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#### WARNING

Before installation and commissioning, 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.

### **CONTENTS**

Safety Instructions	3
Installation	
Installation Diagram	
Operating Procedures	
Troubleshooting	
Wiring Diagram	

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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# Service 0800 782 754 Parts 09 829 0930



Manufactured in New Zealand by Washtech Ltd. 414 Rosebank Road, Avondale, Auckland 1026. PO BOX 90548, Auckland

# **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
- Hood 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 65°C
- Consumption per cycle 2.6 litres
- Pressure required 200-350 kPa fit limiter above this pressure
- · Back Flow Atmospheric Vacuum Breaker
- Potable water quality is required within the following requirement ranges filter or soften if necessary

# **Water Quality Requirements**

Hardness	<b>fH</b>	<b>dH</b>	<b>ppm</b>	gf/gal	<b>pH</b>	
Min	2	1	220	1	7	
Max	10	6	100	6	8	
lons Max mg/L	<b>CL</b> 100	<b>SO</b> <sub>4</sub>	<b>Fe</b> 0.1	<b>Mn</b> 0.5	<b>Cu</b> 0.05	<b>Cl</b> <sub>2</sub> 0.1

### **Power**

Machine shipped three phase 15 A per phase 400V 50Hz

#### Waste

Connect drain pump hose supplied to upstand or sink waste connection

#### **Detergent**

- · Note that detergent is hazardous read instructions and handle with care
- Insert hose into container of commercial dishwasher low foam detergent
- Refer operator procedures

# **Rinse Fluid**

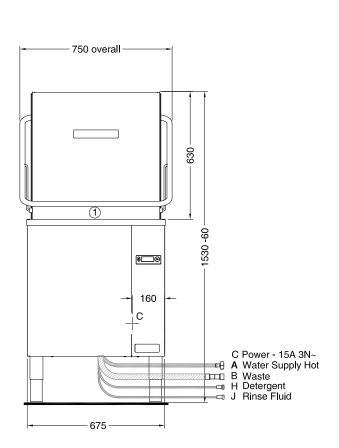
- · Insert hose into adjacent container of commercial dishwasher rinse fluid
- Refer operator procedures

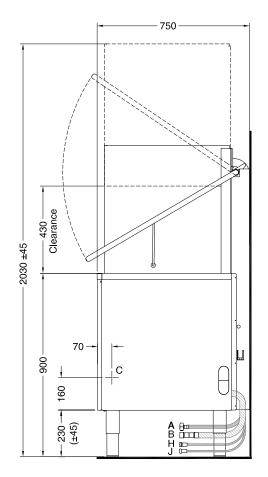
# Operation

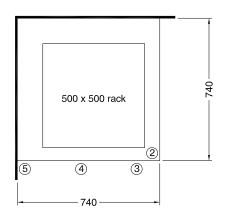
· Run several cycles, ensure that operator has read and understands instructions

# **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.

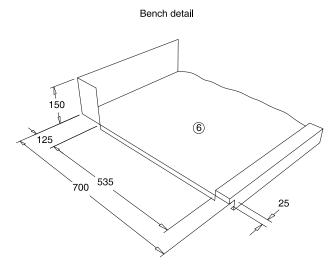






### In-line Installation

- 1 Bench gap 640
- Corner Installation
- ② wall to front inside corner of wash tank 740
- ③ machine must face left for access to controls
- (4) allow 300 clearance beneath bench to front for service access
- 5 splashback return no higher than 150
- (6) left side is mirror image



# **AL Machine Operation**

Turn machine on at wall. Fit scrap tray, filter and shut door. Press On/Off Key for 3 Seconds



Start key glows white as machine fills. If door is open then the start key glows purple



Once full, rinse heating starts. Start key glows orange while heating. Machine can be started when machine is heating. NOTE: If rinse temperature is not sufficient cycle countdown will stop at 14 seconds. Washing continues until rinse reaches temperature required for sanitization and countdown then resumes.



Start key glows green when machine is fully heated. For different cycles press the UP and DOWN arrows: Light, Medium, Heavy, Manual or Drain.



Close door/Press start key to start cycle. When manual cycle is selected machine will continue washing until START button is pressed. Rinsing and draining follow washing to complete cycle.



Start key glows red during cycle. Pressing Start key again terminates cycle without rinse. Timer counts down to double zero and flashes 00 at cycle end until door is opened.



### **SHUT DOWN - EVERY NIGHT**

Press UP or DOWN keys to select Drain cycle and shut the door. Press START key to start Drain cycle. Machine drains for 180 seconds with a cleaning rinse mid-cycle. When Draining is complete machine goes into Standby mode. Remove filter basket and scrap tray; rinse clean and replace.





### **DAILY CLEANING**

The machine must be drained and cleaned at the end of each day. Drain the machine as per the shut down instructions. Remove, clean and replace filters. Regularly check the wash and rinse jets and clean if necessary.

# **MAINTENANCE**

Regular servicing of the dishwasher is essential for high performance, efficient operation and long machine life. Contact us for information on a maintenance programs.





# **Operating Procedures**

# **PRE-RINSING**

Pre-scraping of dishes is required by Food Hygiene Regulations. The best method is to pre-rinse with warm water with a Fisher Pre-rinse Unit - or alternatively by scraping or dunking in water. Cutlery should be pre-soaked in warm water, preferably containing cutlery pre-soak compound - refer your chemical supplier.

