CD180 HRU

RACK CONVEYOR 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.
- 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.

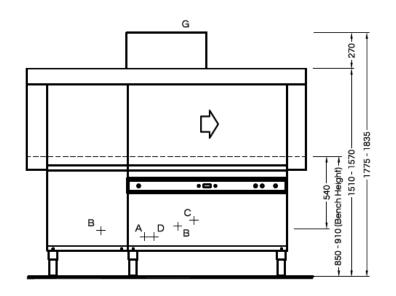
Installation and servicing must be carried out by a suitably qualified person in compliance with all local codes and standards including AS/NZS 3500.1.

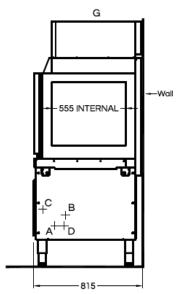
Installation Diagram

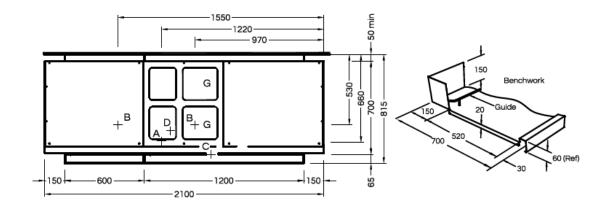
CD180L c/w HRU Installation

Part #: CD180L + HRUDate: 08-09-22

• Version: 1-A







Services

Α	Hot water 65°C	200-350 kPa	3/4"
В	Waste - tank drainage point	1.5" BSP	40mm
	Recommended minimum waste pipe	2" BSP	50mm
С	Electrical connection	400-415V, 50Hz, 3P+N+E	35A
D	Cold water <25°C	200-350 kPa	3/4"

G Air Outlet – no direct connection permitted. Certified for installation without dedicated extraction subject to minimum background ventilation of 1.1m2 free area opening or 350L/sec mechanical ventilation or air change. Consult with a ventilation engineer to ensure adequate background ventilation for your site and compliance with local regulations. Copy of full certification available on request.

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 450H x 250W x 350D, but smaller containers are available from many suppliers.

Ventilation

• The CD includes an integrated heat recovery unit in the top of the machine which captures and removes sufficient steam to enable it to be installed without a kitchen exhaust hood, subject to the area having minimum background ventilation of 1.1m2 free area opening and/or 350L/s mechanical ventilation or air change.



NOTE: The heat recovery system also requires the vents on the hood of the machine to be kept well clear of obstructions – do not to use the top of the machine for storage, and do not close the doors to the washroom if this is required as part of the minimum background ventilation. Staff must also be trained around the correct fitting of curtains.

Inlet Water Operation - Cold

Incoming water should be within the following standard requirements:

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



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.
- Water Consumption: 4 litres per minute.
- Pressure: between 200 and 350 kPa.



NOTE: This machine is not equipped with a rinse booster pump as standard and does rely on incoming water pressure to drive the rinse cycle.

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

• Backflow prevention: Atmospheric Vacuum Breaker (AVB) fitted standard.

Inlet Water Fill - Hot

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.

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

• Backflow prevention: Atmospheric Vacuum Breaker (AVB) fitted standard.

Installation Instructions

Water Quality Requirements

The incoming water should also be within the following parameters:

Hardness	ppm		рН	0.		
min	20		7			
max	100		8			
Ions	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/35A 415V 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.

Chemical

• Detergent and rinse aid pumps are not supplied with the CD180. We recommend you consult your chemical supplier and/or a local chemical expert for their recommended detergent and Rinse Fluid injector pumps.



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

• 40mm connection required to point B as specified on install diagram. An S-trap must be fitted on each of these points.



