Operator Manual





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WARNING

Before installation and commisioning, you must read the safety instructions and warnings carefully and all the warning labels attached to the equipment.

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IMPORTANT

Failure to comply (even partially) with the instructions given in this manual will invalidate the product warranty and relieves the manufacturer of any responsibility



IMPORTANT

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



IMPORTANT

This machine is intended for commercial use only.

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We have checked that the contents of this document correspond to the model described. There may be discrepancies nevertheless, and no guarantee can be given that they are completely identical. The information contained in this document is reviewed regularly and any necessary changes will be included in the next edition. We welcome suggestions for improvement.

Specifications and document subject to change without prior notice.

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Safety Instructions

WARNING



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

- · Use qualified, skilled personnel
- Follow installation instructions
- Connect to correct voltage and supply current
- 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
- This appliance is not 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

Service/repair

- · Under no circumstances the user should attempt to carry out repairs
- · All service/repair work must be carried out by qualified personnel only

Installation Checklist



WARNING

Installer must be suitably qualified and ensure compliance with all codes and standards including AS/NZS3500.1.

Unpack

· Unpack the machine, check for damage and complete delivery.

Positioning

- · Place machine on sound waterproof self draining floor and adjust feet to level
- · Allow room for adjacent chemical containers

Water

- Flush supply lines before connection
- · Connect hose supplied to adjacent accessible isolator valve 20 mm 3/4 male
- Flow rate required 15 litres per minute
- Temperature Less than 20°C
- Consumption per cycle 2.6 litres
- Pressure required 200-350 kPa fit limiter above this pressure
- Back Flow Dual Check Valve (DCV)
- Potable water quality is required filter or soften if necessary

Water Quality Requirements

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

Power

Three phase 15 A per phase 400V 50Hz

Waste

· Connect drain pump hose supplied to vented upstand or sink waste connection

Detergent

- Insert hose into container of commercial dishwasher low foam detergent
- · Adjust detergent dosing and prime detergent using the keypad (refer to page 7)
- Use good quality chemicals and regularly check containers

Rinse Fluid

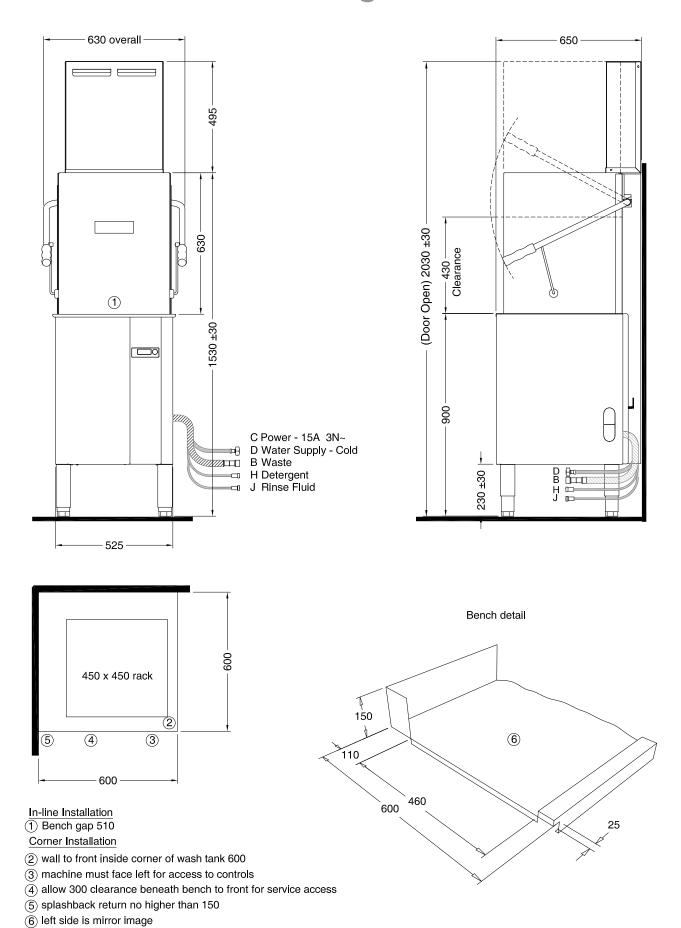
- Insert hose into container of commercial dishwasher rinse fluid
- Adjust rinse fluid dosing and prime rinse aid using the keypad (refer to page 7)
- · Use good quality chemicals and regularly check containers

Operation

Run several cycles, ensure that operator has read and understands instructions

Troubleshooting Installation

• If machine doesn't fill after switching on power, check & ensure that hot water supply tap is open, water supply pressure is not below specification.



