

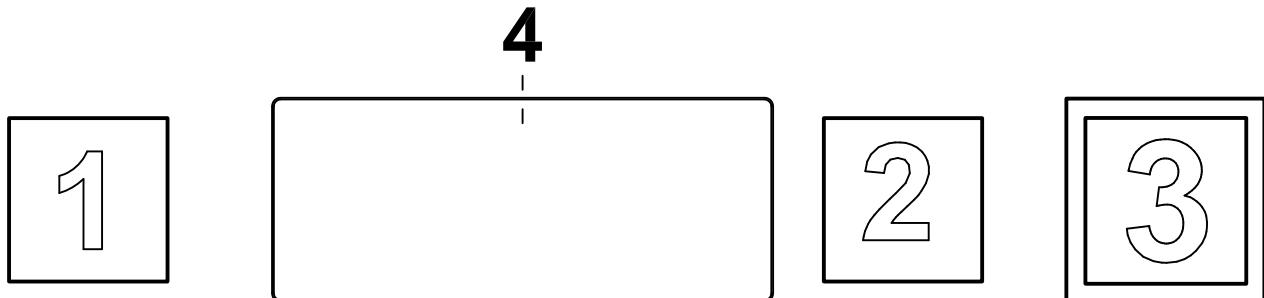
01/2016

# Mod: DCR49/6-AC

Production code: TT3923SBE



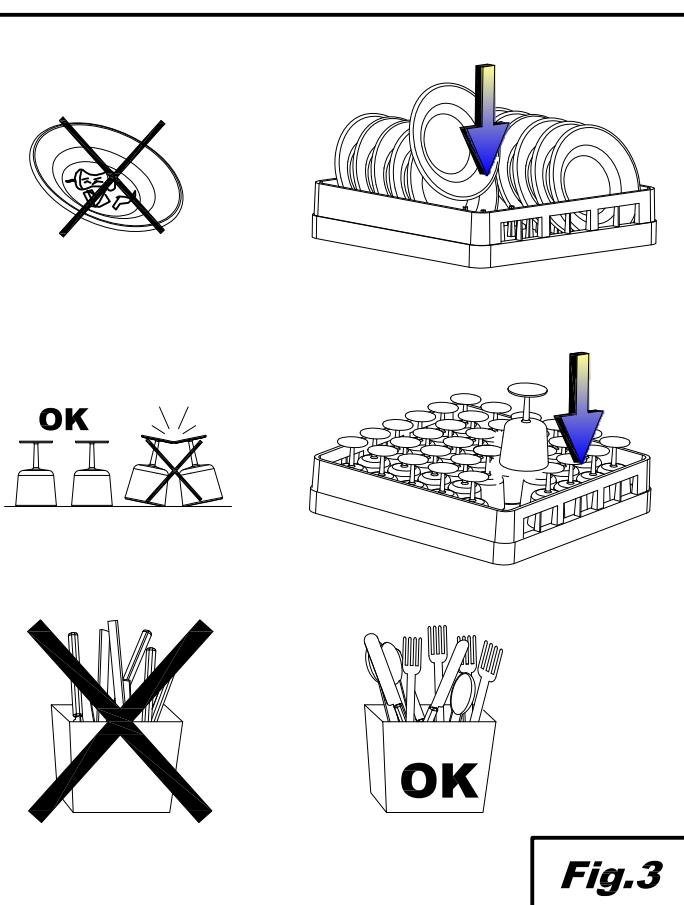
**Diamond**  
catering equipment



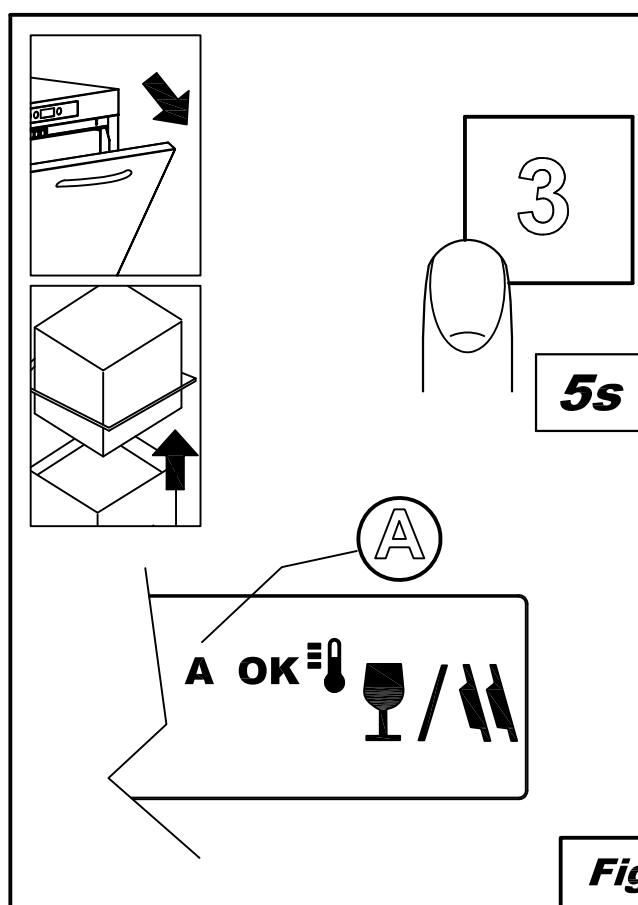