NOTE: Either copper or P.V.C. may be used for the waste connection – P.V.C. 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								
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							
PRESSURE CORRECT (200 – 350 kPa)?	LIMITER FITTED IF ABOVE RANGE, RINSE PUMP IF BELOW							
FLOW RATE CORRECT (> 20L per min)?	RINSE PUMP FITTED IF BELOW REQUIREMENT							
QUALITY WITHIN REQUIREMENTS?	FILTER OR SOFTENER IN PLACE IF OUTSIDE REQUIREMENTS							
POWER								
ISOLATING SWITCH	FITTED, FUNCTIONAL AND ACCESSIBLE							
CORRECT SUPPLY	VOLTAGE, CURRENT, CIRCUIT BREAKER ALL CORRECT							
WASTE								
CONNECTION TO 50mm PIPE?	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								
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Installation Troubleshooting

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.

Poor wash results

- Check that there are adequate pre-rinse processes in place.
- Ensure high quality non-foaming commercial dishwasher detergent has been connected at the correct dosage for your site, water quality and application. If uncertain, consult a chemical specialist.
- Ensure that the wash temperature is between 60°C and 65°C.

Chemical residue on items after the cycle

- Check water pressure, this is likely too low and below the minimum 200kPa required.
- Check that nothing is obstructing the wash & rinse arms.
- Check the rinse fluid dosage is not too high. If uncertain, please consult a chemical specialist.

Dishwasher is foaming

- 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.
- Low water pressure can result in above average detergent concentrations. As low water pressure also impacts rinse results, we recommended this is solved by installing a rinse pump rather than compensating by reducing chemical dosages.

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 a Combi-Oven, 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.

Pawl drive not operating

- Clear the area around the limit switch on the roller table.
- Adjust the clutch tension of the Pawl Drive motor, the Pawl drive clutch tension can be tightened by turning the 2 nuts at the bottom of the pawl drive shaft clockwise or loosened by turning the 2 nuts anticlockwise.

(Note: the tension must be at a level where a person can grab the pawl drive with both hands and stop the pawl drive motion).

Grinding noise escaping from the machine

• Wash pump rotation must be checked after installation to ensure correct direction (excessive noise and damage with incorrect direction). Change phase connection if required.

Machine stops and refills during the commissioning stage

- Fit the curtains according to the Curtain labels on the front of the machine.
- Ensure the Scrap Trays are fitted in the Wash and Prewash Zones.

Operator Use Guide



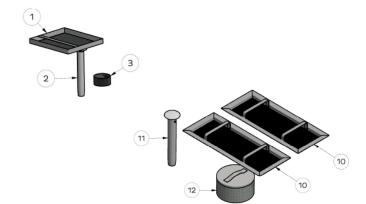
START

- Turn on at wall.
- Prewash Zone:

Fit Wash Pump Filter (3) Fit Drain Upstand(2). Fit Scrap Tray (1).

Wash Zone:

Fit Wash Pump Filter (12). Fit Drain Upstand (11) . Fit Scrap Trays (10).



- Shut all doors and turn wall and Machine Power on.
- Machine begins filling. Full light glows amber when tanks are full.
- Ready light glows amber when the machine is up to required temperature.

OPERATION

- Press Start button to operate machine.
- Cycle light glows green while machine operates.
- Stack one rack with items. Push the rack fully into the inlet zone of the machine. Ensure the rack is pushed fully into the inlet to engage pawl drive.
- Repeat for all consecutive racks

NOTE: Pumps and conveyor will stop operating if the machine is left idle for 2 minutes. To restart the pump and conveyor simply feed a new rack into the inlet of the machine.

SHUT DOWN - END OF EACH DAY

- Press Stop button.
- Switch Power button off.
- Take out Drain Upstands to gravity drain the machine.
- Proceed with Operator Care cleaning instructions.

