





### **WARNING**

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

### **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.

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.

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Distributed In Australia by

Service 1 800 622 216 Parts 1 800 337 963

740 Springvale Road, Mulgrave 3170, Victoria, Tel 03 9518 3888 Fax 03 9518 3818

# **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

### Power Cord Replacement

 If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard

### Installation



### WARNING

Installer must be suitably qualified and ensure compliance with all local codes and standards including AS/NZS 3500.1.



Failure to comply even partially with installation instructions may void the warranty.

### **Positioning**

Unpack machine, check for damage and complete delivery. Install machine on sound waterproof self-draining floor and use adjustable feet to level machine. Adjacent surfaces should be heat resistant and moisture proof, especially benchtop lower surfaces above undercounter machines. Allow room for detergent to one side of machine or in adjacent cupboard. 20litre container requires about 450H x 250W x 350D, but smaller containers are available from many suppliers.

### **Hot Water Supply**

Temperature  $65^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Pressure 200 KPa = 30 Psi.Connection  $20 \text{ mm } (3/4^{\circ} \text{ BSP}) \text{ male}$ Flow rate minimum 20 litres per minute

Water consumption 2.6 litres per cycle approximately

Backflow prevention DCV = Dual Check Valve supplied with machine

Pressure limiter may be required. Don't use small diameter plastic supply lines. FLUSH supply line before connection. Connect supplied DCV to water supply. Poor quality supply or excessive water hardness may affect performance or damage machine – filtration and/or softening is recommended.

### Waste

Drain pump is fitted – refer installation diagram.

### **Power**

Electrical supply required is 15A 240V 50Hz via switched outlet adjacent to machine, which is supplied with cord set including 15A plug.

### **Detergent**

Insert detergent pump inlet hose into container of commercial low foam detergent. The detergent hoses will be primed during filling of the wash tank.

Detergent pump is set to operate for 12 seconds at the beginning of the wash cycle. This time can be adjusted in User Settings of the keypad controller. Press both Up and Down keys on the keypad for a few seconds to access the User Setting menu and follow onscreen instructions.

Commercial detergents can be hazardous - read instructions and handle with care.

### Rinse Aid

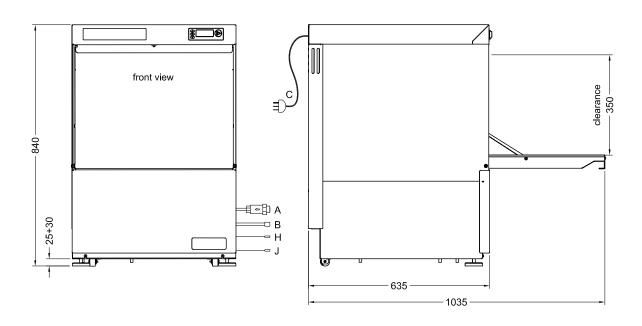
Insert injector inlet hose into rinse aid container. Check amount of fluid rising up inside pipe during pulse at start of rinse cycle. Rotate Adjusting screw clockwise to reduce flow and anticlockwise to increase flow.

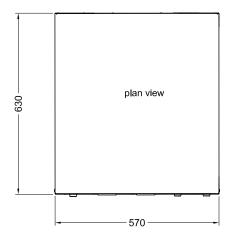
### **Installation Checklist**

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

### **Troubleshooting**

If machine doesn't fill after switching on power, check and ensure that hot water supply tap is open, water supply pressure is not below specification and Dual Check Valve is correctly installed (arrows on the dual check valve's body specify water flow direction).





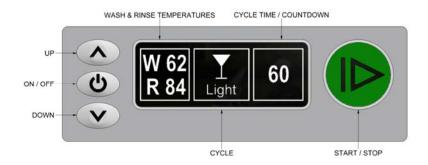
ensure dual check valve is located at water supply entry point.

