Operator's Manual



RR108, RR188 COMPACT

Rack Washers



Australia Tel: 1300 347 944 | **New Zealand** Tel: 0800 902 054 | **Singapore** Tel: +65 9107 8943

INSTRUCTION MANUAL FOR DISHWASHERS



It is important to keep this instruction manual near the appliance for future consultation.

If the appliance is sold or transferred to another user, make sure this manual remains with the appliance so that the new owner is informed about the warnings and operation of the appliance. These instructions are given for safety reasons and they must be read carefully before installing or using the appliance.

GENERAL INSTRUCTIONS

- The appliance must be connected to water and electrical supplies by qualified tradespersons only and according to local regulations.
- The appliance must be used by adults only. Do not let children play with, or operate this machine.
- Only persons trained to use this dishwasher are permitted to operate it.
- This appliance has been designed to wash food preparation and eating utensils. It has NOT been designed to wash objects soiled with petrol, paint, remnants of steel or iron, corrosive chemical products such as acids, alkalis, or solvents or any item that cannot be immersed in water.
- Do not open the appliance door(s) while the appliance is operating. The appliance has a safety device which stops operation if a door is accidentally opened.
- After using the appliance, isolate the electric and water supply.
- Do not attempt to repair the appliance. Repairs made by unqualified persons may cause further damage and will void warranty.
- Repairs and servicing of this appliance must be carried out by Rhima personnel only.

IMPORTANT CUSTOMER INFORMATION

• To request a service, detergents or rinse additive contact your local Rhima Service centre below:

Australia: 1300 347 944

New Zealand: 0800 902 054

Singapore: +65 9107 8943



ELECTRICAL INSTALLATION

This appliance must be connected to an earthed 3-phase electrical switched outlet of an appropriate rating.

PLUMBING INSTALLATION

The Australian installation shall be in accordance with The Plumbing Code of Australia (PCA).

This appliance should be connected to a hot water supply (Max 65°C) for in accordance with Australian Standard AS/NZS 3500.1. for optimum performance.

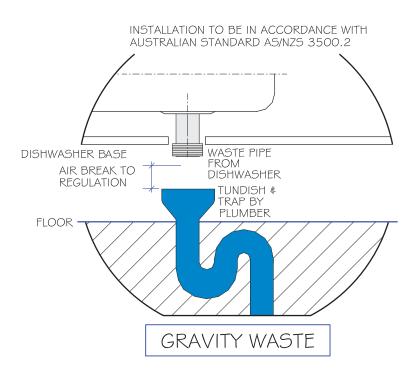
The water supply pressure should be <u>a minimum</u> 200 kPa at all times and flow rate should be at least 15 litres per minute. A static pressure higher than 600 kPa (73.5 psi) requires a pressure reducing valve upstream of the supply line. If water pressure is below 200 kPa, the use of a rinse booster pump is recommended.

This appliance is designed to drain to a tundish. Waste connection to a spigot is not recommended and may cause draining issues.

The drainpipe should withstand 70°C (158°F) in continuous duty conditions.

The grey water drain hose must have a fixed watertight seal above the tundish in accordance with the Australian Standard AS/NZS 3500.2.

A DIAGRAM SHOWING THE CORRECT METHOD OF WASTE INSTALLATION IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS/NZS 3500.2 IS BELOW



VENTILATION

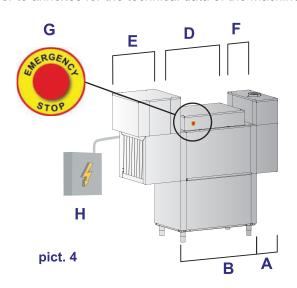
Use extractor fans to guarantee a minimum ventilation of 500 m³/h. Increase the ventilation rate to 1500 m³/h if the machine is equipped with drying system. It is suggested to position the extractor fans close to the machine entry and exit and in correspondence to the heat recovery fans.

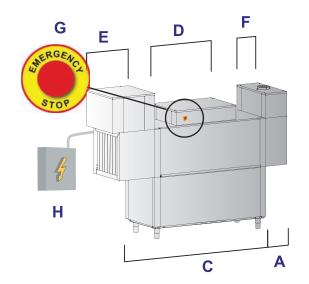
MACHINE DESCRIPTION

Description of the machine, its accessories and its guards

Machine description

Refer to annexes for the technical data of the machines.