### **RACKING PROCEDURES**

Do not overload racks or cutlery containers, minimise the overlap of crockery. Wash cutlery unsorted, handles down. Cycle times are short and water consumption per cycle low – so there is no advantage in overloading racks.

#### **CYCLE TIMES**

The AL has a 40, 60, 90 second cycle and extended manual cycle.

### **CHEMICAL**

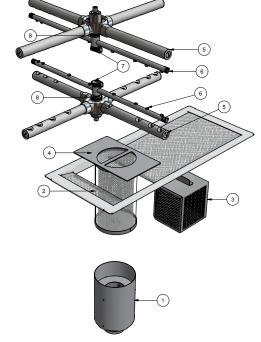
Correct type and quantity of detergent is essential for good results and rinse fluid speeds drying. Use good quality chemicals and regularly check supply containers. Detergent and rinse fluid concentration can be changed by adjusting dispensing time on the keypad (refer to page 8 User Programming). Prime detergent line by turning on the DETERGENT PRIME option in the User Settings menu. Detergent pump will operate continuously for up to 1 minute and prime the line; repeat process as necessary until line is fully primed.

# **DRYING**

Single tank commercial dishwashers do not have a drying cycle. However, the machines do rinse at high temperatures which promotes fast drying particularly when drying agents are used. At the end of the cycle promptly remove the rack from the machine - leave the rack on the bench for 2 to 3 minutes before emptying.

# **REGULAR CLEANING** – at least once a week

Remove filter basket (4), scrap tray (2) and wash filter (1) and pump inlet filter (3). Remove wash (5) and rinse arms (6) by undoing the central thumbscrews (7). Inspect all jets – use toothpick or paperclip and remove arm end-caps if necessary to flush and clear. Clean and then replace all items.



# **Keypad Start Button Colours**

Machine State	Colour
Door Open	Purple
Filling	White
Heating	Orange
Ready	Green
Ecopower	Blue
Washing	Red
Error	Flashing Red

# **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	<b>Factory Setting</b>	Selection
Power Save	ON	ON/OFF
Detergent Prime	OFF	ON/OFF
Fill Detergent Injection Time	40	0 - 180 secs
Wash Detergent Injection Time	15	1 - 30
Rinse Aid Injection 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.

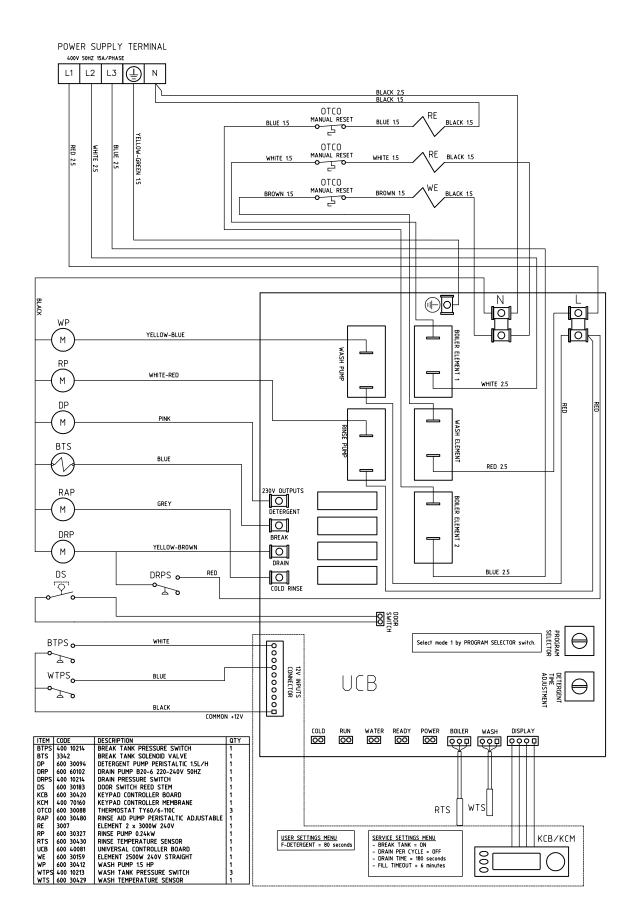
**QuickStart** starts washing regardless of rinse temperature. If rinse temperature is not sufficient cycle countdown will stop at 14 seconds. Washing continues until rinse reaches temperature required for sanitization and countdown then resumes.

# **Troubleshooting**

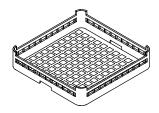
If an error message appears on the control display first try turning the machine OFF for 30 seconds and then back ON. If the error message remains call for service.

Issue	Resolution
Not filling	Check water supply is on and door is closed
Cycle does not start	Check door is closed
Wash too long	Check water supply temperature - wash stops at 22 seconds if rinse is still heating
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 the 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 rotating 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 the bench a few minutes for
	drying

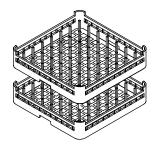
# **AL Wiring Diagram**



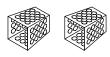
# Accessories



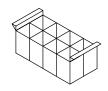
600 70029 CUPRACK 500mm OPEN



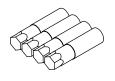
600 70028 DISHRACK 500mm 9 x 9 DIVISION



C660503 CUTLERY CONTAINER G



C660508 CUTLERY BASKET CP8 for 500mm



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



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Manufactured in New Zealand by Washtech Ltd.

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