**Fig.1**



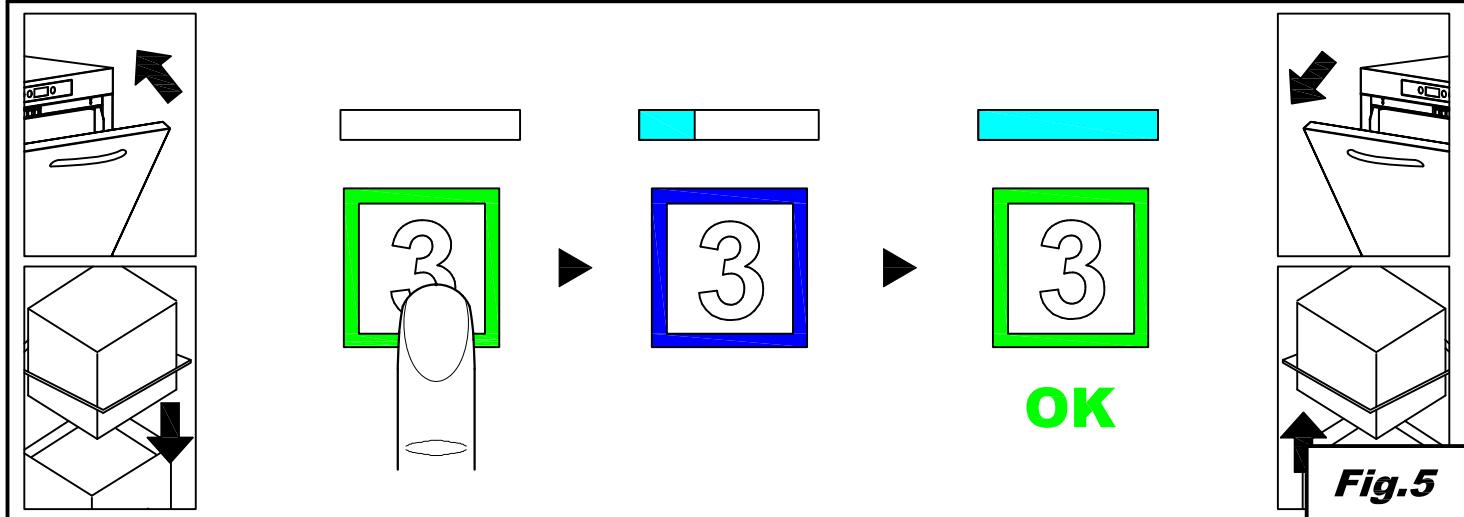
**Fig.2**



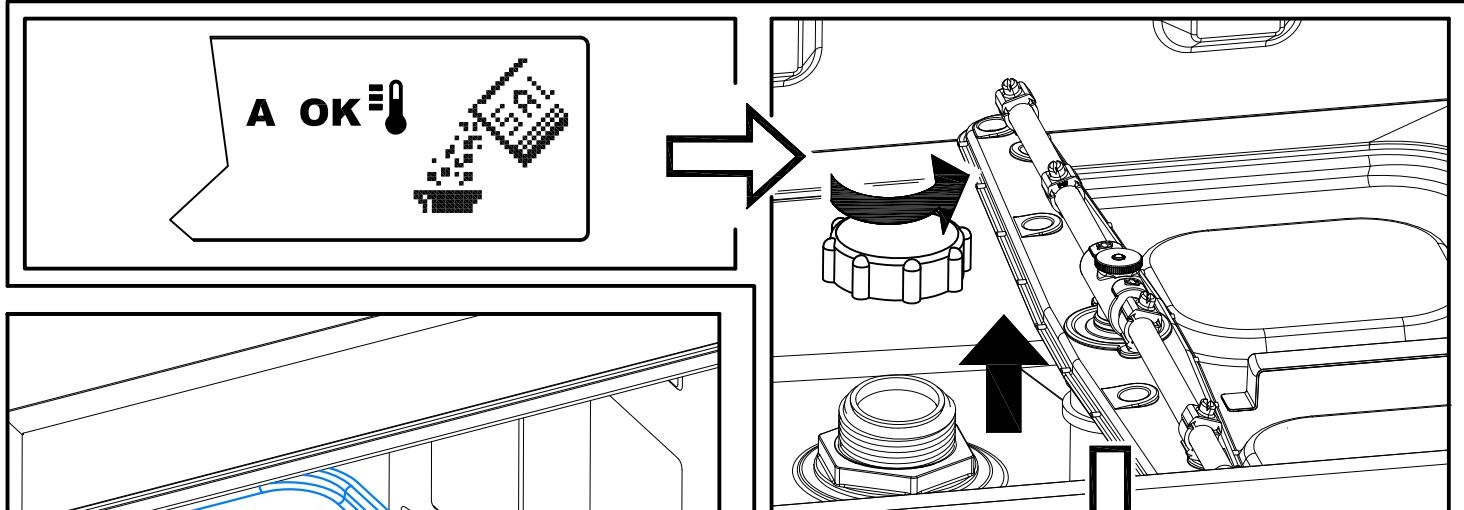
**Fig.3**



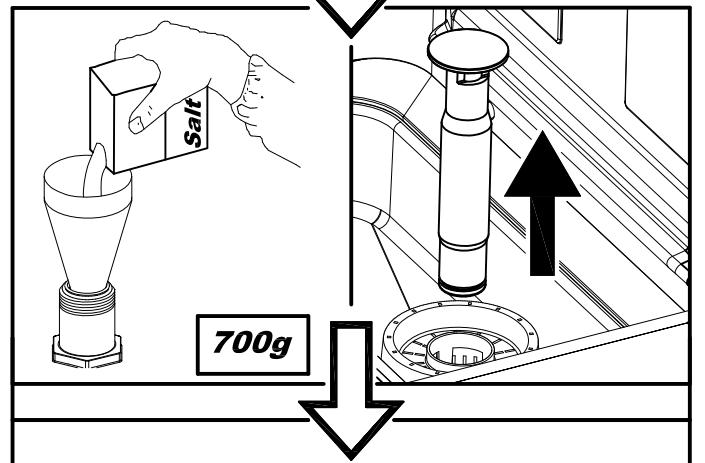
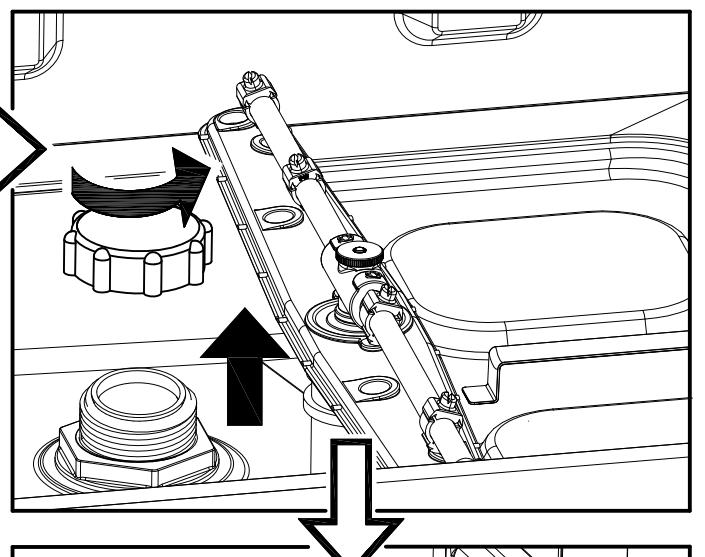
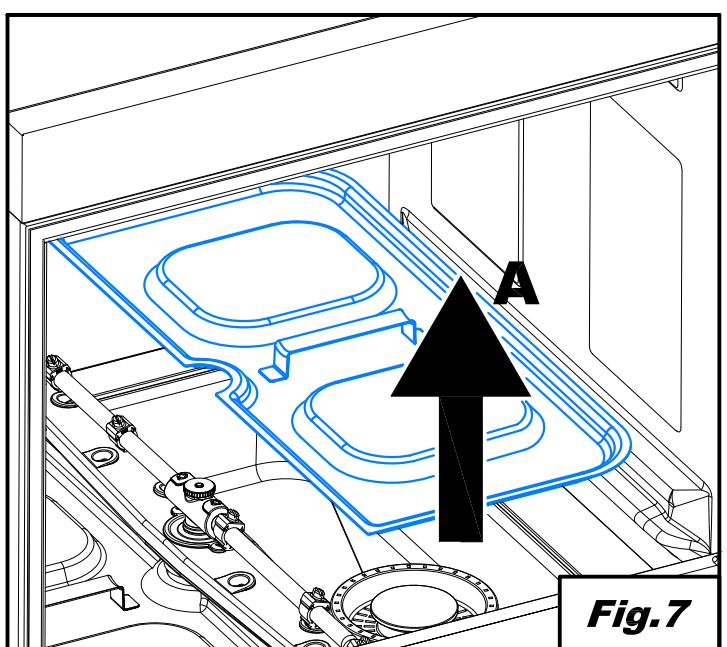
