PW1

FRONT LOADING WAREWASHER OPERATOR MANUAL





Warnings



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

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.

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

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

Important Information



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

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

This machine is intended for commercial use only.

This machine is designed for the cleaning of fresh food waste from crockery, cutlery, containers and food preparation and manufacturing equipment. Consult the manufacturer regarding suitability of the machine for other applications. It is not a waste disposal unit, and it is essential that significant loose soil or waste is removed from washware by pre-rinsing or scraping, before it is placed in the machine.

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.

Document 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 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.

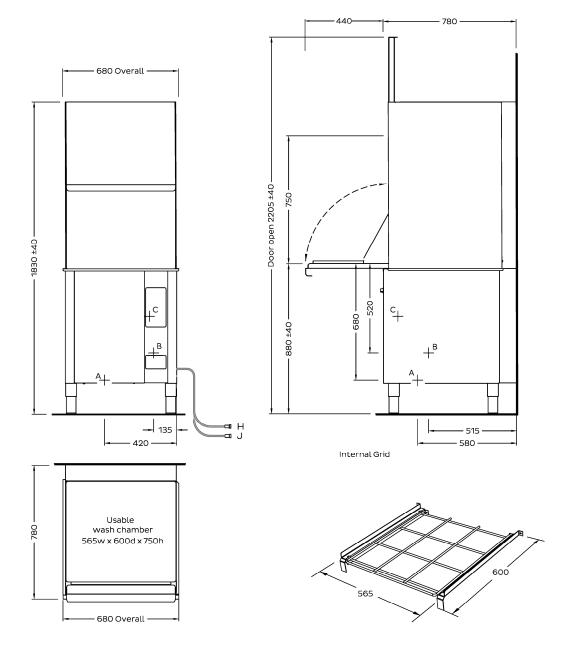
Installation and servicing must be carried out by a suitably qualified person in compliance with all local codes and standards including AS/NZS 3500.1.

Installation Diagram

PW1 Installation Diagram

Part #: SPW10020Date: 12/02/2019

• Version: 3-B



Services

A Hot water 65°C

B Waste - tank drainage point

C Electrical connection

J Rinse Fluid

200-350 kPa 1.5" BSP

400-415V, 50Hz, 3P-N+E~ 25A Tube\filter

ıbe\filter

3/4"

40mm

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

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.

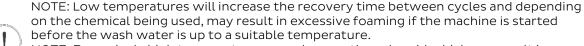


 Allow room for detergent to one side of machine or in adjacent cupboard. 20 litre container requires approximately W 250mm x D 350mm x H 450 mm, but smaller containers are available from many suppliers.

Inlet Water

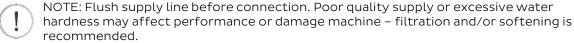
Incoming water should be within the following standard requirements:

• Temperature: 65°C.



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.



- Flow rate: minimum 5 litres per minute.
- Pressure: between 200 and 350 kPa.
 - NOTE: This machine is equipped with a rinse booster pump as standard and does not rely on incoming water pressure to drive the rinse cycle.

 NOTE: If above 350kPa fit pressure limiter valve (LPV). Do not use small diameter plastic

NOTE: If above 350kPa fit pressure limiter valve (LPV). 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 | | рН | | | |
|----------|-----|--------|-----|-----|------|--------|
| min | 20 | | 7 | | | |
| max | 100 | | 8 | | | |
| lons | 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.

Power

• Electrical supply required is 3p/25A 400V 50Hz 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.

Installation Instructions

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: 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

- 40 mm gravity drain refer point B on the installation diagram run waste directly behind the machine or through base.
- An S&P trap will need to be fitted at the drain waste refer point B on the installation diagram.
- With a standard trap the drain connection height will be about 600mm below the bench height on the model (300mm above floor with door open height at 900mm).



NOTE: Either copper or PVC may be used for the waste connection – PVC is more resistant to some harsh detergents. Some authorities however suggest that copper is required because the machine rinses at up to 90°C. It is important to note that rinse water mixes with the 65°C wash water before discharge and then flows into the trap where the water is further cooled before entering the drainage plumbing. We recommend consulting your local authority to ensure your site remains compliant.

