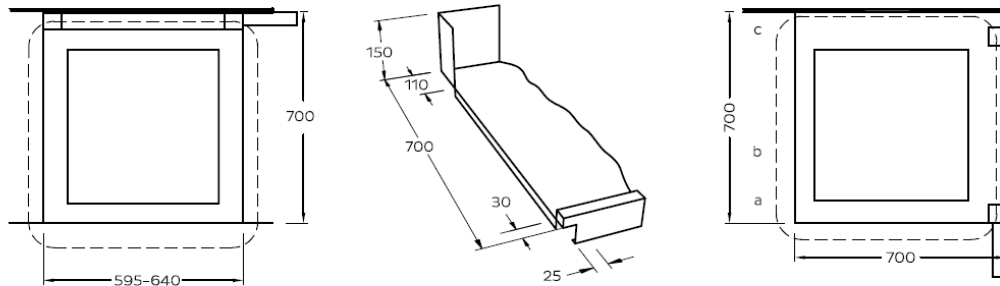
INSTALLATION DIAGRAM

M2C SERIES-5

- Part #: M2C-5 INST
- Date: 30/05/2024
- Version: 3-B



Bench detail



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

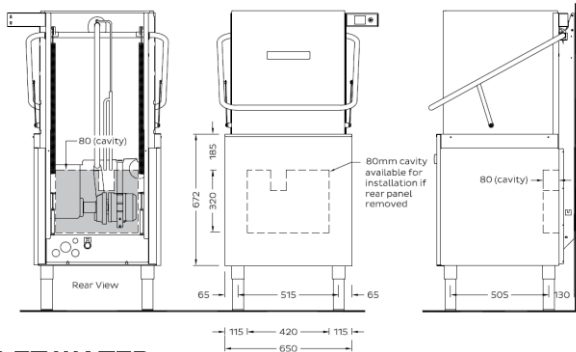
MACHINE POSITIONING

- 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: 65°C.



NOTE: Low temperatures will increase the recovery time between cycles and depending on the chemical being used, may result in excessive foaming if the machine is started before the wash water is up to a suitable temperature.

NOTE: Excessively high temperatures may damage the solenoid which can result in flooding should this component fail. High temperature solenoids are available and can be retrofitted if necessary.

- 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 20 litres per minute.
- Pressure: between 200 and 350 kPa.
NOTE: If water pressure is above 350kPa, fit pressure limiter valve (PLV). Do not use small diameter plastic supply lines.
- Consumption: Approximately 2.6 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 15A 230-240V 50Hz via switched outlet adjacent to machine.
- Easily upgradeable to single phase 25A 230-240V 50Hz.
- Easily upgradeable to three phase 15A 400-415V 50Hz.



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.

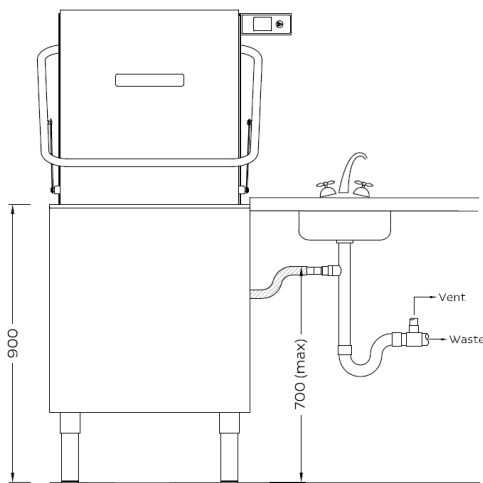
WASTE

- 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?	<input type="checkbox"/> CHECK THERE HAS NOT BEEN ANY TRANSIT DAMAGE				
POSITION					
LEVEL AND STABLE?	<input type="checkbox"/> ON SOUND, WATERPROOF, SELF-DRAINING FLOOR				
WATER					
ISOLATOR VALVE FITTED?	<input type="checkbox"/> ACCESSIBLE, ALL FITTINGS SOUND, AND NO LEAKS				
TEMPERATURE CORRECT?	<input type="checkbox"/> HOT WATER INLET 65°C				
PRESSURE CORRECT (200 – 350 kPa)?	<input type="checkbox"/> LIMITER FITTED IF ABOVE RANGE				
FLOW RATE CORRECT (≥ 20L PER MIN)?	<input type="checkbox"/> FLOW RATE AT OR ABOVE MINIMUM RANGE				
QUALITY WITHIN REQUIREMENTS?	<input type="checkbox"/> FILTER OR SOFTENER IN PLACE IF OUTSIDE REQUIREMENTS				
POWER					
ISOLATING SWITCH?	<input type="checkbox"/> FITTED, FUNCTIONAL AND ACCESSIBLE				
CORRECT SUPPLY?	<input type="checkbox"/> VOLTAGE, CURRENT, CIRCUIT BREAKER ALL CORRECT				
WASTE					
CONNECTION TO STANDPIPE/SINK WASTE?	<input type="checkbox"/> CORRECT CONNECTION TO PLUMBING				
CHEMICALS					
	CHEMICAL NAME	CONTAINER	NO LEAKS	PRIMED	CALIBRATED
DETERGENT	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RINSE FLUID	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MACHINE OPERATION					
MACHINE RUNNING CORRECTLY?	<input type="checkbox"/> MULTIPLE CYCLES RUN, NO ISSUES				
CHEMICAL DOSAGE CORRECT?	<input type="checkbox"/> CORRECTLY FLOWING INTO MACHINE, NO FOAMING				
ALL OPERATIONS CORRECT?	<input type="checkbox"/> 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	<input type="checkbox"/>				
PRE-RINSE AND RACKING	<input type="checkbox"/> BETTER TO RINSE PLATES THAN REMOVE WASTE FROM MACHINE				
MACHINE USE AND CYCLE SELECTION	<input type="checkbox"/> USE LONG CYCLE WHERE POSSIBLE				
DRAINING THE MACHINE	<input type="checkbox"/> DRAIN THE MACHINE DAILY				
SHUT-DOWN AND DAILY CLEANING	<input type="checkbox"/> CHECK WASH ELEMENTS HAVE COOLED BEFORE CLEANING				
WEEKLY MAINTENANCE	<input type="checkbox"/> FULL MACHINE CLEAN INCLUDING WASH/RINSE ARMS				
PLANNED SERVICNG	<input type="checkbox"/> IMPORTANCE OF HAVING MACHINE SERVICED REGULARLY				