**Fig.4**



**Fig. 5**



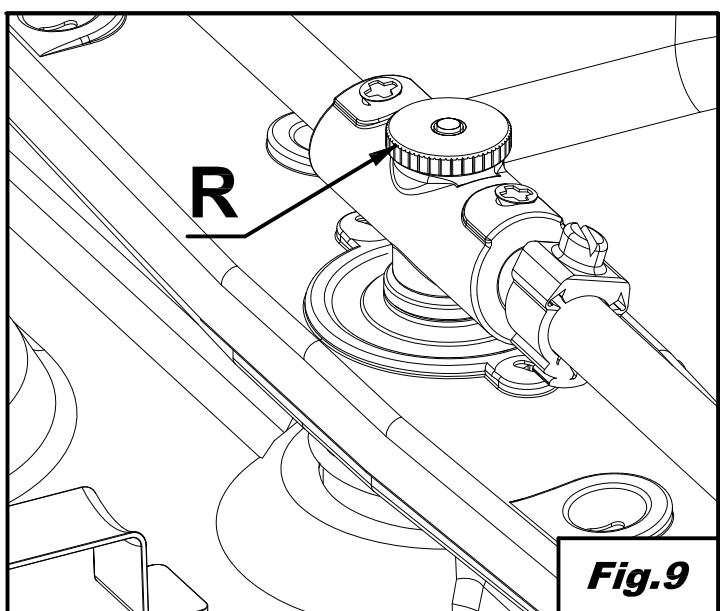
**Fig. 7**



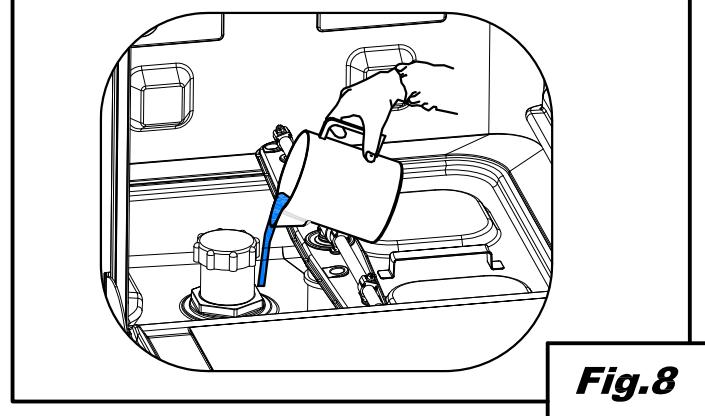
**IMPORTANT**



After salt fill, empty the machine and do a manual tank rinse.