Installation Checklist

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

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 (65°C)? | HOT WATER INLET 65°C | | | |
| PRESSURE CORRECT (<350 kPa)? | LIMITER FITTED IF ABOVE RANGE | | | |
| FLOW RATE CORRECT (≥ 5L 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 (3p/25A 400V 50Hz)? | VOLTAGE, CURRENT, CIRCUIT BREAKER ALL CORRECT | | | |
| WASTE | | | | |
| 40MM CONNECTION (1.5" BSP)? | HARD PLUMBED, NO LEAKS | | | |
| SUITABLE AIR GAP? | REFER OPERATOR MANUAL. | | | |
| CHEMICALS | | | | |
| | | | | |
| CHEMICAL NAME | CONTAINER NO LEAKS PRIMED CALIBRATED | | | |
| CHEMICAL NAME DETERGENT | CONTAINER NO LEAKS PRIMED CALIBRATED | | | |
| | CONTAINER NO LEAKS PRIMED CALIBRATED | | | |
| DETERGENT | CONTAINER NO LEAKS PRIMED CALIBRATED | | | |
| DETERGENT RINSE FLUID | CONTAINER NO LEAKS PRIMED CALIBRATED MULTIPLE CYCLES RUN, NO ISSUES | | | |
| DETERGENT RINSE FLUID MACHINE OPERATION | | | | |
| DETERGENT RINSE FLUID MACHINE OPERATION MACHINE RUNNING CORRECTLY? | MULTIPLE CYCLES RUN, NO ISSUES | | | |
| DETERGENT RINSE FLUID MACHINE OPERATION MACHINE RUNNING CORRECTLY? CHEMICAL DOSAGE CORRECT? | MULTIPLE CYCLES RUN, NO ISSUES CORRECTLY FLOWING INTO MACHINE, NO FOAMING | | | |
| DETERGENT RINSE FLUID MACHINE OPERATION MACHINE RUNNING CORRECTLY? CHEMICAL DOSAGE CORRECT? ALL OPERATIONS CORRECT? OPERATOR TRAINING | MULTIPLE CYCLES RUN, NO ISSUES CORRECTLY FLOWING INTO MACHINE, NO FOAMING FILL LEVEL CORRECT, NO DRAINAGE ISSUES HE OPERATION MANUAL AND WALL CHART, AND IS AWARE OF THE | | | |
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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 isn't 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. At this stage washing will stop and the machine will begin rinsing to complete the cycle.
- Check inlet water temperature is not too low as per our specifications.

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, <u>consult a chemical specialist</u>.
- · 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.

Chemical residue on items after the cycle

- Check that nothing is obstructing the wash & rinse arms from rotating.
- Check the rinse fluid dosage is not too high. If uncertain, please consult a chemical specialist.
- Check detergent dosage is within the requirements.

Dishwasher is foaming

- 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 <u>consult a chemical</u> 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 equipment in the kitchen has needed filters or has scale

- 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 <u>consult a water specialist</u>.
- As with the 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 <u>consult a water specialist</u>.

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 accessing the WI-200 Electronic timer. For adjustment instructions refer to the adjustment section of the service manual for this model or the WI-200 Timer service manual.

Operator Use Guide

START

- Turn on at wall.
- Ensure the Upstand (2) and Wash Pump Filter (1) are firmly in place.
- Check the Scrap Trays (3) are in place and shut door.
- Turn the Selector Switch to any Cycle (I, II or III).
- Power light glows red and machine fills automatically.
- Once full, rinse heating starts.

OPERATION

- Select required Cycle of I (2 minutes), II (4 minutes) or III (6 minutes).
- Load items into the machine and shut door.
- Press Start Button to start machine.
- Start Button glows green while machine operates.
- When Start Button goes out, the cycle is complete.

NOTE: 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

- Turn Cycle Selector to 0 and turn off the power from the wall.
- Remove Scrap Trays (3) and Upstand (2) to drain the Wash Tank.
- Once the Wash Tank is fully drained remove and rinse Wash Pump Filter (1) before replacing back into the machine along with the Upstand (2) and Scrap Trays (3).

CLEANING - AT LEAST ONCE A WEEK

Remove, rinse and replace when machine has cooled down:

Wash Pump Filters 1
Drain Upstand 2
Scrap Trays 3
Wash Arms 4
Rinse Arms 5

Inspect and clear all jets in the upper and lower Wash/Rinse Arms using a small object such as a toothpick where necessary to remove any blockages prior to rinsing.

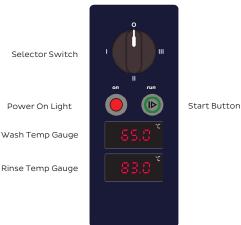
5 4 3 2

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 wash tank to foam.



Operator Troubleshooting

| Issue | | | | | Caı | ıse | | | | |
|----------------------------|-------------------|------------------------------|-------------------|---------------------|------------------------------|-------------------------|------------------------------|----------------------------|------------------------------|----------------------|
| | POOR PRE-SCRAPING | CARRY OVER OF SOAP FROM SINK | OVERLOADING RACKS | INADEQUATE CLEANING | DRAIN UPSTAND NOT PLUGGED IN | 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

IF PROBLEMS PERSIST CONTACT STARLINE SERVICE ON 0800 STARLINE

^{*} 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.

