

maidaid  halcyon

Evolution

1010 & 2020

Installation and Users Manual

All spares available from



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Chap 1 PREFACE

Failure to follow the instructions provided in the attached documentation may jeopardize safety of the appliance and immediately cancel the warranty.



The warnings contained in this manual provide important information regarding safety during the various installation, operation and maintenance stages.

- Carefully store all documentation near the appliance; give it to the technicians and operators who will be using it. **It is the operator's duty to read, understand and learn this manual before starting any operation on the machine.** The appliance is intended for the professional washing of dishes for dining facilities. Therefore, installation, use and maintenance must always be performed by trained personnel who follow the manufacturer's instructions. Do not leave within the reach of children. The choice of materials, construction in conformity with EC safety directives and complete testing ensure the quality of this machine.

The manufacturer declines all responsibility for damage to property or injuries to persons deriving from failure to comply with the instructions given or from improper use of the machine.

Chap 2 INSTALLATION

Proper installation is essential in order for the machine to operate properly. Some of the data needed for machine installation can be found on the data plate placed on the right side of the machine and in duplicate on the cover of this manual.



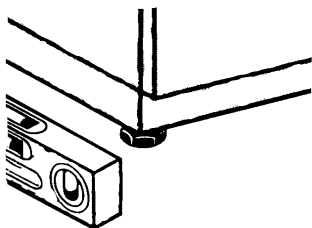
Only qualified, authorised technicians must install the machine.

2.1 Unpacking

Check that the packing is in perfect condition and write down any damage found on the delivery note. After you have removed the packing, **make sure the appliance is intact.** If the machine is damaged, immediately notify the dealer by fax or by registered letter with advice of receipt and the haulage contractor that transported it. If the damage is such as to jeopardize machine safety, do not install and/or use it until a qualified technician services it.



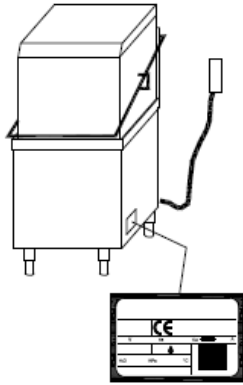
The packing components (plastic bags, foam polystyrene, nails, etc. ...) must not be left within the reach of children and pets as they may be dangerous.



2.2 Positioning

- Check that there are no objects and materials in the installation area that can be damaged by steam that may exit the machine during operation, or at least that they are sufficiently protected.
- In order to ensure stability, install and balance the machine on its four feet.
- Different installation solutions must be agreed upon and approved by the manufacturer.

2.3 Electrical connection

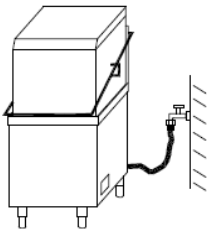


- There must be an omnipolar type of main switch that disconnects all contacts, including the neutral, with a distance of at least 3 mm between the open contacts and with safety circuit breaker tripping or connected with fuses, to be sized or calibrated in conformity with the power indicated on the machine's data plate.
- The main switch must be located on the electric line close to the place of installation, and it must serve only one appliance at a time.
- Electric network voltage and frequency must coincide with those given on the data plate.
- **There must be an effective earthing system in conformity with the prevention standards in force for operator and equipment safety.**
- The power supply cable (type H07RN-F only) must not be pulled or crushed during normal operation or routine maintenance.
- The unipotential terminal fastened to the body must be connected to a unipotential cable having a section suited to the application.
- **Respect the polarities indicated in the wiring diagram.**
- Consult the enclosed wiring diagram for additional information.



Do not use adaptors, multiple socket outlets or cables of inadequate type and section or with extension connections not compliant with plant engineering standards in force.

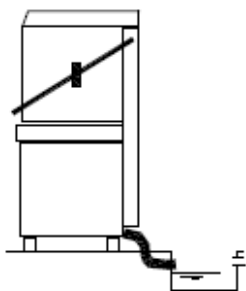
2.4 Plumbing connection



The appliance is to be connected to the water network with a hose. There must be a slide on-off, ball or gate valve **able to quickly and completely turn off the water if necessary** between the water network and the appliance's solenoid valve. The on-off valve must be on the line near and just before the appliance.

