WASHTECH

OPERATOR MANUAL

XP



GENERAL WARNINGS



Non-compliance with warnings or failure to follow the instructions in this manual can result in loss of life, severe personal injury and / or serious damage to property.

Before installation, commissioning and / or repair of the machine you must carefully read the safety instructions and warnings and all warning labels attached to the machine.

Hazards can include high surface temperatures, hot water, caustic detergent, sharp edges including broken glass and knives left in the wash chamber, and dangerous electrical voltages.

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

The electrical supply must be turned off at the wall before accessing the machine for servicing. All electrical terminals must be covered at all times to prevent access to the terminal. Appropriate electrical tests must be carried out after any and all service repairs.

IMPORTANT INFORMATION



Failure to comply even partially with the instructions given in this manual will invalidate the product warranty and relieve the manufacturer of any responsibility. This includes failure to supply the machine with good quality water at suitable pressure as specified.

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

This machine is intended for commercial use only. It is designed for the cleaning of fresh food waste from cutlery, crockery, glassware, containers and food preparation equipment. Consult the manufacturer regarding suitability for other applications.

No part of the machine is designed to be stepped upon.

This machine is not a waste disposal unit.

It is essential that operating procedures are followed including adequate pre-rinsing or scraping of loose soil or waste from washware before it is placed in the machine, and regular cleaning and maintenance of the machine.

Regular servicing is essential for optimum performance and long machine life. Maintenance by a dishwasher technician is recommended every 6 months or 15,000 cycles to ensure all systems are operating correctly and consumable items – such as chemical squeeze tubes – are replaced prior to degradation of performance and/or failure.

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.

This document is 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 (if applicable for the model) 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.

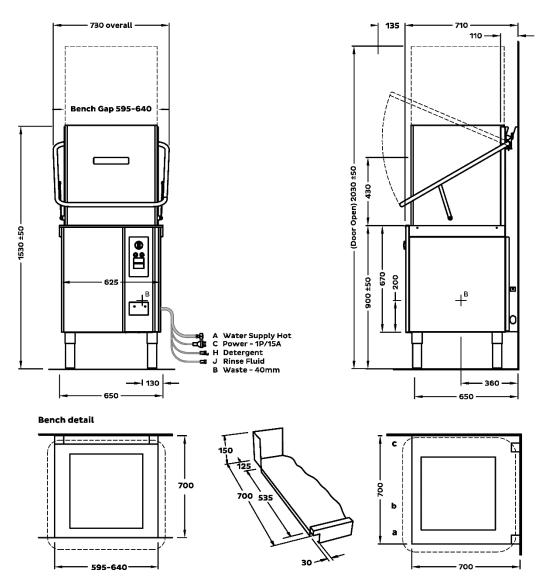
Installation and servicing must be carried out by a suitably qualified person in compliance with all local codes and standards including AS/NZS 3500.1.

INSTALLATION DIAGRAM

XP SERIES-4

Part #: XP4 INSTDate: 23/02/2024

Version: 3-A



Corner Installation Notes

- a Machine must face left for easy access to controls
- b Allow 300 clearance to front for service access
- c Splashback return to be no higher than 150

Services

Α	Hot water 65°	200-350 kPa	3/4"
В	Waste - tank drainage point	1.5" BSP	40mm
С	Electrical connection	230-240V, 50Hz, 1P-N+E~	15A
	or	230-240V, 50Hz, 1P-N+E~	25A
	or	400-415V. 50Hz. 3P-N+E~	15A

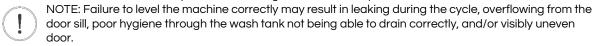
- H Detergent
- J Rinse Fluid

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

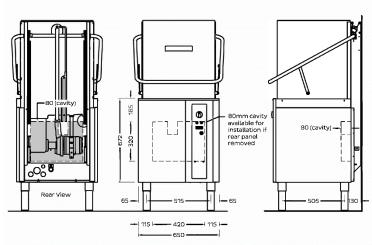
INSTALLATION INSTRUCTIONS

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.



- The front panels are adjustable down to 605mm; however, the upper sill is fixed at 650mm.
- The drain hose can be routed out either side or the lower rear of the machine.
- The rear panel may be removed when installing against a wall.

INLET WATER

Incoming water should be within the following standard requirements:

• Temperature: 65°C.

NOTE: Low temperatures will increase the recovery time between cycles and depending on the chemical being used, may result in excessive foaming if the machine is started before the wash water is up to a suitable temperature.

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.

NOTE: Flush supply line before connection. Poor quality supply or excessive water hardness may affect performance or damage machine – filtration and/or softening is recommended.

- Flow rate: minimum 20 litres per minute.
- Pressure: between 200 and 350 kPa.

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

- Consumption: Approximately 2.2 litres per cycle.
- Backflow prevention: Atmospheric Vacuum Breaker (AVB) fitted standard.