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

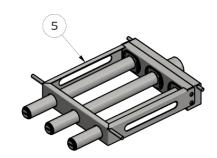
Operator Care - Prewash Zone

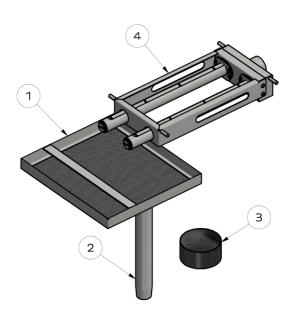
CD180 Prewash Zone

Part #: CD180 Prewash Zone

• Date: 22/04/2022

• Version: 1-A





Daily Cleaning

- Remove Scrap Tray (1) and clean with a brush and water to clear grid.
- Remove Prewash Pump Inlet Filter (3) and clean with a brush and water to clear grid.
- Return Drain Upstand (2), Prewash Pump Inlet Filter (3) and Scrap Tray (1) to the machine.

Weekly Cleaning

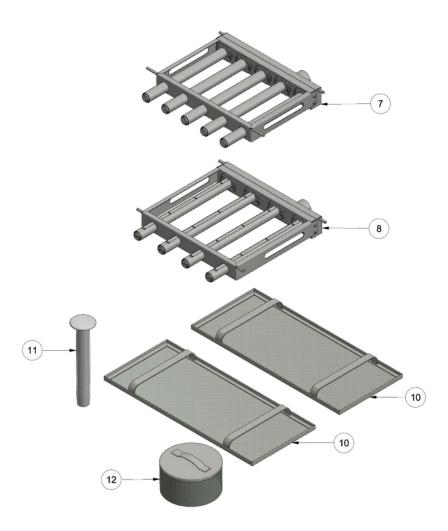
- To be done in conjunction with Daily cleaning.
- Remove Lower Wash Arms (4) lift up to unhook the arm and then withdraw.
- Remove Upper Wash Arms (5) push the locking bar up and then withdraw the arm.
- Check to ensure arms are clear of obstructions. Remove end caps to clear if not.
- Flush Arms (4 & 5) with water. Use a toothpick or paper clip if necessary to clear jets.
- Return Prewash Pump Inlet Filter (3), Drain Upstand (2), Scrap Tray (1), Lower Wash Arms (4) and Upper Wash Arms (5) to the machine.

Operator Care – Wash Zone

CD120 Wash Zone

Part #: CD120 Wash ZoneDate: 22/04/2022

• Version: 1-A



Daily Cleaning

- Remove Scrap Trays (10) and clean with a brush and water to clear grid.
- Remove Wash Pump Inlet Filter (12) and clean with a brush and water to clear grid.
- Return Drain Upstand (11), Wash Pump Inlet Filter (12) and Scrap Trays (10) to the machine.

Weekly Cleaning

- To be done in conjunction with Daily cleaning.
- Remove Lower Wash Arms (8) lift up to unhook the arm and then withdraw.
- Remove Upper Wash Arms (7) push the locking bar up and then withdraw.
- Check to ensure arms are clear of obstructions. Remove end caps to clear if not.
- Flush Arms (7 & 8) with water. Use a toothpick or paper clip if necessary to clear jets.
- Return the Wash Pump Inlet Filter (12), the Drain Plug (11), Scrap Trays (10), Lower Wash Arms (8) and Upper Wash Arms (7) to the machine.

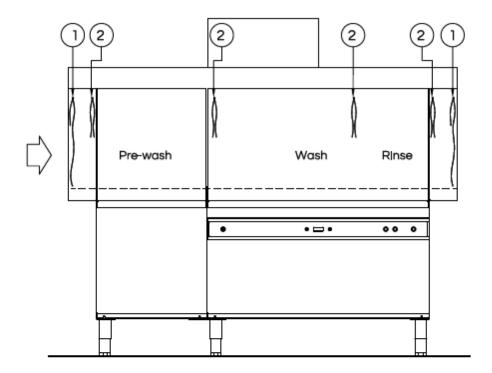
Operator Care - Curtains

CD180L + HRU Curtains

• Part #: CD180L +HRU CURTAINS

• Date: 30/06/2022

• Version: 1-B



Long anti splash curtain 600 x 475 -840 90011

(2) Medium anti splash curtain 600 x 210 -600 90012

This machine is suitable for installation in well ventilated areas with no canopy or direct extraction

The machine is shipped with the curtains at the outer edges of the hoods which is best for both emission control and splash prevention

The curtains must be fitted with short side towards the INLET in the positions shown in this drawing.