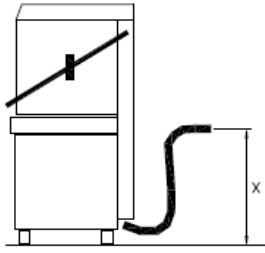
- If the system is new or nearly so, let the water run a long time before making the connection.
- The water supply, temperature and pressure **must be compatible** with what is indicated on the machine's technical data plate.
- If the water's hardness is greater than 14° F (8 dH), we recommend you install an external water softener upline of the solenoid valve.

2.5 Connection to the drain line



Free drain

- **The drain line must be made up of a free water trap** of a size proportionate to the delivery of the drain pipe supplied with the machine. The pipe must be able to reach the water trap **without being pulled, squeezed, bent, crushed, pressed or forced in any way.**
- The tank empties by gravity, so the drain must be at a **lower level than the base of the machine.**



- If the drain is not at a lower level than the base of the machine, you can use the version equipped with a discharge pump (available on request).
- In this case the maximum drain height is 1 m.
- Always check that the drain works properly and that it is not clogged.
- All other solutions must be previously agreed upon and approved by the manufacturer.

With discharge pump (available on request)

2.6 Rinse aid and detergent



- Rinse aid is dispensed by the hydraulic dispenser installed standard on the machine.
- Dispensing of detergent is manual, even if installation of an automatic dispenser is always recommended.
- Dispensing is established based on water hardness by the installation technician, who will also calibrate the dispensers.
- **The level of liquids in the container must be high enough that it can be drawn. It must never empty completely, or be topped off with corrosive or impure products.**

Chap 3 RISKS AND IMPORTANT WARNINGS

- This appliance is to be used only for the use for which it was expressly designed. All other uses are to be considered unfit and therefore dangerous.
- **The specialised personnel who will install the machine are obliged to appropriately instruct the user on the appliance's operation and any safety measures that are to be complied with, also by providing practical demonstrations.**
- Any type of service done on the machine, also in case of failure, must be performed only by the manufacturer or by an authorised service centre and by qualified personnel, **using only original spare parts**.
- Always disconnect or separate the machine from the electric and water networks before performing maintenance, repairs or cleaning.
- Untrained personnel must **NOT** use the machine.
- The machine must **NOT** remain powered on when it is not in use.
- **NEVER** open the machine door quickly if it has not finished the cycle.
- **NEVER** use the machine without the factory-installed safety attachments.
- **NEVER** use the machine for washing object of a type, shape, size or material not guaranteed for machine washing or not perfectly intact.
- **NEVER** use the appliance or its parts as a ladder or support for people, things or animals.
- **NEVER** overload the open door of front-loading machines, which are sized to support only the rack loaded with kitchenware.
- **NEVER** immerse bare hands in the washing solutions.
- **NEVER** turn the machine over after installation.
- If you notice a malfunction or leakage of liquids, immediately disconnect the electricity and shut off the water supply.

THE FOLLOWING IS ALSO IMPORTANT:

- Never start a wash programme without the overflow in the tub.
- Before you drain the tub, make sure you shut off the machine.
- Never place magnetic objects near the machine, it may start even when the door is open.
- Do not use the upper part of the machine as a support surface.
- The machine may not be used by persons who are unauthorized or who have not been properly trained.
- The installation technician is required to check for proper earthing.
- When testing is complete, the installation technician must issue a written statement concerning correct installation and testing in accordance with all standards and acceptable working practices.

Chap 4 MACHINE USE

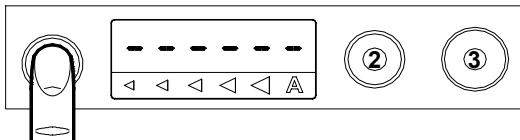
To simplify the description of the various functions, the layout of the control panel is shown below, with the name of each key or indicator light and the corresponding numbers. The figures to which reference is made are included and the beginning of the manual. In the description of the operation of the machine, reference is always made to these numbers or names.