M1C Operating Instructions



START

- Turn on at wall
- Ensure the Filter (2) is in place
- Ensure the Upstand (1) is in place and shut door
- Press Power button for 3 seconds to turn machine on and begin the fill cycle

OPERATION

- Select cycle using Up/Down buttons (use the Heavy cycle whenever possible)
- Press Start button (once this is Green or Orange) to begin washing
- Timer counts down to 00 then resets after door is opened

START BUTTON COLOURS

Red = cycle is running

▶ Green = rinse water is up to temperature

Purple = dooris open

Orange = machine is heating

▶ Blue = power saving mode

NOTE: The machine may be started while Orange light is on and while rinse water is being heated and the timer will pause at 22 seconds until rinse water is up to 83 degrees

SHUT DOWN - EVERY NIGHT

- Select Drain cycle via Up or Down buttons
- Remove drain Upstand (1) and shut door
- When Drain cycle is finished after 100 seconds, remove lower wash arm (3), scrap tray (6) and scrap cover (5)
- Remove and rinse wash filter (2) before replacing back in machine along with upstand (1)
- Replace scrap cover (5), scrap tray (6) and lower wash arm, then close hood

CLEANING - AT LEAST ONCE A WEEK

Remove, rinse and replace:

Upstand 1
Wash Filter 2
Wash/Rinse Arms 3
Thumbscrews 4
Scrap Cover 5
Scrap Tray 6

Inspect and clear all jets in the wash/rinse arm.

NOTE: The wash filter (2) is to be removed by lifting directly upwards and clipped back into place by pressing down. Take care not to turn as this can unscrew the wash/drain sump.

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SUGGESTED BEST PRACTICE

- Pre-rinse Scrape and/or rinse plates and glasses in cool water
- Chemical Use good quality non foaming commercial detergent and drying agent Do not use domestic detergent which will cause the machine to foam

User Programming

The **User Settings** menu is accessed by pressing the UP and DOWN keys simultaneously for 5 seconds, the screen should then change to:



Press the POWER button to scroll between settings.

Press the UP and DOWN keys to change a specific setting,

Press the START button to return to the operator screen.

The programming options are specified in the table below:

User Settings	Factory Setting	Selection
Power Save	ON	ON/OFF
Detergent Prime	OFF	ON/OFF
F-Detergent Injection Time	40	0 - 180 secs
W-Detergent Injection Time	15	1 - 30
RInse Aid Prime	OFF	ON/OFF
W-Rinse Aid Time	12	1 - 30
Display Contrast	27	10 - 40

Power Save function reduces the rinse temperature setting by 10°C when the machine is idle for 5 minutes or more. The temperature settings return to the set value when door is opened or START/STOP key is pressed.

Detergent Prime function allows manual operation of the detergent pump to fill the detergent hose with chemicals. Press UP key to switch the detergent pump on, DOWN key to switch the pump off. If the detergent pump is turned on and left running, it will stop automatically after 1 minute of operation.

F-Detergent Time controls the operation time of the detergent pump during the fill of the wash tank. The factory settings for passthrough models – 80 seconds.

W-Detergent Time sets the injection time of the detergent pump at the beginning of each wash cycle. Ex-factory setting is 15 seconds as board default.

Rinse Aid Prime function allows manual operation of the rinse aid pump to fill the rinse aid hose with chemicals. Press UP key to switch the rinse aid pump on, DOWN key to switch the pump off. If the rinse aid pump is turned on and left running, it will stop automatically after 1 minute of operation.