Example:

MACHINE IN RIGHT EXECUTION

- A SPLASH GUARD
- **B** WASH + RINSE
- C PRE-WASH + WASH + RINSE
- D CONTROL PANEL
- E DRYER
- F HEAT RECOVERY/STEAM CONDENSER
- **G** EMERGENCY BUTTON
- H WALL-MOUNTED CIRCUIT BOARD

Module		Dimension	
	Width	Height	Depth
A - SPLASH GUARD	300 mm/150 mm		
B - WASH + RINSE	1080 mm	1380 mm	
C - PRE-WASH + WASH + RINSE	1580 mm		720 mm
D - CONTROL PANEL	850 mm	1560 mm	720 111111
E - DRYER	500 mm (600 mm)	1830 mm	
F - HEAT RECOVERY/STEAM CONDENSER	300 mm	1715 mm	

This machine is built with high quality materials in particular AISI 304 stainless steel (AISI 316 for boilers and tanks) and in high thickness to ensure a longer lifetime.

The machine is built in different sections:

Pre-wash module (the presence depends on the model chosen): a preliminary rough washing is carried out with low temperature thermostatically controlled to melt the alimentary residuals and avoid the proteins denaturation.

Wash module: a proper washing of the crockery is performed with temperature thermostatically controlled.

Rinse module: a pre-rinse is performed that removes most of the detergent, then a final rinse is performed with high temperature thermostatically controlled.

Autotimer: the Autotimer function (activated by default) allows stopping the machine if it is in start-mode but not operating at the moment.

It can happen in two cases:

- 1. The machine is working in vain (it is in operation but it is not used).
- 2. The machine is in operation but a baskets accumulation exiting the machine causes the limit switch SQ1 to trip (F1).

In these cases, the timer set by default at 300 seconds trips. When the time is over the energetic saving mode turns on.

By inserting a basket or clearing the exit the machine restarts automatically to operate.

Available options

Dryer E:

It conveys hot and dry air that creates the ideal conditions for the rinse aid action.

Depending on his/her needs the operator can turn on or off the dryer module heating part using the display, during the work.

Heat recovery F:

The goal is the recovery of the steam heat exiting the machine that otherwise would be dispersed, and use it to pre-heat the water entering the boiler.

The machine must have a cold water supply for the rinse.



WARNING: Heat Recovery system and Steam Condenser - installation (optional)
It is strictly forbidden to connect the machine's vent directly with the outdoor!
Cold weather conditions might seriously damage the Thermal Recovery system or the Steam Condenser.

Pressure Increase Pump:

It allows a proper machine operation when the feeding water pressure of the machine is lower than 200 kPa.

Inverter:

It allows adjusting the speed on 5 steps and reaching the DIN speed.

Self-cleaning:

The system allows carrying out an automatic internal machine cleaning and rinsing cycle, when it has finished operating. Specific sanitizing product can be used.

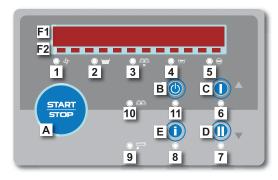
The self-cleaning can be carried out only if:

- The machine is in stand-by
- · The doors are closed
- The tanks are empty.

The display shows the Self-cleaning message.

During the cycle all the other functions are disabled. If there is no electrical supply the cycle will be restarted automatically to ensure a proper execution of the cycle.

CONTROL PANEL AND RELATED SYMBOLS



A: START / STOP key. Function key.

B: ON / OFF key.

C and D: Scrolling keys (▼ / ▲, - / +).

E: INFO key.

F1: Display with scrolling text

F2: Scrolling LEDs bar

MACHINE IN STAND-BY



A: START / STOP key with SELF-CLEANING function.

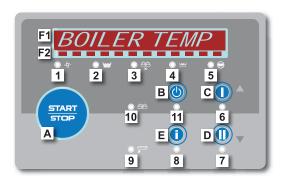
If pressed for 3 seconds the SELF-CLEANING function is activated. See paragraph **Available options** for more information

B: ON / OFF key with ON function.

To turn the machine ON.

F1: Display with scrolling text: provides information about the current status of the machine.

MACHINE READY OR IN OPERATION



A: START / STOP key.

When the machine is ready, it allows the start. The conveyor is activated by pressing this key. When the machine is running, allows stopping and putting in ready mode. The conveyor is stopped by pressing this key.

B: ON / OFF key with OFF function.

Allows putting the machine in STAND-BY mode.