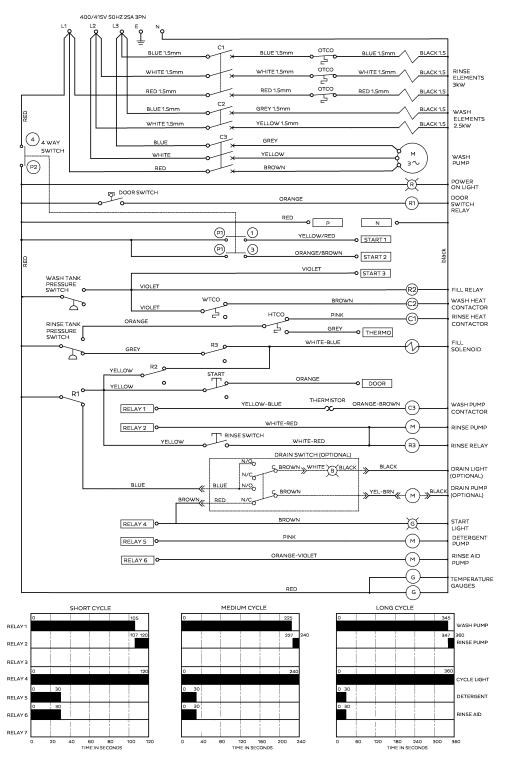
^{**} For issues that are likely due to poor water quality (scale building up, filters being required on other kitchen equipment etc.), we recommend you consult a local water specialist prior to calling in a dishwasher technician.

Schematic Diagram

AL8-4(S) / PW1-4 Schematic Diagram

Part #: 010183Date: 19/07/2018

• Version: 1-B



Accessories

PW1 Accessories

Part #: PW1 ACDate: 26/11/2018

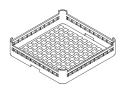
• Version: 1-C



C660508 CUTLERY BASKET CP8



824 30001 PW1 RACK



600 70029 CUPRACK CB 500mm X 75mm high



0452 CUP COVER W/P 435mm FOR 500mm RACK



600 70028 DISHRACK



824 10130 PW1 TINE BAR ASSEMBLY



600 90023 SS LEG (63D x 180-250mm x M12)



600 60080 2m HOSE ANGLE END

Spare Parts

| DESCRIPTION | PART NO | REC. STOCK |
|--|--|---|
| Cabinet & Door Control Panel Sub-Assembly Control Panel Label Front Panel Lower Rear Safety Panel Upper Rear Safety Panel | 354 14008 400 70189 351 21030 824 20136 824 20135 | 1 1 1 1 |
| Controls & Indicators Contactor Door Reed Switch Knob 4 Position Power Light Pressure Switch Rinse Tank Pressure Switch Wash Tank Relay 2 pole 240V Relay Base Start Button Switch 4 Position Temperature Gauge Terminal Strip 6 Way Switch Single Pol Biased Black Timer Electronic | 600 30337 600 30183 600 30524 600 30529 600 30478 600 30479 600 30080 600 30081 600 30566 600 30269 600 30546 3229 3035 600 30513 | 1 1 1 1 1 1 1 1 1 1 1 |
| Heating Components Over Temperature Thermostat Rinse Element 6 kW Rinse Tank Assembly Rinse Thermostat Wash Element 2.5 kW Wash Thermostat | 600 30088 600 30496 400 10351 30201 600 30159 30201 | 1 1 1 1 1 |
| Hoses Detergent Hose Pressure Switch Hose Rinse Hose Upper Wash Hose Lower Wash Hose Wash Pump Inlet Hose Wash Pump Outlet Hose UHB25 Hose Bend | 600 30148 3067 600 60073 6195 6195 C200359 61941 600 90074 | 1 500mm 3000mm 140mm 60mm 1 140mm |

Spare Parts

| DESCRIPTION | PART NO | REC. STOCK |
|---|---|--|
| Pumps and Solenoids Detergent Pump Detergent Squeeze Tube Rinse Aid Pump Rinse Aid Squeeze Tube AVB Solenoid Valve Wash Pump Rinse Pump | 600 30526 600 30134 600 30480 600 30119 600 60053 3342 3906 600 30400 | 1 1 1 1 1 1 1 1 |
| Wash Tank Components Drain Upstand Rack Assembly Locknut Wash Arm Rinse Arm Assembly Rinse Arm Bush Rinse Arm Cap Screw Rinse Arm End Plug Rinse Arm Spring Retainer Screw Scrap Tray Slip Ring AL(3) Black Acetal Wash Arm Assembly Wash Arm Bush Wash Arm End Screw Wash Pump Inlet Filter Wash Spindle AL | 400 10145 824 10005 280409C 400 10239 C190624 261004C 400 30200 C450218 351 12003 400 30191 815 10007 190621C 600 80072 352 10026 400 30362 | 1 1 2 1 2 2 1 2 1 2 1 2 1 4 4 1 |

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