4.1 Legend

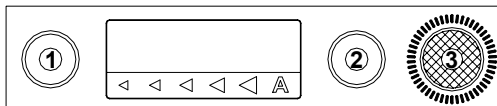
Fig.1 shows:

1	ON/OFF BUTTON	4	INFORMATION DISPLAY
2	PROGRAMME SELECTION BUTTON	5	TIME BAR
3	START BUTTON		

4.2 Starting



- Turn on the main electrical switch and open the external water tap.
- Check that there is enough detergent and rinse aid in the tanks.
- Check the presence of the overflow (when included).
- Press the **ON/OFF** key (1) as shown alongside



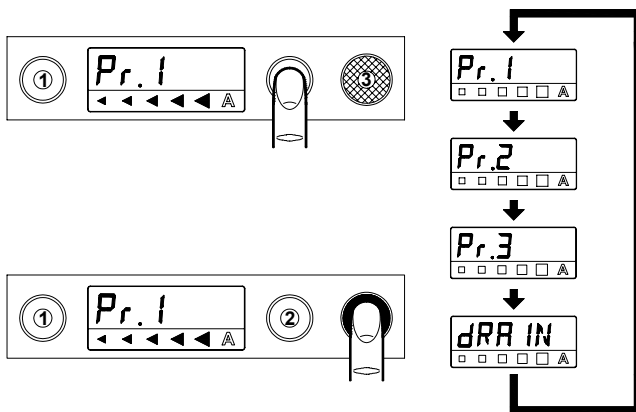
- The machine will automatically start filling. The **START** button (3) flashes. When the machine is ready, the button turns green and the time bar illuminates completely (**Fig.2**).

4.3 Washing cycle

With reference to **Fig.3**, for correct operation of the machine, it is advisable to follow these rules:

- Use a suitable rack, filling it without overloading it and without placing the dishes one on top of the other. **Always clean off the dishes beforehand**, and do not load dishes with dry or solid residue on them.
- Place empty containers upside-down on the rack. Put the plates and similar kitchenware into the special inclined rack, with the internal surface facing upwards.

- Put mixed silverware into the special basket with the handles facing downwards.
- Wash the dishes immediately after use, in order to prevent any residuals from hardening and sticking on them.
- Load the rack into the machine and close the door.
- To avoid breakage, use only dishes that are intact and guaranteed for machine washing.
Do not place silver and stainless steel cutlery in the same basket, since this would cause the silver to tarnish and the steel to corrode.



4.4 Cycle selection and start-up

- Based on the type of dishes and their conditions, three types of cycles are available. (**Fig.4**).
- Select the wash cycle that is suited for the dishes to be washed. Repeatedly press the key **PROGRAMME SELECTION** key (2) to show the selected cycle on the display.
- To start the programme, press the **START** button (3) as shown alongside.
- During the cycle, the key turns blue (**Fig.5**) and the time bar shows the progress of the cycle.

- The cycle ends with two short beeps. The **START** key (3) of the selected programme returns to green and the display shows the message 'END'. The time bar flashes.
- A few seconds after start-up, it is possible to start the wash cycle in advance by pressing the **START** key (3).
- In order to get rapid drying, immediately remove the rack from the machine at the end of the cycle.
- As indicated in **Fig.5** led "A" means that for the next cycles, just close the hood and washing starts automatically
- To de-activate this function, with the door open, press and hold the **START** key (3) for five seconds.

4.5 Turning off the machine

- Press the button **ON/OFF** (1). The machine will shut off. On the **DISPLAY** (4), the middle segments will stay on to show that the machine is powered up. Then, always disconnect the main power supply up the line from the machine.