C and D: Scrolling keys (▼ / ▲, - / +)

When in the menu either scrolls the items or modifies all adjustable parameter (increase and/or decrease). When the machine is ready or running: to adjust the conveyor speed.

E: INFO key.

It provides additional information about:

Boiler temperature

Tank temperature

Prewash temperature (if present)

Date

Hour

Factory code

Installed firmware.

It's possible scrolling the menu items by using the C and D keys.

F1: Display with scrolling text. Provides information about the status of the machine, temperatures and other indications. Some messages are displayed alternatively to temperatures. See chapters **FUNCTIONING OF THE MACHINE** and **SIGNALS AND ALARMS** for more information.

F2: Scrolling LEDs bar.

One LED lit: indicate the machine is ON and in operation.

Series of LED lit: indicate the time remaining to the energy saving mode activation. See paragraph **Autotimer**, **Page 5** for more information.

LIGHTS

1: Flashing green: machine ON and in operation

Still green: machine ON in energy saving mode (see paragraph Autotimer, Page 5)

- 2: Green: tanks filled
- 3: Flashing yellow: baskets limit switch activated
- 4: Yellow: tank heating activated
- 5: Still yellow: boiler heating activated

Flashing yellow: intermittent boiler heating activated

- 6: Green: lower speed selection
- 7: Green: higher speed selection

Both 6 and 7 lights are OFF when the machine is equipped with the optional INVERTER and an intermediate speed is selected

8: Green: INFO Menu

9 and 10: unused

11: Green: machine ON

Still red: machine in stand-by mode

Flashing red: alarm

FUNCTIONING OF THE MACHINE

Machine start-up

- Check that the overflow pipes are correctly inserted.
- · Turn on the wall-mounted main switch H.
- · Open the water supply valves.
- Turn on the machine using the control panel.
- · Wait for the filling operations to be completed.
 - Once filling of all the tanks is finished, the heating of the machine starts. In this phase the display shows the message **HEATING** alternatively to temperatures.
- When heating is finished, the display shows the message **READY TO START** alternatively to temperatures. To ensure a proper washing, start the operations after the display shows the message **READY TO START**.

Washing

To set the desired working speed, use keys D ▼ (decrease) and C ▲ (increase) to set a suitable speed for the type of work to be carried out.

There are two possible settings:

Speed 1: minimum.

Speed 2: maximum.

If the machine is equipped with the optional INVERTER, there are five possible settings.

- If the machine is not equipped with an automatic chemicals dispenser, manually introduce the detergent in the wash tank. Carefully follow the instructions of the product manufacturer considering the water hardness. (see chap. **DETERGENTS**).
- Press START / STOP A button to start the conveyor movement.
- · Carry out the cleaning off.

Place the baskets on the conveyor (see paragraph Dishes and cutlery loading - pict. 6 - 7, Page 10).

Push the basket inside the splash guard A until the hooking with the towing system.

The washing sequence is the following:

- ► Low temperature pre-wash (C if there is).
- ► Thermostatically controlled temperature wash B/C.
- ► Final rinse carried out with clean water coming from the hydric network and thermostatically controlled and eventually rinse aid.
- ▶ Drying (**E** if there is the optional module).
- ▶ Baskets exit zone equipped with roller conveyor and limit switch.
- Push the START / STOP A, button to stop the operation.

N.B.: It is recommended to change the tank's water by new filling, when very dirty or, at least, twice a day.



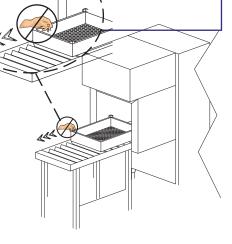
warning: In case a dangerous situation occurs, push the emergency button **G**. The towing system and the absorptions turn off. Before restarting the appliance, check if the emergency is over. The emergency button rearmament does not start the machine but it position the appliance in stand-by.

The emergency button does not have to be used as usual machine / switch off system.

It is forbidden to remove the basket from the machine before it has come out of the tunnel and to insert hands or arms inside the machine when it is in movement (see pict. 5).

Note: Always turn the machine off before inserting your hands or arms inside the tunnel.





STOP



End washing operations

- Press START / STOP A key.
- Press key ON/OFF B.
- · Drain the tanks.
 - Open the doors and remove filters and overflows.
- · Turn off the wall-mounted main switch H.
- Shut the water supply valve(s).
- Start the cleaning of the machine (see chap. MAINTENANCE).

Dishes and cutlery loading

Before loading the dishes it is necessary to carry out a proper cleaning off of the food residuals.