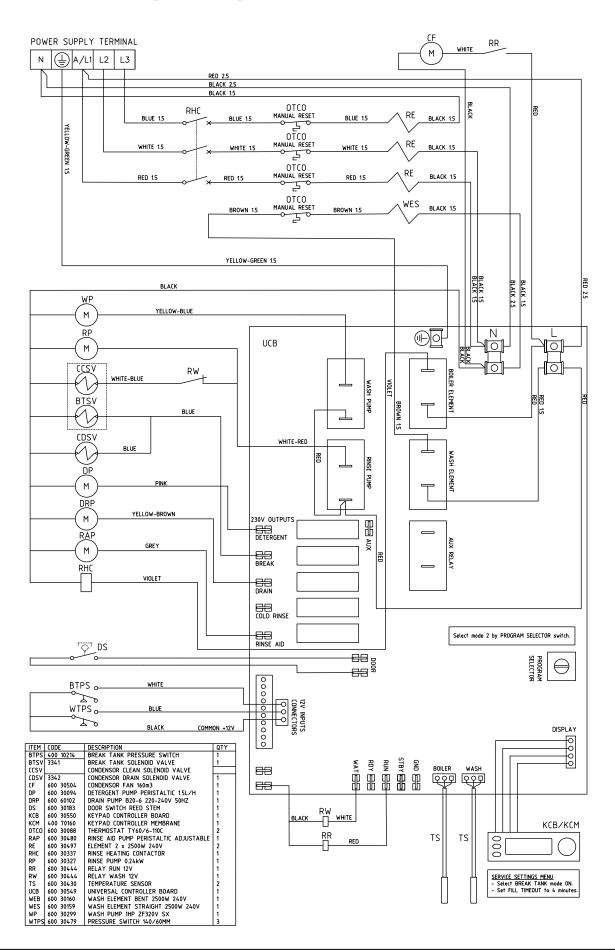
W-Rinse Aid Time controls the injection time of the rinse aid peristaltic pump. The rinse aid pump is set to operate at the beginning of each wash cycle. Ex-factory setting is 12 seconds as board default.

Troubleshooting

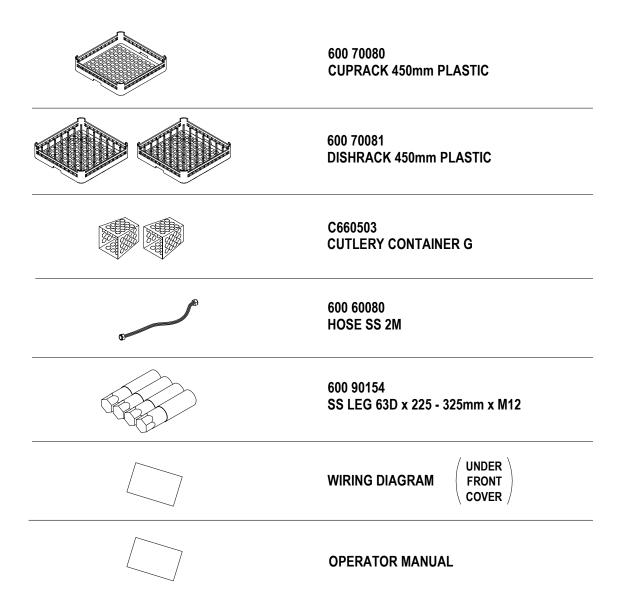
If an error message appears on the control display first try turning the machine OFF for 30 seconds and then back ON - If the error message remains call for service.

Issue Error 7	Resolution Fill failure - check drain upstand is fitted & water supply is turned on and good flow rate.		
Error 8	Drain failure - check drain upstand is removed & drain hose is not kinked or blocked		
Not Filling	Check water supply is on and door is closed		
Refills During Wash	Check drain upstand is fitted		
Cycle Does Not Start	Check door is closed		
Foaming Wash	Excessive use of rinse fluid and/or low wash temperature can cause foaming		
Poor Results	Read and carefully follow the machine installation, operating and care procedures		
	All of the following is actually in the instructions on previous pages of this manual		
	Pre-scrap and pre-rinse washware Do not overload dishracks - avoid overlap of plates, wash cutlery unsorted, handles up Use quality low foam detergent and rinse fluid - check containers and adjustment Use heavy cycle - Baked on soil requires pre-scraping and/or pre-soaking Remove and check wash & rinse arms & jets are clean and arms rotate freely If plates are not pre-rinsed wash water may need changing regularly Check wash and rinse temperatures Remove rack when cycle ends and leave on bench a few minutes for drying		

M1C Wiring Diagram



Accessories



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