**Fig. 9**



**Fig. 8**

# INSTRUCTION MANUAL FOR DISHWASHERS

UK

TRANSLATION FROM THE ORIGINAL INSTRUCTIONS

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*The manufacturer reserves the right to introduce changes in order to achieve the improvements it deems necessary without prior notice.*

**Chap 1 PREFACE**

**This manual contains important safety warnings relating to installation, use and maintenance.**

**Failure to observe the instructions in the enclosed documentation may compromise the safety of the appliance and immediately voids the warranty.**

**Warnings:**

Keep all documentation in the vicinity of the appliance; make it available to the technicians and operators charged with operating it and keep it in good condition in a safe place, along with extra copies for frequent reference

**The operator must read, understand and familiarise himself with the contents of this manual before working on or with the appliance.**

The appliance is intended solely for professional heavy duty dishwashing applications and must be installed, operated and serviced only by qualified persons according to the manufacturer's instructions.

**Warranty:**

The manufacturer is not liable for any damage or injury resulting from failure to observe the instructions or improper use of the machine

Failure to observe the instructions in the enclosed documentation may compromise the safety of the appliance and immediately voids the warranty

Installation and repair by unauthorised technicians and the use non-original spare parts immediately void the warranty.

**Storage:**

Transport and storage: -10°C to 55°C with peaks up to 70°C (for no longer than 24 hours)

**Chap 2 INSTALLATION**

Proper installation is essential to the good operation of the appliance. Some of the data required for installation of the appliance are given on the nameplate on its RH body panel, and a copy is included on the cover page of this manual.

**The appliance may only be installed by qualified persons authorised to do so.**



**For Australia and New Zealand this machine must be installed in accordance with AS/NZS3500.1**

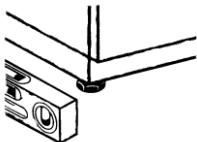
**2.1 Unpacking**

Check the condition of the packaging, and note any evident damage on the shipping bill. Remove the packaging and check that the appliance is in good condition; immediately report any damage to the reseller and the shipping agent by fax or registered letter with return receipt. If the damage is such as to compromise the safety of the appliance, do not install or operate it until it has been inspected by a qualified technician.

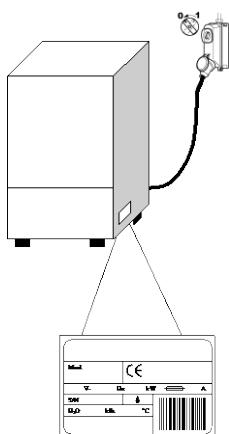


**The packaging (plastic bags, expanded polystyrene, nails, etc.) are hazardous and must not be left within the reach of children or pets.**

## 2.2 Positioning



- Check that there are no objects or materials in the installation area which may be damaged by the steam emitted by the appliance during operation, or if there are, make sure they are properly protected.
- Before positioning the appliance, set up the electrical power supply, water supply and drain connections
- The floor or build-in unit must be rated to support the weight of the appliance
- To ensure that it is stable, level the appliance with its four feet.
- The appliance is intended for fixed installation only; any other approaches must be agreed with and approved by the manufacturer.
- Remove the protective film from its body panels before operating the dishwasher.



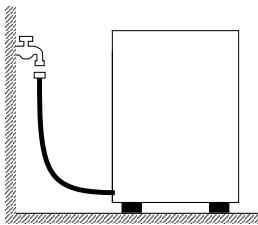
## 2.3 Electrical connection

- The power supply must be fitted with a omnipolar circuit breaker (master power switch) to break all contacts including neutral, with a contact gap of at least 3 mm and thermal cutout or fuses, which must be set or rated to the power indicated on the machine's nameplate.
- The master power switch must be fitted to the power line in the vicinity of the installation and may be connected to only one machine at a time.
- The mains voltage and frequency must match the nameplate ratings.
- The installation must include a grounding system conforming with established electrical safety legislation, to protect the operator and the appliance itself

- The power line, which must be H07RN-F unit, must not be stretched or crushed during normal operation or maintenance.
- The appliance must also be connected to an equipotential system with the screw marked with the symbol.
- The equipotential cable must have a cross section of 10 mm<sup>2</sup>.
- Respect the polarities indicated in the wiring diagram.
- For further information, refer to the wiring diagram.



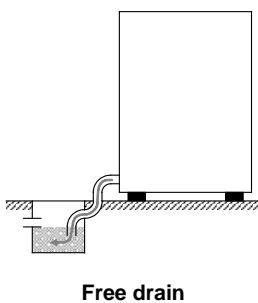
**Do not use multi-sockets, adapters, cables of an inadequate cross section or type or with extensions not conforming to established electrical installation regulations.**



## 2.4 Water circuit hookup

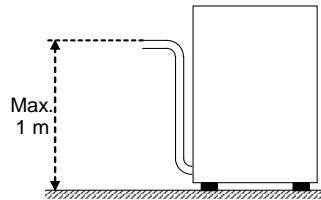
The appliance must be connected to its water supply with a flexible hose. A shut off valve (cock) must be installed between the water supply line and the appliance's solenoid valve. The cock must be close to the appliance.