It is not necessary to rinse the dishes with water before the loading.



WARNING: Do not wash items contaminated by petrol, paint, pieces of steel or iron, ash, sand, wax, lubricating grease. These substances damage the machine. Do not wash fragile items or made of material that do not stand the washing process.

Follow these tips:

- Crockery and cutlery must not lie inside one another, covering each other.
- Place the dishes so that all the surfaces can be reached by the water; otherwise the dishes cannot be washed properly.
- Make sure that the dishes are placed in a stable position and that the empty containers (cups, glasses, bowls, etc.) do not turn upside down.
- Place all the empty containers like cups, glasses, etc., upside down.
- Place in tilted position the dishes with deep hollows, so that the water can drain.
- Make sure that the smaller dishes do not fall from the baskets.
- · Check that the dishes are not too tall or protruding.
- Do not wash trays horizontally.

Some food, like carrots, tomatoes, ketchup, may contain natural colorant substances that may alter the dishes and plastic parts if they are in large quantity.

The eventual color alteration does not mean that the plastic is not thermo-resistant.

Dishes to not wash in a dishwasher

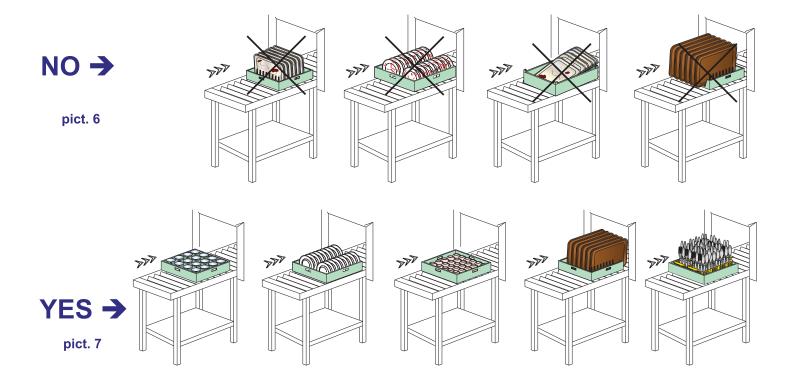
Dishes not suitable to be washed in a dishwasher:

- Wooden crockery and cutlery or with wooden parts; wood wraps and loses its characteristics if it is exposed to high temperatures. In addition the glues used are not suitable for dishwashers; a consequence may be the handles detachment.
- Hand-made objects, valued vases or decorated glasses.
- Plastic dishes not thermo-resistant.
- Copper, brass, pewter or aluminum objects can discolor or become opaque.
- The decorations on glass can lose sparkle after a certain number of washes.
- Fragile glass or crystal objects can become opaque if washed many times.

It is suggested to purchase only crockery and cutlery suitable for washing in dishwashers.

Glasses can become opaque after many washes.

If after the washing the dishes are not clean or they have washing residuals (glasses, cups, bowls, etc., with liquid on the inside) it is mandatory to repeat the procedure.



WARNINGS:

- Do not slam the doors when opening and closing.
- Do not put material or objects on the machine.
- The water used for the washing and the rinsing is not potable because of the presence of chemical additives. In case of contact with skin or eyes wash them immediately with plenty of water and check the safety instructions of the detergent manufacturer. If necessary, contact a doctor.
- Some important rules must be followed for the use of this appliance:
 - 1) Never touch the appliance with wet hands or feet
 - 2) Never use the appliance when barefooted
 - 3) Do not install the appliance in places exposed to water splashes.
- This machine must be disconnected from the main electrical supply after use at the end of the day and for any service/maintenance operation. Switch off the main switch located on the wall, which shall be installed by a professional installer. Shut the water supply valve(s).
- In case an obstacle stops the towing, first switch off the wall-mounted main switch and then remove the cause of the block.

WARNING: INTERNAL CLEANING OF THE MACHINE SHALL BE CARRIED OUT AT LEAST 10 MINUTES AFTER IT HAS BEEN TURNED OFF.

WARNING: DO NOT INSERT HANDS AND/OR TOUCH THE PARTS LOCATED AT THE BOTTOM OF THE WASH TANK AND/OR AT THE END OF THE WASH CYCLE.

WARNING: DO NOT TOUCH THE CONVEYOR WHILE IT IS WORKING.

DETERGENTS

Using detergent

The detergent must be of good quality, of NON-FOAMING type, specific for the mechanical washing of dishes.