Operator Troubleshooting

Issue	Cause										
	POOR PRE-SCRAPING	CARRY OVER OF SOAP FROM SINK	OVERLOADING RACKS	POOR MACHINE CARE	JETS BLOCKED OR ARMS OBSTRUCTED	CURTAINS NOT FITTED CORRECTLY	WATER SUPPLY PRESSURE LOW	POOR WATER QUALITY*	RINSE TEMPERATURE LOW <75°C	LIMIT SWITCH ACTIVATED	WASH ARM NOT FITTED PROPERLY
DISHES NOT CLEAN	1		1	¢	¢		¢	¢	¢		
STAINING	1				1		¢	¢	¢		
FOAMING		l		¢							
PROTEIN BLOOM	¢		¢	l	¢		¢		1		
DIRTY MACHINE	1			1	¢		¢	¢	¢		
FOOD RESIDUE ON WARE	¢		1	¢	¢		l	¢	¢		
FILM/SPOTS ON WARE			¢	¢	¢		¢	1	¢		
DETERGENT RESIDUE					¢	1	¢				
GREASY FILM/NO FIZZ			¢				1	¢			
WET WASHWARE			1	¢			¢				
SCALE BUILD UP IN MACHINE				¢				1			
FILTERS ON OTHER EQUIPMENT								1			
PAWL DRIVE NOT OPERATING										1	
CRASHING SOUND AGAINST DOOR											1

MACHINE STOPS & REFILLS CONSTANTLY

1

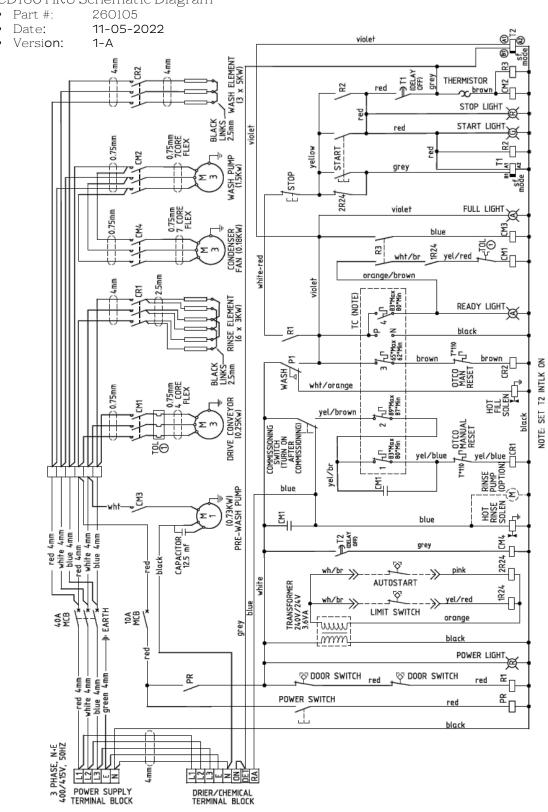
IF PROBLEMS PERSIST CONTACT MOFFAT SERVICE ON 1300 264 217

l Likely cause c Possible cause

^{*} 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

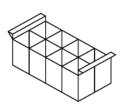
CD180 HRU Schematic Diagram



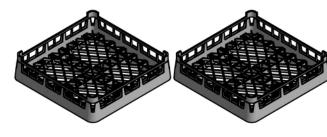
Accessories

CD180 Accessories

Part #: CD180 ACW
Date: 24-05-2022
Version: 1-A



C660508 **CUTLERY BASKET CP8 FOR 500mm**



600 70029 2 x CUPRACK CB 500mm X 75mm high





600 70028 2 x DISHRACK P12/18 500mm 18 DISH





C660503 2 x CUTLERY CONTAINER G

Notes

Notes

Notes

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ISO9001

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

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