- The water supply, temperature and pressure **must be compatible** with the ratings on the machine's nameplate.
- If the hardness of the water is greater than 14 F (8 dH), we recommend using an internal water softener ([available on request](#)). If the hardness of the water is greater than 35 F (19.5 dH), install an external water softener upline of the solenoid valve.
- If the water has a very high residual concentration of high conductivity minerals, we recommend installing a demineralisation system.



## 2.5 Connection to the drain line

- The drain line must consist of a free drain sump with siphon suited to the flow capacity of the drain hose supplied with the appliance. The hose must be able to reach the sump without stretching, restriction, folding, crushing, pressing or forcing in any way.
- The tub drains under gravity, so the drain sump must be lower than the machine's base.
- if the drain is not lower than the base of the appliance, you can use the version with drain pump ([available on request](#)).
- In this case, the drain connection may be no higher than 1 m.
- Always check that the drain works properly and is not blocked.
- Any other solution must be approved by the manufacturer in advance.



## 2.6 Rinse aid and detergent

- The rinse aid and detergent are dispensed by the machine's integral dispenser (depending on model).
- The dose is set by the installer in relation to the hardness of the water, and he also calibrates the dispensers themselves.
- Before calibrating them, fill the dispenser supply tubes with their respective product.
- The units are calibrated with the adjuster screws, or directly with the control panel (as applicable).
- The level of fluid in the container must be sufficient for priming; do not allow it to drain completely or top it up with corrosive or impure product.

**NEVER use CHLORINE or HYPOCHLORITE based detergents.**

We recommend installing an automatic detergent dispenser.

**Chap 3 RISKS AND IMPORTANT WARNINGS**

- This appliance is intended solely for the use for which has been designed. Any other use is improper and hazardous.
- The specialised technician responsible for installing the appliance must instruct the user on its operation and any attendant safety measures, including practical demonstrations.
- Only the manufacturer or an authorised service centre with qualified staff may work on the machine, even in case of malfunction, using only original spare parts.
- Always disconnect or isolate the machine from its power and water supplies before servicing, repairing or cleaning it.
- The machine may **NOT** be used by persons untrained in its use.
- The machine may **NOT** be left powered up when not in use.
- **NEVER** open the machine quickly if it has not completed its cycle.
- **NEVER** use the machine with its guards removed.
- **NEVER** use the machine to wash objects of any form, size or material not guaranteed to be machine-washable or not in good condition.
  - **NEVER** use the machine or any of its assemblies as steps or support for persons, property or animals.
- **NEVER** overload the open door of front-loading machines, which is rated only to support the basket loaded with dishes.
- **NEVER** place your bare hands in the wash solution.
- **NEVER** overturn the machine after it has been installed.
- If you notice any malfunction or fluid leak, immediately disconnect the power supply and shut off the water supply.
- Do not install the dishwasher in the vicinity of heat sources over 50°C.
- **NEVER** leave the dishwasher exposed to the weather (rain, direct sunlight, etc.)
- The dishwasher may not be installed outdoors without proper cover.
- Never start a wash programme without the overflow in the tub (as applicable).
- Never place magnetic objects in the vicinity of the machine.
- Do not use the top of the machine as a table or support.
- The installer is responsible for checking that the grounding system is fully operational.
- At the end of testing, the installer must issue a written declaration stating that the machine has been installed and tested in accordance with established legislation and good practice.
- **DO NOT** change the position or tamper with the elements that compose the machine, these operations could compromise its safety.
- Weighted sound pressure level LpA ≤ 70 dB(A).

**3.1 Normal operating conditions**

Ambient temperature: 40°Cmax /4°Cmin (average 30°C)

Altitude : up to 2000 metres

Relative humidity : Max 30% at 40°C / max 90% at 20°C

## Chap 4 USING THE MACHINE

## 4.1 Key and symbols

Referring to **Fig.1:**

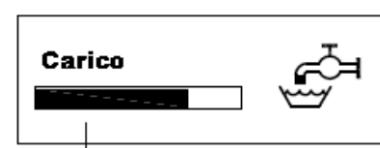
1	ON/OFF BUTTON	3	START BUTTON
2	PROGRAMME SELECTION BUTTON	4	INFORMATION DISPLAY

	Dishwasher in stand by		No detergent
	Dishwasher loading		No rinse aid
	Short wash programme		No salt
	Medium wash programme		Regeneration system on
	Long wash programme		Self-cleaning programme and drains
	Glass wash programme		Self-diagnosis on
	Intensive wash programme		Boiler rinse temperature.
	Cutlery wash programme		Washing tub temperature
	Economy wash programme		Safety system on
	Sanitising wash programme		Wash programme with total change of washing water
	Fast wash programme		Correct wash temperature If flashing: heating on

## 4.2 Switching the dishwasher on

Referring to **Fig. 2**

- Turn on the main power switch and open the external water tap.
- Check the presence of the overflow, where foreseen.
- Press **ON/OFF (1)**.
- The machine runs a drain cycle even if the tub is empty.
- The **START (3)** button flashes green.
- The machine then starts to load water, the timer bar indicates the residual loading time
- When the **START (3)** button is fixed and green, it indicates that the machine is ready for use, the **DISPLAY (4)** shows the set programme, **OK** indicates that the washing temperature is correct (**Fig. 2**).