The use of liquid detergents is recommended.

The dosing has to be done following the recommendations of the detergent manufacturer and in accordance with the water and dishes characteristics.

The detergent has to be inserted only in the wash tank 1. For manual dosing remember that the wash tank contains about 85 litres of water.

Note: It is forbidden to use detergents with chlorine-based reagents.

Using rinse aid

It is possible to use the rinse aid to get quicker drying and polishing.

The dosing has to be done following the recommendations of the rinse aid manufacturer and in accordance with the water characteristics.

Note: too much chemicals produces foam that reduces the effectiveness and lifetime of the washing pump.

Too much chemicals might leave residuals on the dishes.

Using sanitizing

It is forbidden to use sanitizing products with chlorine-based reagents.

Detergents and sanitizing products used to clean the machine must be properly prewashed.

It is forbidden to use generic detergents to clean the machine.

AIRBORNE NOISE EMISSIONS

The machine has an average sound pressure between 70dB(A) and 80dB(A) depending on its configuration.

Machine with one tank without dryer optional	68dB(A)±2.5 dB(A)
Machine with two tanks without dryer optional	70dB(A)±2.5 dB(A)
Machine with dryer optional	72dB(A)±2.5 dB(A)

OBSERVANCE OF THE RULES OF HYGIENE AND H.A.C.C.P.

In order to meet the correct H.A.C.C.P. procedures remember to prepare a sheet with tables where the shift operator enters the date and time the washing starts, the time the washing ends, the tanks and boilers temperatures and any other note/ alarms that have tripped and what he/she has done to ensure sanitary safety.

This is the reason why the machine is equipped with:

- Temperature gauges that indicate the boiler and tank temperature.
- · Malfunctioning gauges.
- · Possibility to consult the washing parameters.

MAINTENANCE

WARNING: The machine is not protected against pressure water jets, therefore avoid the use of this type of cleaning system on the cabinet.

It is also suggested to contact cleaning product dealers for detailed information about methods and products for a periodical sanitizing of the machine.

Do not use bleach or chlorine-based detergents to clean the machine.

Routine maintenance

The perfect operation of the machine depends on a careful cleaning that is necessary at least once a day with the following procedure:



- Turn off the machine as explained in the par. End washing operations.
- With empty tank, extract the filters of the tanks and the pumps (see photo 1). Be careful that the washing residuals in the filters do not fall in the tanks. Clean the filters with a rigid brush underneath a powerful water jet.
- Extract the wash (see photos 2 and 3) and the rinse arms (see photo 4) and carefully clean the nozzles and the dome filters of the rinse nozzles underneath running water (see pict. 8).

Photo 1



Photo 2



Photo 3



Photo 4

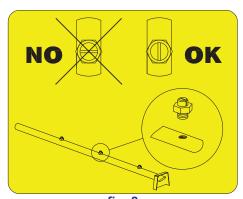


fig. 8

- Carefully clean the tanks avoiding the use of chlorine-based detergents.
- Clean the shutters (long on the outside, short on the inside).
- Clean the entry and exit shelves.
- Reassemble all the parts and replace the arms in their seats.
- It is suggested to leave the doors of the machine open at the end of the day.

Do not use a metal scouring pad and/or corrosive products to clean the dishwasher.

Do not use pressure cleaning systems.

Extraordinary Maintenance – by qualified Service Personnel only

Once or twice per year, the machine should be checked by qualified Service Personnel:

- Remove scaling from the heating elements
- · Check the status and the tightness of all gaskets
- Check the perfect state and/or wear of the components
- · Check the efficiency of the dispensers
- Tighten firmly all electrical connections at least once per year
- · Clean the intake filter of the solenoid valve
- Check the state of the safety devices of the doors/boilers, limit switches
- · Check the calibration of the clutch.

Pay attention to do not wet the motor or any electric part. Perform maintenance with the wall-mounted main switch turned OFF.

Extraordinary Maintenance - Heat Recovery or Steam Condenser optional

Every three months the Heat Recovery should be checked by qualified Service Personnel to:

Clean the finned exchanger inside the Heat Recovery.

Extraordinary Maintenance - Pressure Increase Pump option

After long periods of inactivity of the dishwasher, check that the supplementary pressure increase pump freely rotate.

ENVIRONMENTAL ASPECTS

Packing

The packing consists of the following:

- a wooden crate;
- extensible belt in nylon (LDPE);
- polystyrene foam (PS).