WATER QUALITY REQUIREMENTS

The incoming water should also be within the following parameters:

TDS	ppm	рН				
min	1	7				
max	135	8				
lons	CI-	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.

INSTALLATION INSTRUCTIONS

POWER

- Electrical supply required is 15A 230-240V, 50Hz via switched outlet adjacent to machine.
- Easily upgradeable to single phase 25A 230-240V, or three phase 15A 400-415V 50Hz.



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.

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: Avoid using excessively chlorinated chemicals along with domestic tablets, both of these can cause damage to machine.

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.

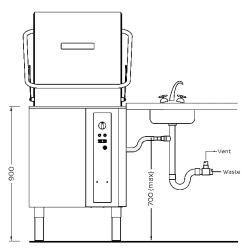
WASTE

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

NOTE: Failure to correctly connect the drain hose and ensure correct plumbing is in place beyond this may result in blockages, backflow from the sink and/or flooding of the machine.



NOTE: Either copper or PVC may be used for the waste connection – PVC is more resistant to some harsh detergents. It is important to note that 90° C rinse water mixes with the 60° C – 65° C wash water before discharge and then flows into the trap where the water is further cooled before entering the drainage plumbing.



- Drain connection should not exceed 550mm of the base of the dishwasher (700mm based on install at a 900mm bench height).
- The drain hose can be routed out either side or the lower rear of the machine.
- Optimal drain hose installation is to a low connection or standpipe that enables a consistent fall from the outlet of the machine (this limits residue remaining the line and extends the useful life of the hose).
- Ensure that the drain hose is not kinked.
- Do not leave the drain hose loosely on the ground as this will damage the hose over time causing premature failure.

INSTALLATION CHECKLIST

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

OPERATOR TRAINING

- · Ensure operators are aware of the operator procedures along with daily and weekly cleaning requirements.
- Check that they have read and have retained a copy of the Operator Use Guide.

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?	HOT WATER INLET 65°C °C
PRESSURE CORRECT (200 – 350 kPa)?	LIMITER FITTED IF ABOVE RANGE kPa
FLOW RATE CORRECT (≥ 20L PER MIN)?	FLOW RATE AT OR ABOVE MINIMUM RANGE
QUALITY WITHIN REQUIREMENTS?	FILTER OR SOFTENER IN PLACE IF OUTSIDE REQUIREMENTS
POWER	<u></u>
ISOLATING SWITCH?	FITTED, FUNCTIONAL AND ACCESSIBLE
CORRECT SUPPLY?	VOLTAGE, CURRENT, CIRCUIT BREAKER ALL CORRECT
WASTE	<u></u>
CONNECTION TO STANDPIPE/SINK WASTE?	CORRECT CONNECTION TO PLUMBING
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 COPERATION MANUAL AND WALL CHART, AND IS AWARE OF THE IMPORTANCE OF
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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 is not 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. Then the machine will begin rinsing and complete the cycle.
- Check inlet water temperature is not too low as per our specifications.
- Check power supply, uprating will increase heating power and reduce recovery times.

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.
- Ensure that water quality is adequate. Consult with a water specialist if not.

CHEMICAL RESIDUE AFTER CYCLE

- Check that nothing is obstructing the wash and rinse arms jets and/or rotation.
- Check detergent dosage is within the requirements.
- · Check the rinse fluid dosage is not too high. If uncertain, consult your chemical specialist.

DISHWASHER FOAMING

- Check that water pressure and flow rate to the machine are adequate. Insufficient water supply will effectively overdose the chemicals, and compromise the rinse performance.
- 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 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 UNITS HAVE WATER FILTERS AND/OR SCALE ISSUES

- 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 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 consult a
 water specialist.

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. For adjustment instructions refer to the adjustment section of the service manual for this model.

OPERATOR USE GUIDE

START

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

OPERATION

- Use Selector Switch to choose cycle of I (1 minutes), II (2 minutes) or III (3 minutes).
- · Load items into the machine and shut door.
- Run light glows green while machine operates.
- · When run 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

- Open door and turn on Drain Switch to drain the wash tank.
- · Once the Wash Tank is fully drained turn Drain Switch off.
- Turn Cycle Selector to 0 and turn off the power from the wall.
- Remove and rinse Scrap Tray (1), Wash Pump Filter (2) and Filter Basket (3) before replacing back into the
 machine.

CLEANING - AT LEAST ONCE A WEEK

Remove, rinse and replace when machine has cooled down:

Scrap Tray 1
Wash Pump Filter 2
Filter Basket 3
Wash & Rinse Arms 4
Thumb Screws 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.

Check wash element once cool and clean if necessary.

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.

Do not use domestic tablets or excessively chlorinated chemicals.

Servicing A dishwasher technician should service this machine the lesser of every 6 months or 15,000

cycles.



OPERATOR TROUBLESHOOTING

ISSUE	CAUSE										
	POOR PRE-SCRAPING	CARRY OVER OF SOAP FROM SINK	OVERLOADING RACKS	INADEQUATE MACHINE CLEANING	INSUFFICIENT WATER PRESSURE/FLOW	INSUFFICIENT WASH TEMPERATURE	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 YOUR SERVICE PROVIDER

^{*} 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.