4.6 Removal of integral filter

1. Turn off the machine.
2. Place the wash and rinse arms at a right angle to the edge of the door (**Fig.6**).
3. Raise each semi-filter, grasping it by the handle.

4.7 Emptying the machine

4.7.1 Machine without drain pump

- Turn off the machine. Disconnect the electricity and shut off the water.
- Remove the integral filter (**Fig.6 A**).
- Extract the overflow by pulling upwards (**Fig.7 B**), and wait for the tub to drain completely.

If necessary, extract the tub filter and clean (**Fig.7 C**).

4.7.2 Machine with drain pump

1. With the machine on (**Fig.4**), press the **PROGRAMME SELECTION** button (2) until you see the message '**DRAIN**'.
2. Remove the integral filter (**Fig.6 A**).
3. Extract the overflow (**Fig.7 B**), close the door.
4. Press the **START** button (3).
5. The machine turns off at the end.

If necessary, extract the tub filter and clean (**Fig.7 C**).

4.7.3 Machines with partial draining: self-cleaning cycle and final draining

- Remove the basket from the machine.
- With the machine on (**Fig.4**), press the **PROGRAMME SELECTION** button (2) until you see the message '**DRAIN**'.
- Press the **START** button (3).
- The machine will start a special wash sequence begins which makes it possible to clean and drain the tub.
- The machine turns off at the end.

If necessary, extract the tub filter and clean (**Fig.7 C**).

4.8 Resin regeneration

4.8.1 Machine with external water softener

In machines equipped with an external water softener, after a certain number of cycles, the display will show the message '**SOFT. MAINT.**'. This indicates that the resins of the external softener must be regenerated.

This signal remains even when the machine is off. To eliminate it, press and hold, *for at least five*

seconds, with the machine off and the door open, the **START** key (3).

4.9 End of service

- At the end of the day always drain the machine as described in the “Machine draining” section.
- **Disconnect the power supply by means of the main switch and close the external water cock.**
- Perform routine *mainten***ance** and clean the machine as described in the “Maintenance” section.
- If possible, leave the door ajar to prevent the formation of unpleasant smells inside.

Chap 5 MAINTENANCE



Before performing any maintenance, drain all water, disconnect the electrical power supply, and close the external water cock.

5.1 Cleaning and hygiene

To ensure machine hygiene, **periodically perform the maintenance tasks** listed below. Also carry out a periodical sanitising treatment with suitable non-corrosive products available on the market.

5.2 Maintenance of filtering group

Carry out this procedure at the end of the day when you see residual dirt on the filters:

1. Remove and clean the baskets.
2. Remove the tub as per the instructions in the paragraph on draining the machine.
3. Carefully clean the integral filter.
4. Thoroughly clean the tank and machine with non-abrasive disinfectant products.
5. Remove the standard filter by pulling it upwards as shown in **Fig. 7 C** and clean it carefully.
6. Do not use abrasive products or objects for cleaning the steel tank. Instead use a slightly soapy damp cloth.
7. Do not use pressurised jets of water because they could damage the electric system.
8. When finished with the described tasks, carefully reposition each part.

5.3 Cleaning of wash arms

The wash and rinse arms can easily be removed to allow periodic cleaning of the nozzles so as to prevent possible clogging and/or deposits.





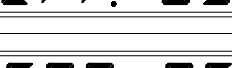
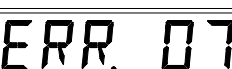
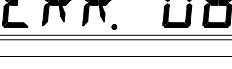
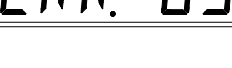

Proceed as follows (**Fig.8**):

- Unscrew ring nut **R** and release the arms.
- Wash all parts with running water. Clean the nozzles carefully, using a toothpick or small tools if necessary.
- Clean the arm rotation pins in the machine and the washing and rinsing water outlet area.
- Put the arms back in place and check that they rotate freely.

Chap 6 SELF-DIAGNOSIS

The machine is equipped with a self-diagnosis system that can detect and signal a series of malfunctions.