Please dispose of the materials listed above, according to the current regulations.

Disposal



pict. 9

The symbol WEEE used on this product indicates that it cannot be treated as domestic waste. Proper disposal of this product contributes to protecting the environment. For more information on product recycling, contact the local authorities, domestic waste authorities or the shop where the product was purchased. For product or part disposal, follow the Council directives 2011/65/EU and 2012/19/EU as amended and/ or application legislative decrees.

The present product or parts can not be disposed of as urban waste but shall be collected in separate containers (see the waste bin on wheels symbol - pict. 9 - with an "X" on the product).

At the time of product disposal, the user shall refer to the waste electrical and electronic equipment (WEEE) specification.

The manufacturer guarantees the absence of dangerous substances in the EEA used in conformity to the directive 2011/65/EU. If the user does not comply with the regulations he/she shall be subject to the penalties foreseen by each member state. Disconnect electricity and water before disposal.

Cut the electrical cable to ensure that further use is impossible.

All metal parts are recyclable as they are made of stainless steel.

Recyclable plastic parts are marked with the plastic material symbol.

ECOLOGICAL ASPECTS

Recommendations for optimum use of energy, water and additives

If possible, use the machine at full load: This will avoid wasting detergent, rinse aid, water and energy.

Detergents and rinse aids: Use detergents and rinse aids having the highest biodegradability so that the environment is better respected. Have the correct dosage according to the water hardness checked at least once a year. An excess of product pollutes rivers and seas, whereas an insufficient amount compromises dish washing and/or hygiene.

Tank and boiler temperatures: The temperatures of the tank and boiler are set by the manufacturer so as to get the best washing results with the majority of detergents on the market. These can be reset by the installer according to the detergent used.

Cleaning off: Carefully clean off the kitchenware using water at ambient temperature with moderation so as to make removal of animal fats easier. To remove encrusted matter, soaking in hot water is recommended.

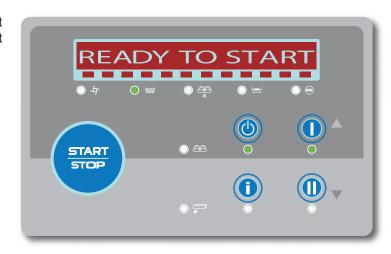
Notes: Wash the objects as soon as possible in order to prevent the deposits from drying and jeopardizing the effectiveness of the washing. To get an efficient wash, it is advisable to regularly clean and maintain the dishwasher (see chap. MAINTENANCE).

Non-compliance with the above points and all the information described in this manual could determine a waste of energy, water and detergent, with consequent increase in operating costs and/or decrease in performance.

SIGNALS AND ALARMS

During the operation, the machine visualises the current status of the machine, the alarms and other situations that need the operator attention.

Example: machine ready to start with a running alarm:



Signals

The signal messages are displayed and signalized with a beep.

When **DETERGENT LEVEL** appears on the display it means that the detergent is over.

When RINSE-AID LEVEL appears on the display it means that the rinse aid is over.

When **MISSING SANITIZING CHEMICAL** appears on the display it means that the sanitizing product is over (only on machines equipped with the **SELF-CLEANING** optional).

When **DOOR OPEN** appears on the display it means that you are trying an operation that cannot be done with the door opened or that you opened the door and interrupted a cycle in progress.

When **DRAIN THE TANKS** appears on the display it means that you are trying an operation that cannot be done with the tanks full.

When **FREE THE OUTLET** appears on the display it means that it is necessary to remove the baskets from the exiting shelf to continue the operation.

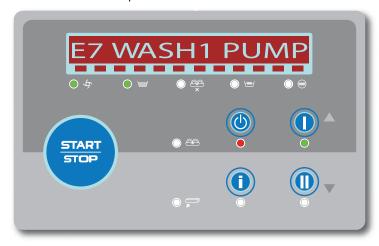
Signal screen example:



Alarms

The alarms are displayed with an alphanumeric code followed by a brief description.