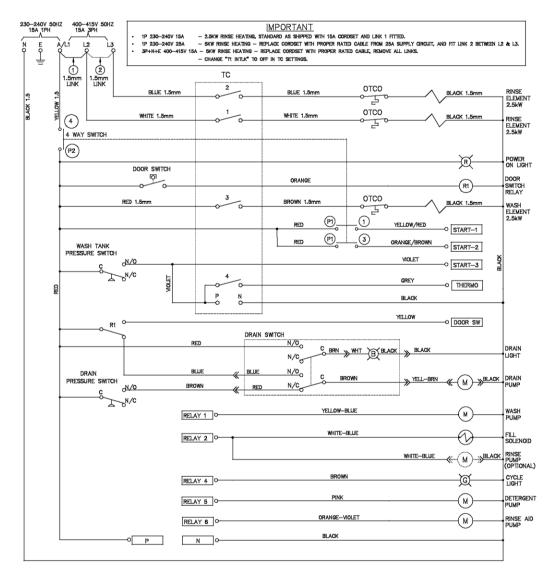
^{**} For issues that are likely due to poor water quality (scale building up, filters being required on other kitchen equipment etc.), we recommend you consult a local water specialist prior to calling in a dishwasher technician.

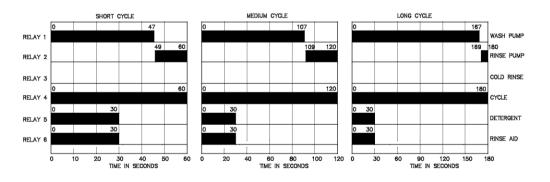
SCHEMATIC DIAGRAM

XP SERIES-4

Part #: 090151Date: 16/01/2024

• Version: 1-C



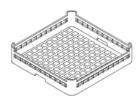


ACCESSORIES

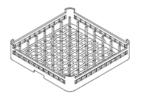
XP SERIES-4

Part #: XP4 ACSDate: 1/05/2023

• Version: 1-C



600 70029 CUPRACK CB 500mm X 75mm high



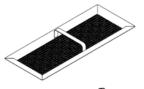
600 70028 DISHRACK P12/18 500mm 18 DISH



C660503 CUTLERY CONTAINER G



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



328 10003 M2 SCRAP TRAY ASSEMBLY



600 90080 2M S/S HOSE





303 20045 WASH INLET FILTER



400 10437 DRAIN INLET FILTER

SPARE PARTS

DESCRIPTION	PART#
CABINET & DOOR Control Panel Control Panel Label Door Door Handle Door Springs Front Panel Lower Rear Panel	400 20428 400 70298 303 14007 303 10037 326 30019 303 24008 303 24004
 CONTROLS & INDICATOR Cycle Light Door Reed Switch Drain Switch Knob 4 Position Loom for Temperature Display Power Light Power Relay Pressure Switch Drain Pressure Switch Wash Switch 4 Position Temperature Controller Temperature Display Temperature Sensor Terminal Strip 5 Way Timer Electronic 	600 30656 600 30183 600 30617 600 30524 600 30646 600 30657 600 30478 600 30479 600 30269 600 30640 600 30643 600 30430 3229 600 30513
HEATING COMPONENTS Over Temperature Thermostat Rinse Element 5 kW Rinse Tank Assembly Wash Element 2.5 kW HOSES Detergent Hose Drain hose Drain Pump Inlet/outlet Hose Lower Wash Tee Hose Pressure Switch Hose Rinse Hose Wash Pump Inlet Hose Wash Pump Outlet Hose	600 30088 600 30497 303 14029 600 30226 600 30148 600 60105 6196 3067 600 60073 6194 6195

SPARE PARTS

DESCRIPTION	PART#
PUMPS & SOLENOIDS Detergent Pump Detergent Squeeze Tube Drain Pump Rinse Aid Pump Rinse Pump (optional) Solenoid Valve Wash Pump	600 30526 600 30134 600 60102 600 30480 600 30400 3342 600 30660
 WASH TANK COMPONENTS AVB Drain Filter Basket Assembly Rack Slide Assembly Scrap Tray Wash Pump Inlet Filter Wash & Rinse Arm Assembly Wash & Rinse Spindle 	600 60053 400 10437 303 10010 328 10003 303 20045 600 41148 400 30223

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Washtech continually seeks to develop and improve our products, thus Washtech reserves the right to change specifications and design without prior notice.



Distributed in Australia by: Moffat Limited

70 Springvale Road Mulgrave, Victoria 3170 AUSTRALIA

Ph: 1300 269 801

moffat.com.au

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Manufactured in New Zealand by: Washtech Limited

414 Rosebank Road Avondale. Auckland 1026 NEW ZEALAND

washtech.com.au

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