## 4.3 Filling the rack

Referring to **Fig.3**, to ensure the correct operation of the dishwasher follow the rules described below:

- Use a suitable rack, fill without overloading and without overlapping the dishes.
- Always wipe the dishes before placing in the dishwasher; do not put dishes with dry or solid residues in the washer.
- Place the empty dishes in the rack facing downwards.
- Place plates and the like in the sloping rack, with the inner surface facing upwards.
- Place the cutlery in the cutlery basket, handle end down.
- Do not place silver and stainless steel cutlery in the same cutlery basket as this will turn the silver brown and may corrode the steel.
- Wash the dishes immediately after use, in order to prevent any residue from hardening and sticking on them.
- Use only solid, dishwasher-proof dishes.

## 4.4 Cycle selection and start-up

- Select the wash cycle suited to the dishes to be washed by pressing **SELECT PROGRAMMES (2)**.
- To start the programme just press **START (3)**: during the programme the timer bar will progressively indicate the residual time (**Fig.5**).
- When the cycle has finished the display will show **End**.
- For rapid drying, take the rack out of the machine as soon as the cycle finishes.
- To stop a wash cycle early, press **START (3)**.

**N.B. In hood versions, after the first work cycle the automatic start is automatically enabled; the subsequent cycles will be enabled automatically when the hood is closed. This operating mode is marked on the display by "A".**

## 4.5 Selecting special programmes

This dishwasher has special wash programmes.

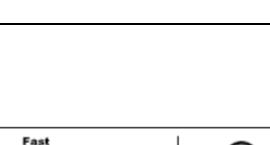
You can choose the most suitable programme and memorise it for future use.

- Using the **SELECT PROGRAMMES (2)** button, select the memorised special programme.
- With the door open, select the required programme by pressing **START (3)**.
- The chosen special programme will remain memorised and can be chosen simply by pressing **SELECT PROGRAMMES (2)**.

**Warning: the special programmes available depend on the dishwasher model.**

# INSTRUCTION MANUAL FOR DISHWASHERS

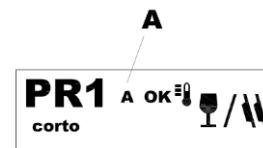
## 4.6 Description of special programmes

 <p><b>Intensive Glasses</b></p> <p>Refresh</p>	<p><b>GLASSES (PLATES) wash programme.</b></p> <p>The Glasses programme is suited for washing glasses of any shape or type. This programme washes with a low rinse temperature and requires a long drying time.</p>
 <p><b>Cutlery ACT Glasses</b></p>	<p><b>ACT wash programme.</b></p> <p>The Intensive programme is suited for washing very dirty, even encrusted dishes that have been left for some time. The programme includes 2 washes and 2 rinses.</p>
 <p><b>Green Steel</b></p> <p>ATC</p>	<p><b>STEEL wash programme.</b></p> <p>The cutlery wash programme is suited for washing forks, spoons, knives and all sorts of other cutlery. This wash programme is longer than the others.</p>
 <p><b>Sanitizer Green Cutlery</b></p>	<p><b>GREEN Wash programme.</b></p> <p>The ECO wash programme reduces energy consumption by washing at lower temperatures and with reduced water consumption than normal wash programmes, a good washing result is achieved by a prolonged mechanical washing action.</p>
 <p><b>refresh Fast Sanitizer</b></p>	<p><b>FAST wash programme.</b></p> <p>The Fast wash programme is recommended when you need good results in a short time. The programme exploits the good mechanical action and high washing temperatures.</p>
 <p><b>Glasses New Fast</b></p>	<p><b>NEW wash programme.</b></p> <p>The NEW programme is recommended when you wish to wash with a total change of water in the washing tub, so for consecutive washes of particularly greasy and dirty dishes.</p> <p>The full change of the water in the tub requires a longer wash cycle.</p>
 <p><b>Fast Sanitizer</b></p> <p>Green</p>	<p><b>SANITISER wash programme.</b></p> <p>The Sanitiser programme is recommended when the dishes to be washed also have to be sanitised.</p> <p>This programme controls the wash temperature and time calculating the constant A0. The programme ends when A0 is 30.</p> <p>The length is variable, but is generally around 20 minutes and the wash temperature reaches approximately 72 C°.</p> <p>If you need an A0 value other than 30 contact an authorised technician, who will modify the machine software for you.</p>

## 4.7 Automatic cycle start-up

This function lets you start a cycle by simply closing the door without pressing any buttons. To enable the function, proceed as follows (**Fig.4**):

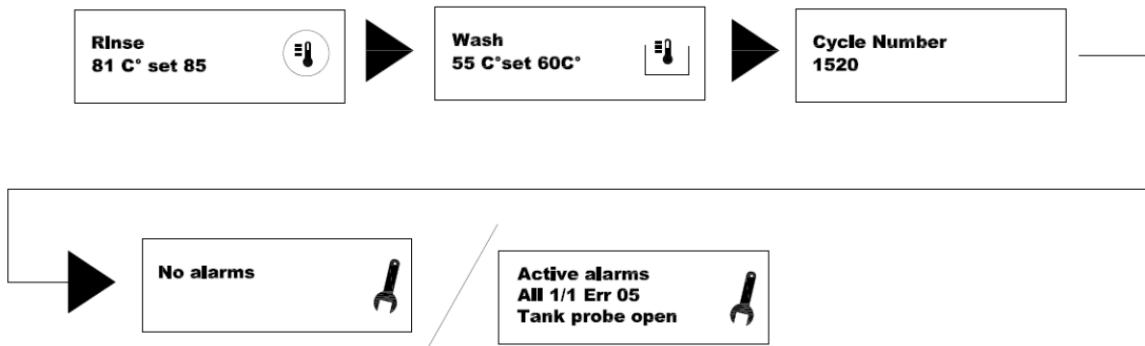
The letter "A" on the display indicates that the function is enabled.  
 If not made available by default, the function must first be enabled via the settings menu.