Alarm screen example:





Alarms description

Alphanumeric abbreviation	Alarm description
B2	BOILER 1 PROBE FAILURE
B3	BOILER 1 HEATING FAILURE
B5	BOILER 1 OVERTEMPERATURE
B10	RINSE LOW TEMPERATURE
E1	WASH TANKS FILLING FAILURE
E2	WASH1 PROBE FAILURE
E3	WASH1 HEATING FAILURE
E5	WASH1 OVERTEMPERATURE
E7	WASH1 PUMP THERMAL PROTECTION
M1	PREWASH FILLING FAILURE
M2	PREWASH PROBE FAILURE
M3	PREWASH COOLING FAILURE
M7	PREWASH PUMP THERMAL PROT.
U10	OPTIONAL MOTORS THERMAL PROT.
W1	THERMAL PROTECTION
Z 8	GENERAL ALARM
Z 16	SELF-CLEAN. WATER SUPPLY FAIL.
Z17	RINSE WATER SUPPLY FAILURE

ALARM B2 BOILER 1 PROBE FAILURE

Rated temperature cannot be reached.

It's recommended to suspend the washing.

Please contact the Rhima Service Department.

ALARM B3 BOILER 1 HEATING FAILURE

Please turn **OFF** the appliance, by pressing the **ON/OFF B** button, and turn it **ON** again, after a few seconds. Should the alarm persists, please contact the Rhima Service Department.

ALARM B5 BOILER 1 OVERTEMPERATURE

It is recommended to turn **OFF** the appliance and contact the Rhima Service Department.

ALARM B10 RINSE LOW TEMPERATURE

Please make sure that rinse arms and nozzles are in the right position.

Should the alarm persists, please contact the Rhima Service Department.

ALARM E1 WASH TANKS FILLING FAILURE

Please check that water inlet connection is working.

Please turn OFF the appliance, by pressing the ON/OFF B button, and turn it ON again, after a few seconds.

Should the alarm persists, please contact the Rhima Service Department.

ALARM E2 WASH1 PROBE FAILURE

Washing results may be affected.

Please contact the Rhima Service Department.

ALARM E3 WASH1 HEATING FAILURE

Please turn **OFF** the appliance, by pressing the **ON/OFF** B button, and turn it **ON** again, after a few seconds.

Should the alarm persists, please contact the Rhima Service Department.

ALARM E5 WASH1 OVERTEMPERATURE

It is recommended to turn **OFF** the appliance and contact the Rhima Service Department.

ALARM E7 WASH1 PUMP THERMAL PROTECTION

It's recommended to suspend the washing.

Please contact the Rhima Service Department.

ALARM M1 PREWASH FILLING FAILURE

Please check that water inlet connection is working.

Please turn **OFF** the appliance, by pressing the **ON/OFF B** button, and turn it **ON** again, after a few seconds.

Should the alarm persists, please contact the Rhima Service Department.

ALARM M2 PREWASH PROBE FAILURE

Washing results may be affected.

Please contact the Rhima Service Department.

ALARM M3 PREWASH COOLING FAILURE

Please check that the cold water inlet connection is working.

Please turn **OFF** the appliance, by pressing the **ON/OFF** B button, and turn it **ON** again, after a few seconds.

Should the alarm persists, please contact the Rhima Service Department.

ALARM M7 PREWASH PUMP THERMAL PROT.

Washing results may be affected.

Please contact the Rhima Service Department.

ALARM U10 OPTIONAL MOTORS THERMAL PROT.

Please contact the Rhima Service Department.

ALARM W1 THERMAL PROTECTION

Please contact the Rhima Service Department.

ALARM Z8 GENERAL ALARM

Emergency button pressed.

Make sure that the emergency is solved.

To resume working, release the emergency button.

WARNING: the emergency button should not be used as ordinary mean to turn the appliance ON/OFF.

ALARM Z16 SELF-CLEAN. WATER SUPPLY FAIL.

Please check if the water supply is working and make sure that self-cleaning arms are in the proper position.

Please turn **OFF** the appliance, by pressing the **ON/OFF B** button, and turn it **ON** again, after a few seconds.

Should the alarm persists, please contact the Rhima Service Department.

ALARM Z17 RINSE WATER SUPPLY FAILURE

Please check if the water supply is working and make sure that rinse arms and nozzles are in the proper position.

Please turn **OFF** the appliance, by pressing the **ON/OFF B** button, and turn it **ON** again, after a few seconds.

Should the alarm persists, please contact the Rhima Service Department.