CAUTION! Turning the machine off and then back on resets the signal, which will appear subsequently only if the problem has not been resolved. If the signal persists, contact a qualified technician.

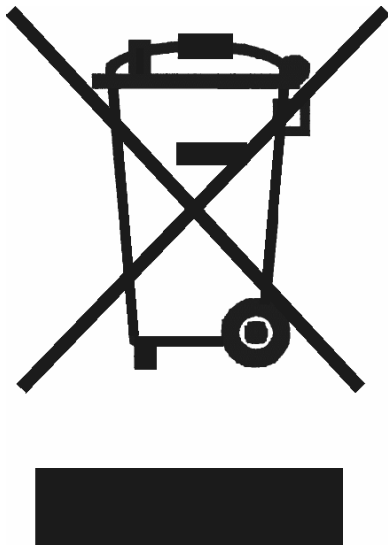
<i>Message displayed</i>	<i>Anomaly or alarm discovered</i>
	Rinse not performed (Only versions CRP-SP). This signal appears at the end of the cycle if the working level in the tub is not correctly restored. Check whether the plumbing connections are correct, and that the water supply cock is open. If the problem persists, contact technical service.
	Water drainage anomaly. Water does not drain or drains abnormally. Check to see if the overflow has been removed. Check the drain tube is not bent or crushed, and that none of the filters are clogged. Run another drain cycle. If the problem persists, contact technical service.
	Boiler temperature reset anomaly. The boiler temperature reset has not occurred within the time limits set forth in the wash cycle. Turn the machine off and then back on and run another cycle. If the problem persists, contact technical service.
	Tub filling time out: the tub has not filled. Check whether the plumbing connections are correct, and that the water supply cock is open. Check the presence of the overflow. If the problem persists, contact technical service.
	Tub thermometer anomaly. (Probe open) The machine does not measure the temperature in the tub. Turn the machine off and then back on. If the problem persists, contact technical service.
	Tub thermometer anomaly. (Probe shorted out) Interrupt the programme in progress, and shut off the dishwasher. Turn it back on after a few minutes and start the cycle again. If the problem persists, contact technical service.
	Boiler thermometer anomaly. (Probe open) The machine does not measure the temperature in the boiler. Turn the machine off and then back on. If the problem persists, contact technical service.
	Boiler thermometer anomaly. (Probe shorted out) Interrupt the programme in progress, and shut off the dishwasher. Turn it back on and start the programme again. If the problem persists, contact technical service.
	Boiler fill time out: failure of boiler to fill. Rinsing cannot be performed. <ul style="list-style-type: none"> • Check that the water supply tap is open. • Run another complete cycle. If the problem persists, disconnect the electricity and contact technical service.
"HI T° TK"	Tub temperature too high.
"HI T° BO"	Boiler temperature too high.
"SAFE"	Electromechanical safety: the safety thermostats of the boiler or tub have tripped, or the tub safety pressure switch has intervened. Contact a technical service centre.
"SAFE"	Incorrect tub level: the tub pressure switch has detected a level of water in the tub that is too high or too low. Contact a technical service centre.

Chap 7 DISPOSAL

There are no materials on our machines that require special disposal procedures.

7.1 Information for users

in accordance with art. 13 of Legislative Decree dated 25 July 2005, no. 151 "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, concerning reduction of use of hazardous substances in electrical and electronic equipment, and disposal of waste"



- The symbol showing a barred-out dustbin on the appliance or its packaging indicates that, at the end of its life cycle, the product must be collected separately from other waste.
- Separate waste collection of this appliance at the end of its life cycle is organized and managed by the manufacturer. The user who wishes to dispose of this appliance should therefore contact the manufacturer and comply with the procedures established to allow separate collection of the appliance at the end of its life cycle.
- Proper separate waste collection for subsequent recycling, handling and ecologically friendly disposal helps to prevent possible negative effects on the environment and on health and favours the reuse or recycling of the materials that the appliance is made of.
- Abusive disposal of the product by the owner may result in the application of penalties as set forth by current law.