PW3C

WIDE BODY PASSTHROUGH WAREWASHER
C/W HEAT REVOVERY UNIT
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.

The machine is designed solely for cleaning crockery (porcelain, glass, ceramic, temperature-resistant plastics, stainless steel or similar) from the food industry.

This machine is not intended for washing: containers that do not come into contact with foodstuffs, animals, textiles or foodstuffs intended for further consumption.

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.

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.
- 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 not intended for use as a stepladder do not stand on open door.

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

PW3C Installation Diagram

WPW30021 Part #: Date: 25/09/2018 855 min -Version: 3-A – 1330 Overall -- 1235 640 270 Door open 2465 ±50 2120 ±50 Hc 575 900 ±50 A+D - 300 □ H Detergent ■ J Rinse Fluid 380 450 570 – 90 (min) Bench detail Internal Grid 825 to inside tank front Usable Wash chamber 640 920 1050w x 640d x 650h 850 660 ____ handle __ - Bench gap 1195 Services 200-350 kPa 3/4" Hot water 65°C Α 40mm В Waste - tank drainage point 1.5" BSP Electrical connection 400-415V, 50Hz, 3P-N+E~ 30A 200-350 kPa 3/4" Cold water 20°C 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.



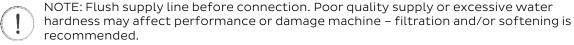
NOTE: Failure to level the machine correctly may result in leaking during the cycle, overflowing from the door sill, poor hygiene through the wash tank not being able to drain correctly, and/or visibly uneven door.

 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.

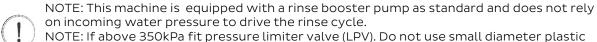
Inlet Water Operation - Cold

Incoming water should be within the following standard requirements:

- Temperature: 20°C.
- Connection: 20 mm (3/4" BSP) male flexible hose supplied.



- Flow rate: minimum 5 litres per minute.
- Pressure: no greater than 350 kPa.



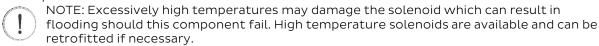
- Consumption: Approximately 4.0 litres per cycle.
- Backflow prevention: Atmospheric Vacuum Breaker (AVB) fitted standard.
- Watermark Certification #08603.

Inlet Water Fill - Hot

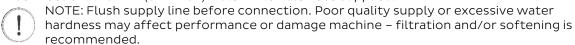
supply lines.

Incoming water should be within the following standard requirements:

• Temperature: 65°C.



• Connection: 20 mm (3/4" BSP) male – flexible hose supplied.



- Flow rate: minimum 20 litres per minute.
- Pressure: no greater than 350 kPa.

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

- · Backflow prevention: Atmospheric Vacuum Breaker (AVB) fitted standard.
- Watermark Certification #08603.

Installation Instructions

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/30A 415V 50Hz via switched outlet adjacent to machine.

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 installation diagrams run waste directly behind the machine or through open base.
- An S&P trap will need to be fitted at the drain waste refer point B on the installation diagram.
- With a standard S&P trap the drain connection height will be no less than 575mm below the bench height on the model (or no higher than 325mm if installed in standard 900mm high benching).



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 sink 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)?	HIGH TEMP SOLENOID IF ABOVE RANGE					
PRESSURE CORRECT (< 350 kPa)?	LIMITER FITTED IF ABOVE RANGE					
FLOW RATE CORRECT?	RINSE PUMP FITTED					
QUALITY WITHIN REQUIREMENTS?	FILTER OR SOFTENER IN PLACE IF OUTSIDE REQUIREMENTS					
POWER						
ISOLATING SWITCH?	FITTED, FUNCTIONAL AND ACCESSIBLE					
CORRECT SUPPLY (3p/30A 415V 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						
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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.

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</u> 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.

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> <u>specialist</u>.
- 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 consult a
 water specialist.
- 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/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 the model or the WI-200 Service Manual.

Operator Use Guide

START

- Turn on at wall.
- Ensure the Upstand (2) and Wash Pump Filter (3) are firmly in place.

Selector Switch

- Check the Scrap Trays (1) 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.

Power Light

• Once full, rinse heating starts.

Wash Temp Gauge

OPERATION

Rinse Temp Gauge

- Select required Cycle of I (2 minutes), II (4 minutes) or III (6 minutes).
- Load items into the machine and shut door.
- Cycle Light glows green while machine operates.
- When Cycle Light 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

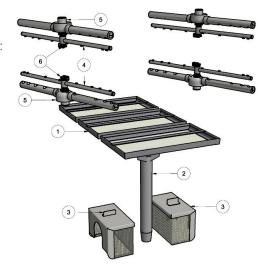
- Turn Cycle Selector to 0 and turn off the power from the wall.
- Remove Scrap Trays (1) and Upstand (2) to drain the Wash Tank.
- Once the Wash Tank is fully drained remove and rinse Wash Pump Filter (3) and Scrap Trays (1) before replacing back into the machine along with the Upstand (2).

CLEANING - AT LEAST ONCE A WEEK

Remove, rinse and replace when machine has cooled down:

Scrap Trays 1
Drain Upstand 2
Wash Pump Filters 3
Rinse Arms 4
Wash Arms 5
Thumbscrews 6

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.



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.

Cycle Light

Operator Troubleshooting

Issue	Cause									
	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 MOFFAT SERVICE ON 1300 264 217

^{*} 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.

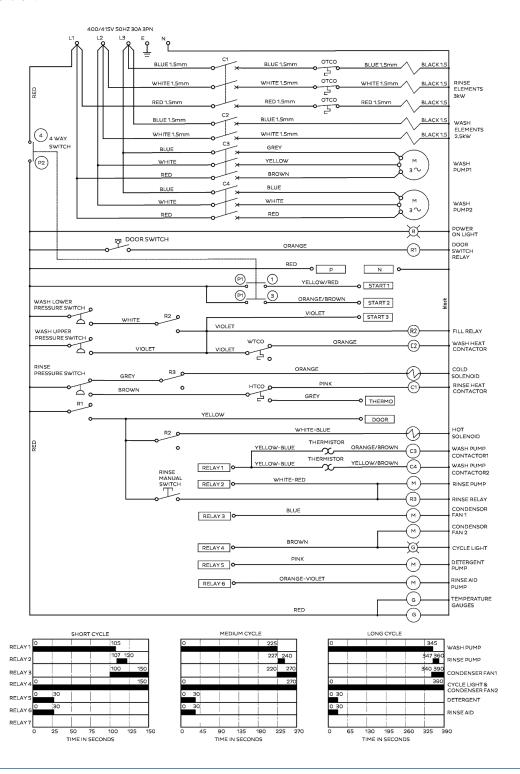
^{**} For issues that are likely due to poor water quality (scale building up, filters being required on other kitchen equipment etc..), we recommend you consult a local water specialist prior to calling in a dishwasher technician.

Schematic Diagram

PW3C (W) Schematic Diagram

Part #: 010184Date: 26/11/2018

Version: 1-A



Accessories

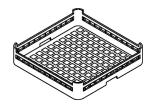
PW3C Accessories

Part #: PW3C ACWDate: 06/12/2011

Version: 3-D



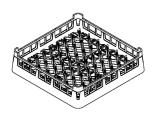
827 10015 PW3 RACKSLIDE ASSY



600 70029 CUPRACK CB 500mm X 75mm high



CUP COVER W/P 435mm FOR 500mm RACK



600 70028 DISHRACK



C660508 CUTLERY BASKET CP8

Notes

Notes

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Distributed in Australia by Moffat Pty Limited

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