- To disable the function, press **START (3)** for a few seconds while the door is open. This disabling is only applied for a single wash cycle.

## 4.8 Displaying information

- If you press **SELECT PROGRAMMES (2)** for a few seconds you will access the information menu.
- Press **SELECT PROGRAMMES (2)** repeatedly to view, in sequence:  
Tub temperature, boiler temperature, total number of machine cycles, any alarms.



To exit the menu press **SELECT PROGRAMME (2)** for a few seconds.

## 4.9 Turning the dishwasher off

Press **ON/OFF (1)** on the **DISPLAY (4)** to view the dishwasher symbol in stand-by.



## 4.10 Removing the integral filter

- Move the washing and rinsing arms at right angles to the edge of the door (**Fig.7**).
- Lift each semi-filter by the relative handle.

## 4.11 Emptying the dishwasher

- With the machine on press **SELECT PROGRAMMES (2)** to select the programme **Drain**.
- Press **START (3)**, to start the drain and self-clean programme.
- Once the tub has drained, the stand by symbol will appear on the display.

## 4.12 Resin regeneration (\*optional)

In machines with an incorporated water softener the “**REGENERATION SYSTEM ON**” symbol indicates that the machine is running a resin regeneration cycle and that the current wash programme could be longer.



### N.B. Do not switch off the machine if a regeneration cycle is underway

In machines fitted with water softener, when the warning ‘**NO SALT**’ appears you should add salt to the relative container; proceed as follows:

- Remove the basket from the machine.
- Remove the integral filter (**Fig. 7**).
- Unscrew the cap on the salt container (**Fig. 8**).
- Pour approx. 700g of regeneration salt (1 or 2mm grain size kitchen salt with no additives) into the container using the funnel supplied.
- Close the container firmly.
- After a few minutes the ‘**NO SALT**’ warning will disappear.

#### **4.13 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 '**SERVICE**'. 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).

#### **4.14 End of shift**

- At the end of the day always drain the machine as described in the section Machine draining.
- Disconnect the power supply by means of the main switch and close the external water cock.
- Perform routine maintenance and clean the machine as described in the section Maintenance.
- If possible, leave the door ajar to prevent bad odours building up inside the machine.

### **Chap 5 MAINTENANCE**

#### **5.1 General rules**



**Before doing any maintenance, completely drain out all water, shut off the power supply and close the water supply cock.**

Do not use water under pressure - it can damage the electrical equipment.

Only wash the body panelling when it is cold, using only product specifically designed for steel.

If there is a risk of ice forming, drain the water from the boiler and wash pump.

#### **5.2 Cleaning**

To keep the machine in good working order, it must be maintained regularly as explained below. We recommend periodically running a sanitising treatment with suitable non-corrosive commercial products.

#### **5.3 Cleaning the filter unit**

Run this procedure at the end of the day or when you see the filters are dirty:

1. Remove and clean the baskets.
2. Empty out the tub as explained in "Machine draining".
3. Remove and carefully clean all the filters.
4. Do not use abrasive products to clean the tub.
5. Restore all removed parts when finished.

#### **5.4 Cleaning the arms**

The wash and rinse arms are easily removed in order to clean their nozzles and prevent blockage/encrustations.

Proceed as follows (**Fig.9**):

- Undo nut R and remove the arms.
- Wash all parts under a jet of running water and clean the nozzles thoroughly, using a toothpick or pointed tool if necessary.
- Clean the arm rotation pins inside the machine and the wash and rinse water drainage area.
- Restore the arms and check that they rotate freely.

## Chap 6 SELF DIAGNOSTICS

The machine is equipped with a self-diagnosis system that registers and warns of a number of malfunctions.

<b>Fault</b>		<b>Description and possible remedies</b>
	<i>Er 01</i>	<b>No rinsing.</b> The rinsing cycle was not completed correctly. Make sure that the rinsing nozzles are clean.
	<i>Er 02</i>	<b>No drainage.</b> The water was not drained or drained incorrectly. Check that the drain pipe is not bent or crushed and that the siphon and filters are not blocked. In machines fitted with an overflow pipe, remove this before starting the drainage cycle.
	<i>Er 03</i>	<b>Rinsing temperature reset fault.</b> The boiler temperature did not reset in the set time during the washing cycle. Switch the machine off and then on and run a new cycle.
SAFE	<i>Er 04</i>	<b>Water filling in tank fault.</b> Make sure the pipes are connected correctly, and that the water tap is open. Where foreseen, check the presence of the overflow. Switch the dishwasher off and then on and fill again.
	<i>Er 05</i>	<b>Tank thermometer fault. (Probe open)</b> The machine does not read the tank temperature value. Switch the dishwasher off and then on.
	<i>Er 06</i>	<b>Tank thermometer fault. (Probe short circuited)</b> The machine does not read the tank temperature value. Switch the dishwasher off and then on.
	<i>Er 07</i>	<b>Boiler thermometer fault. (Probe open)</b> The machine does not read the boiler temperature value. Switch the dishwasher off and then on.
	<i>Er 08</i>	<b>Boiler thermometer fault. (Probe short circuited)</b> The machine does not read the boiler temperature value. Switch the dishwasher off and then on.
	<i>Er 09</i>	<b>Boiler loading time out:</b> boiler not filled. Impossible to carry out rinse cycle. Check that the water tap is open. Switch the dishwasher off and then on and run a new cycle.
	<i>Er 21</i>	<b>Insufficient rinse:</b> the right amount of rinsing did not take place; make sure the rinse nozzles are clean. The error does not stop machine operation.
	<i>Er 22</i>	<b>Tank temperature reset fault:</b> The tank temperature did not reset in the set time during the washing cycle. Switch the machine off and then on and run a new cycle.
SAFE	<i>Er 5F</i>	<b>Electro-mechanical safety device:</b> the boiler or tub safety thermostats have cut in, or the tub safety pressure switch has been triggered.
SAFE	<i>Er 5L</i>	<b>Level safety switch:</b> Incorrect water level in the tank.
<b>WARNING! Switching the dishwasher off and then on again "resets" the signals, if after carrying out the instructions given the problem persists, contact an Authorised Service Centre.</b>		