	°C
	kPa

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

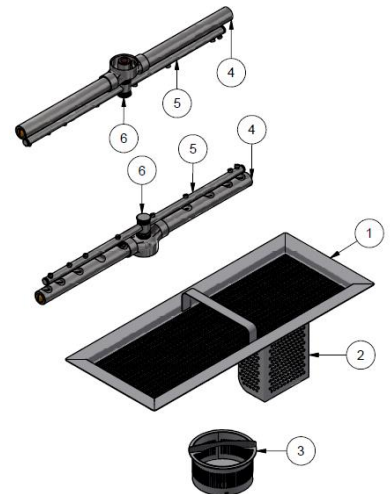
Remove, rinse and replace when machine has cooled down:

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

Unscrew thumbscrew (6) to remove Wash (4) and Rinse (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.

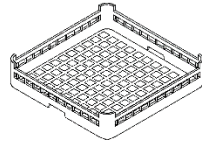
** For issues that are likely due to poor water quality (scale building up, filters being required on other kitchen equipment etc.), we recommend you consult a local water specialist prior to calling in a dishwasher technician.

IF PROBLEMS PERSIST CONTACT STARLINE SERVICE ON 0800 STARLINE

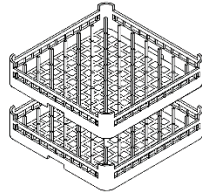
ACCESSORIES

M2 SERIES-5

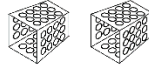
- Part #: M2C-S ACS
- Date: 05/07/24
- Version: 1-A



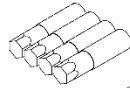
600 70029
CUPRACK CB 500mm X 75mm high



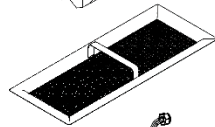
600 70028
DISHRACK P12/18 500mm 18 DISH



C660503
CUTLERY CONTAINER G



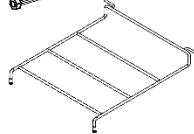
600 90154
SS LEG 63 D x 225 - 325mm x M12



328 10003
M2 SCRAP TRAY ASSEMBLY



600 90080
2M S/S HOSE



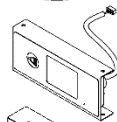
303 10010
XP(4) RACK SLIDE ASSEMBLY



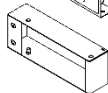
303 20045
WASH INLET FILTER



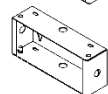
400 10437
DRAIN INLET FILTER



306 10013
WING MIRROR FRONT ASSEMBLY



306 11001
WING MIRROR MOUNTING BRACKET ASSEMBLY



306 11002
WING MIRROR WALL BRACKET ASSEMBLY



400 90243
PLASTIC OVERFLOW JET CAP
(SUPPLIED IN A BAG ATTACHED TO DRAIN PUMP)

SPARE PARTS

DESCRIPTION

PART

CABINET & DOOR

• Door	303 10007
• Door Handle	303 10037
• Door Springs	326 30019
• Front Panel	306 20008
• Lower Rear Panel	303 24004
• Lower Rear Security Panel	303 24009
• Rear Full-Size Panel	306 20007
• Wing Mirror Control Panel Assembly	306 10013
• Wing Mirror Mounting Bracket	306 20034
• Wing Mirror Wall Mounting Bracket	306 20032

CONTROLS & INDICATOR

• Digital Temperature Sensor 500mm	600 30429
• Digital Temperature Sensor 1000mm	600 30430
• Door Reed Switch	600 30183
• Electronic Controller Kit	KIT0440067
• Pressure Switch Break Tank	400 10214
• Pressure Switch Drain	600 30478
• Pressure Switch Wash	600 30479
• Terminal Strip 5 Way	3229

HEATING COMPONENTS

• Over Temperature Thermostat	600 30088
• Rinse Element 5 kW	600 30497
• Rinse Tank Sub-Assembly	400 10475
• Wash Element 2.5 kW	600 30226

HEAT RECOVERY SYSTEM

• Condenser Coil	400 10465
• Condenser Fan	600 30503

HOSES

• Detergent Hose	600 30148
• Drain hose	600 60105
• Drain Pump Inlet/Outlet Hose	6196
• Lower Wash Tee Hose	6196
• Pressure Switch Hose	3067
• Rinse Hose	600 60073
• Wash Pump Inlet Hose	6194
• Wash Pump Outlet Hose	6195

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 30299

WASH TANK COMPONENTS

• Drain Filter Assembly	400 10437
• Rack Slide Assembly	303 10010
• Rinse Arm Assembly	400 10239
• Rinse Spindle	400 30398
• Scrap Tray	328 10003
• Wash Arm Assembly	326 10030
• Wash Arm Spindle	400 30072
• Wash Spindle Nut	400 30397
• Wash Pump Inlet Filter	303 20045

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