Type of problem	Possible causes	Cure
The machine does not start	Main switch turned off	Turn on the main switch
	Card transformer fuse blown	Contact Rhima Service Department to replace the fuse
The machine does not load water		Open the water supply valve
The state of the s	Shortage of supply water	
	pressure	or install a booster pump
	Solenoid valve filter clogged with	Contact the Rhima Service Department to clean the
	sand	the filter.
Inadequate washing results	The washing nozzles are clogged	Clean the nozzles and correctly reposition the arms in
		the proper seats
	Detergent concentration too low	Change the dosage of detergent
	Filters too dirty	Remove and clean the filters with a brush under a jet
		of water, then replace them in their seats
	Presence of foam	Always use a non-foaming detergent. Check the
		detergent and rinse aid dosages and reduce them if
		necessary.
	Check the tank temperature	Adjust the temperature set for the washing. Contact the
		Rhima Service Department to check the correct operation of the heating element
	Washing duration not sufficient	Select the lowest speed or repeat the washing cycle
	for the type of dirty	Select the lowest speed of repeat the washing cycle
	Washing water too dirty	Drain the water of the tanks, clean the filters. Reload
	washing water too dirty	the tank and replace the filters properly
	The machine doesn't rinse	Contact the Rhima Service Department.
The objects are not dried properly		Check the dosage of rinse aid and increase it if
The objects are not already properly	modification and docago	necessary
	Baskets unsuitable for the objects	Use a basket suitable for the objects
	Rinse water temperature too low	Check the temperature of the water entering the system
Streaks or smears on the objects	Rinse aid concentration too high	Always use a non-foaming detergent. Check the
Í		detergent and rinse aid dosages and reduce them if
		necessary.
	Water too hard	Check the water quality. The water hardness must not
		be higher than 8°f
	The machine is connected to an	· ·
suddenly stops	overloaded system	the machine separately.
	A machine safety device tripped	Contact the Rhima Service Department to check the
		security devices.
	The water of the previous day	Empty the tank and carry out a new filling
machine stops and replenishes		
the water	Faulty pressure switch	Contact the Rhima Service Department.
	Overflow/drain pipe positioned	Remove and correctly reposition the overflow/drain
	incorrectly	pipe.
	foam or lack of curtains/splash	Reduce the concentration of rinse aid/detergent or correctly reposition the curtains or the other guards that
	guards	may have been removed
	Wash arms incorrectly positioned	
	vvasiranns incorrectly positioned	oncor and correctly reposition the wash aims

Type of problem	Possible causes	Cure
The machine does not wash and	The pump direction is inverted	Contact the Rhima Service Department.
the pump is noisy on machines	due to incorrect connection of the	
with three-phase pump	power supply cable	
	The level of water inside the tank	Remove and correctly replace the overflow/drain pipe.
	is too low	Correctly reposition the curtains or the other guards
		that may have been removed
		Check and correctly reposition the wash arms
		If the level of water continues to fall, contact the
		Rhima Service Department.
	The suction of the pump is	Check if the suction filters of the pump (placed in the
	clogged	tanks) are clogged. If the problem persists contact the
		Rhima Service Department.

OPTIONALS PROBLEMS, CAUSES AND CURES

Heat Recovery

Type of problem	Possible causes	Cure
Low boiler temperature	Dirty steam coil	Should the alarm persists, please contact the Rhima
		Service Department to clean the Heat Recovery
	The ventilation motor is damaged	Contact the Rhima Service Department.
The objects are not dried properly	Insufficient rinse aid dosage	Verify the rinse aid dosage and increase it, if needed
	The basket is not suitable to the	Use basket suitable for the objects
	objects	
	Dirty steam coil	Should the alarm persists, please contact the Rhima
		Service Department to clean the Heat Recovery

Dryer

Type of problem	Possible causes	Cure
The objects are not dried properly	Cold air is emitted	Contact the Rhima Service Department.
	The fan direction is inverted	Contact the Rhima Service Department.
	due to incorrect power cable	
	connection	

Pressure increase pump

Type of problem	Possible causes	Cure
Inadequate washing results	The machine doesn't rinse	Contact the Rhima Service Department.

Break Tank

Type of problem	Possible causes	Cure
Inadequate washing results	The machine doesn't rinse	Contact the Rhima Service Department.
	Water capacity not sufficient	Verify the static pressure

N.B.: For any other problems, contact the Rhima Service Department. The Manufacturer reserves the right to modify the technical characteristics without prior notice





Australia New Zealand Singapore

Tel: 1300 347 944 Tel: 0800 902 054

Tel: +65 9107 8943

DETERGENTS

To request detergents or rinse additive contact your local Rhima Service centre below:

Australia: 1300 347 944

New Zealand: **0800 902 054** Singapore: **+65 9107 8943**



Superwash

10L Drum

For all other washing