## Chap 7 SETTINGS



The following settings should only be configured by a qualified technician.

The parameters listed below can be set during installation or afterwards, accessing the settings menu as follows:

- Machine in standby with door open.
- Press buttons 2 and 3 together (cycle selection and **START**) for 5 seconds and enter the key **CH 12** (buttons 2 and 3 to change the parameter, 1 to confirm).
- Then press button 1 (**ON/OFF**) repeatedly to scroll through the following headings, enabling and/or changing them using buttons 2 and 3 (the modified parameter is memorised without being confirmed). The list of parameters may vary according to the type of dishwasher.

	<b>Language</b>	Language selection
<b>b</b>	<b>Boiler Temperature</b>	Boiler temperature settings for programmes. In the versions with atmospheric boiler (rinse pump) there are different settings for each programme (b1 – b2 – b3)
<b>t</b>	<b>Tank Temperature</b>	Tub temperature regulation for programmes. Rinse pump versions have different settings for each programme (t1 – t2 – t3)
<b>EE</b>		Tank and boiler temperature display activation.
<b>EH</b>	<b>Thermo - Stop</b>	Enabling the Thermostop function, which guarantees the correct rinse temperature.
<b>ES</b>	<b>Energy Saving</b>	Enabling the Energy Saving function, which guarantees energy savings when the dishwasher is on but not in use.
<b>dn</b>	<b>Detergent Pump</b>	Manual operation of detergent doser
<b>bn</b>	<b>Rinse Aid Pump</b>	Manual operation of rinse aid doser
<b>rn</b>	<b>Manual Rinse</b>	Manual operation of the rinse pump
<b>dt</b>	<b>Dosage Detergent</b>	Detergent dosing time
<b>bl</b>	<b>Dosage Rinse Aid</b>	Rinse aid dosing time
<b>dh</b>	<b>Water Hardness</b>	Setting the supply water hardness (dishwashers with water softener): enter the values given in the table below
<b>sr</b>	<b>Set Number Service Cycles</b>	Setting and enabling the cycle counter to enable the servicing warning. You can delete the word "Service" by holding down button 3 (START) with the machine switched off and the door open.
<b>aa</b>	<b>Autostart Autoenabling</b>	Automatic enabling of automatic starting
<b>cc</b>	<b>Cycle Counter</b>	Cycle counter

Once all necessary parameters have been set, to exit and memorise any changes simply press and hold button 1 for a few seconds until the on-line dashes appear.

**7.1 Number of cycles to regenerate resins**

Set the hardness level of the water supply  $dH$  in the settings menu following the instructions given in the following table:

<i>Measured hardness</i>	<i>dH</i>
$^{\circ}fr$	$dGH$
0 ÷ 20	0 ÷ 11
21 ÷ 30	12 ÷ 16
31 ÷ 40	17 ÷ 22
41 ÷ 60	23 ÷ 33
61 ÷ 70	34 ÷ 42

**Chap 8 SCRAPPING**

Our machines do not contain materials requiring special handling.



(Applicable in the EU and countries with sorted waste disposal)

The mark applied to the product or its documentation indicates that it must not be scrapped with domestic waste when it reaches the end of its service life. To prevent damage to the environment or health risks due to improper scrapping, keep this product separate from other waste and recycle it so as to promote sustainable use of materials.

Domestic users are requested to contact their reseller or local authority for information on sorted waste disposal and recycling for this type of product.

Corporate users are requested to contact their supplier and check the terms and conditions of the purchase contract.

The product may not be scrapped together with other commercial waste.

**Chap 9 ENVIRONMENT****RESPECT FOR THE ENVIRONMENT**

Proper use of the dishwasher can improve its environmental footprint, if the following simple rules are observed:

Only wash full baskets.

Switch the dishwasher off when not using it.

Keep the machine closed when it is in standby.

Use wash programmes suited to the amount of soiling.

Supply the machine with hot water, if gas heated.

Make sure the drains flow into a suitable sewer.

Do not exceed the recommended dose of detergent.

The manufacturer reserves the right to modify the electrical, technical and aesthetic features of this appliance and replace any of its parts without notice, as he deems necessary to offer a reliable product with a long service life and advanced technology.

**UK**

## **INSTRUCTION MANUAL FOR DISHWASHERS**