- A Water supply
- B Waste
- C Power supply
- H Detergent
- J Rinse Fluid

# **Installation Checklist**

CHECK		OK / NOTES				
D-1:						
Delivery						
Supplied complete			no transit damage			
Position						
Level and stable			on sound, waterproof, self draining floor			
Water						
Isolator valve fitted			Accessible, all fittings sound, no leaks			
DCVs fitted (Washtech only)			Correct direction			
Temperature			$65 \pm 5$ °C			
Flow rate			Minimum 20 litres per minute			
Pressure			200-350 kpa, limiter fitted if above this range			
			Booster fitted if below this range			
Cold water when required			Pressure not above 350 kpa			
Hardness			Filter or softening if required			
Power						
Isolating switch			Fitted, functional and accessible			
Supply as specified			Voltage, current, circuit breaker			
Waste			0 1			
Usually 40 mm			Sound, no leaks			
Air gap on pumped drain			-			
Chemicals	1					
	product name		container	no leaks	primed	conc.OK
Detergent						
Rinse Aid						
Machine operation						
Run several cycles						
Confirm correct operation			Including correct fill levels			
Operator train	ing					
Confirm Opera	tor has copy of	Operator Manua	l and is famil	iar with proc	edures	
Start-up				Model / Serial		
Pre-rinse and racking				Owner		
Machine operation				Location		
Drain				Technician		
Clean				Date		
Shut-down				Signed		
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# **UD Operating Instructions**



### Start up

Fit scrap tray, wash pump filter and upstand, and shut door.

Turn wall power switch on and press machine ON/OFF Button for 1 second.

START/STOP button glows white and machine fills automatically.

Machine starts heating when wash tank is full.

START/STOP button glows orange while heating.

START/STOP button glows green when machine ready for operation.

### Operation

Select Light, Medium, Heavy or Manual cycle by pressing UP or DOWN keys. Light, Medium and Heavy cycles correspond to 60, 120 and 180 seconds cycles accordingly.

Load rack into machine and shut door.

Press START/STOP button to start the cycle.

The START/STOP button glows red while machine operates.

Pressing the START/STOP button during operation will terminate the cycle.

When red light goes out, cycle is complete.

If Manual cycle is selected machine will continue washing until START/STOP button is pressed again. The following rinse will complete the cycle.

Remove rack. Close door.

NOTE: The cycle time might be longer than specified if water supply temperature is below required.

### Shut down every night

Select Drain cycle by pressing UP or DOWN keys.

Remove drain upstand, close door and press START/STOP button.

Machine will drain for 100 seconds with a cleaning rinse in a middle of cycle.

When drain & clean are complete machine will go in to standby mode.

Remove filter, scrap tray, and rinse clean.

Replace scrap tray, filter and drain upstand.

### Scrap tray & filter arrangement

Ensure scrap trays, upstand bracket, filter and upstand are placed as shown



# **Dishwashing Procedures**

Note: these are general instructions to assist in getting the best performance from Washtech dishwashers – some comments and / or illustrations may not apply to every unit.

### Installation



Read the Operator Manual. Correct installation, including an adequate supply of water at the correct temperature and pressure is essential for effective operation of your machine. Refer installation instructions for details. Drain hose outlet height is important on some models. Always install on a sound self-draining floor. Water softening is recommended in hard water areas - especially for glasswashing

### **Pre-rinsing**



Pre-scraping of dishes is required by hygiene regulations. The best method is to pre-rinse with a pre-rinse spray unit - or alternatively by scraping or dunking in water.



### **Cutlery Procedures**



Pre-soak cutlery in warm water, preferably containing cutlery pre-soak compound - refer your chemical supplier.

Do not overfill cutlery containers. Cutlery should be loose with handles down. Sort after washing rather than before. Cutlery of only one type nests together and obscures wash water.

### **Racking Procedures**

Do not overload racks, minimize the overlap of crockery. Cycle times are short and water consumption per cycle low - so there is no advantage in overloading racks.



### Cycle Times



For multi-cycle machine use the longest cycle whenever possible. Note that water consumption does not increase with longer cycles. Only choose shorter, faster cycles when necessary.



### Detergent

Use of correct type and quantity of low foaming detergent is essential to machine performance. Ask a professional chemical supplier to recommend the best types and concentrations of detergent, rinse fluid and cutlery soak for your situation. Note that detergents are hazardous. Poorly formulated detergents, particularly those containing chlorine, can shorten the life of dispensing systems and the machine itself.



# **Dishwashing Procedures**

### **Drying**

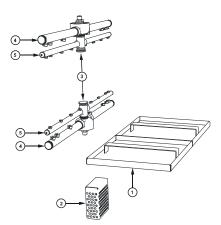


Single tank commercial dishwashers do not have a drying cycle. However, the machines do rinse at high temperatures which promote fast drying particularly when drying agents are used. We recommend prompt removal of the rack from the machine - leave the rack on the bench for 2 to 3 minutes before emptying. This time will be reduced with correct use of drying agent (rinse fluid) which reduces water surface tension and allows water to drain quickly from washware. For advice on drying agents and injectors refer to your chemical supplier.

### **Daily Cleaning**

It is essential that the machine is drained and cleaned at the end of each day. Drain the machine then remove, clean and replace filters as per the operating instructions. Regularly check the wash and rinse jets and clean them if necessary – see below.

### **Regular Cleaning**



Remove scrap trays<sup>①</sup> and wash pump inlet filter<sup>②</sup>, where fitted, and rinse or brush clean.

Remove wash and rinse arms by undoing the central thumbscrews<sup>③</sup>. If necessary, remove the end cap screws<sup>④</sup> from the wash arms and the end screws<sup>⑤</sup> from the rinse arms and flush the arms with water and/or use a toothpick or paperclip to clear jets.

Note: arms and filters vary with model and may appear different from this illustration e.g. those models with plastic wash arms have removable jets for ease of cleaning

### **Regular Servicing**

Regular servicing is essential for optimum performance and long machine life. Maintenance is recommended at least once every six months – especially when chemical injectors are fitted.

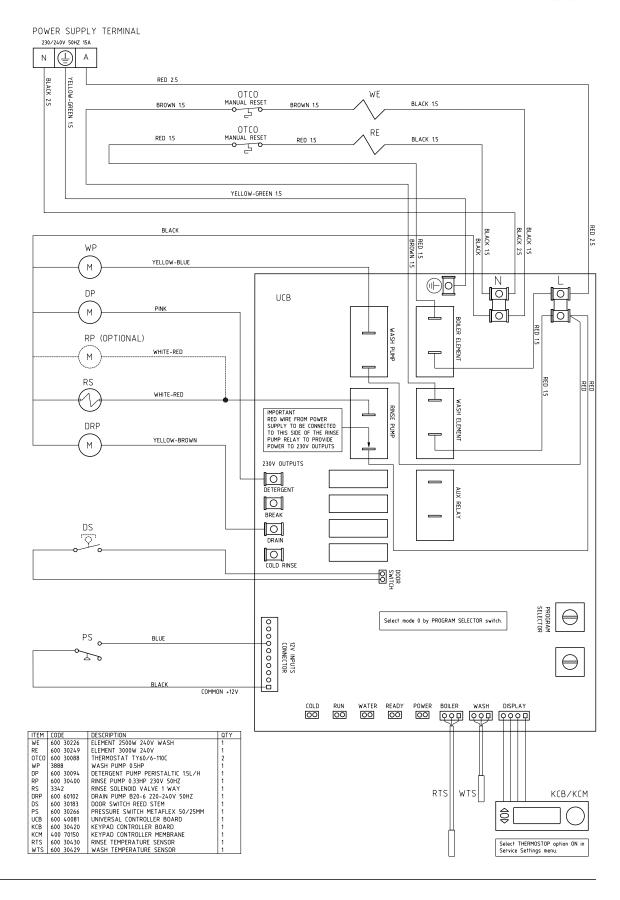


Please contact Moffat or your Authorised Service Provider to organize regular servicing of the dishwasher - discuss a Preventative Maintenance Agreement.

Note: these are general instructions to assist in getting the best performance from Washtech dishwashers – some comments and / or illustrations may not apply to every unit.

### EU/UD7 WIRING DIAGRAM

030313 1/08/13 3 B



# **Notes**



### www.moffat.com.au

Distributed in Australia by Moffat Pty Limited

P 03 9518 3888

F 03 9518 3818

E vsales@moffat.com.au

740 Springvale Rd Mulgrave 3170 Victoria

Service 1 800 622 216 Parts 1 800 337 963



#### ISO9001

All Washtech products are designed and manufactured by Washtech using the internationally recognised ISO9001 quality management system, covering design, manufacture and final inspection, ensuring consistent high quality at all times.

In line with policy to continually develop and improve its products, Washtech reserves the right to change specifications and design without notice.

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