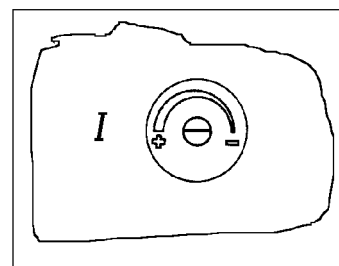
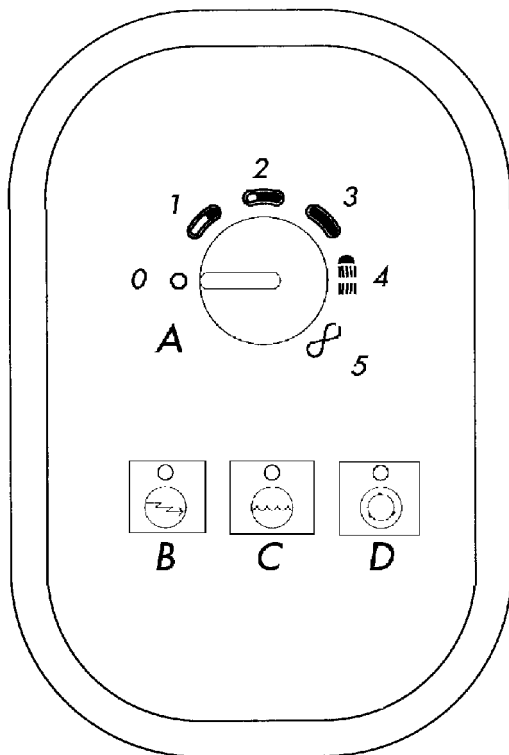
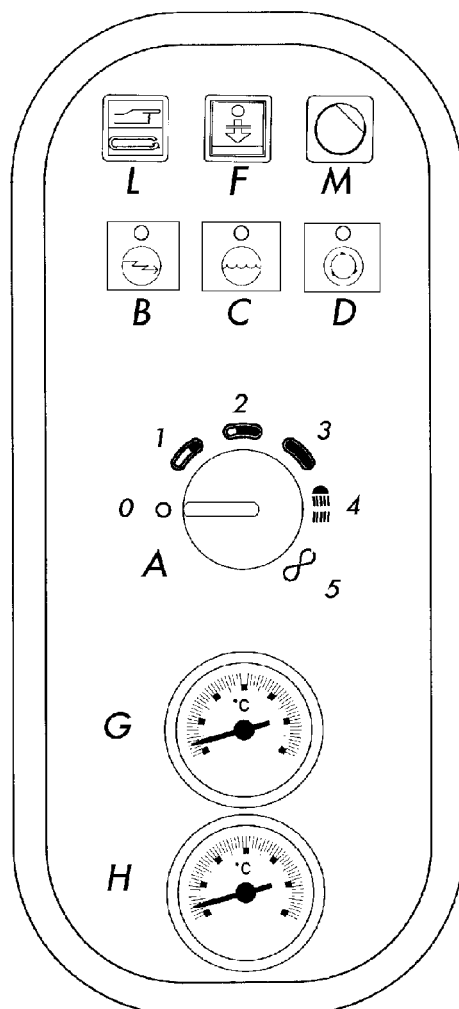
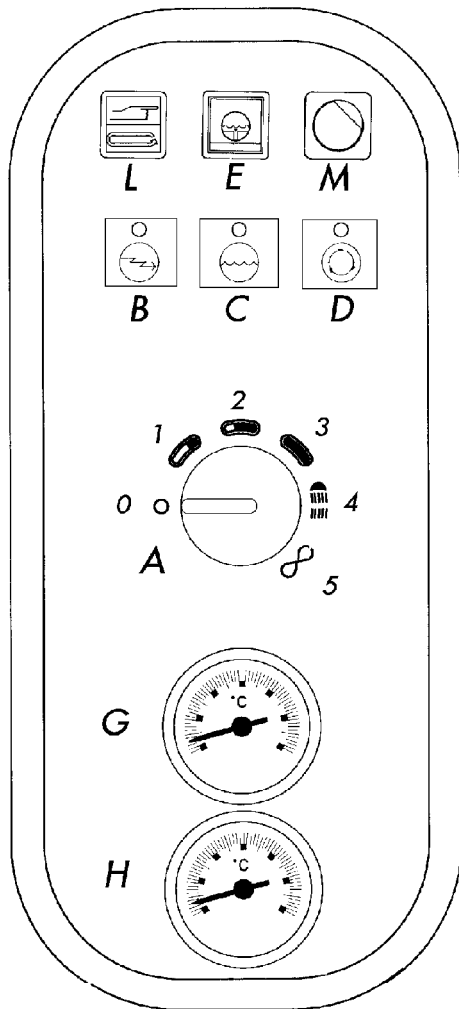


INSTRUCTION MANUAL FOR DISHWASHERS

C75 C95 C155



FOREWORD

1. Read the instructions contained in the enclosed booklet carefully, because it contains important information on installation, operation and maintenance safety. Store this booklet carefully for any further consultation by other operators.
2. Having removed the packing material, check that all the equipment is present.
If there is any doubt, do not use it and contact qualified personnel.
The packing elements (plastic bags, foam polystyrene, nails, etc.) should be kept away from children, because they are dangerous.
3. Before switching the equipment on, make sure that the model plate data conforms to that of the electrical and water distribution network.
4. Installation should be carried out by qualified personnel according to the manufacturer's instructions.
5. This equipment should be destined to the use which it has been conceived for. Any other application should be considered improper and consequently dangerous.
6. The equipment should only be used by personnel trained for its use.
7. Operators must strictly follow all hygienic requirements in the handling of clean dishware and cutlery.
8. Do not leave the machine in an environment at temperatures lower than 0°C.
9. The protection of the machine is IP X4, therefore it should not be washed with high pressure directed water jets.
10. Qualified personnel only can access the control panel, after having disconnected the machine from the primary current supply.
11. The appliance is made according to EEC 89/336 regarding radio noise suppression and electromagnetic compatibility.
12. According to EEC directive nr.23 of 19/02/1973 and the law of actuation nr.791 of 18/10/1987, our appliances are built-up according to the good technique norms in force.
13. Noise level of the machine, less than 67dB(A)

INSTRUCTIONS FOR USE

OPERATION AND USE

1) Before washing make sure that:

- the wall-mounted on/off switch is switched on;
- the water tap is open;
- water is present in the distribution network;
- the pump protection filters are installed in their respective positions;
- the overflow is inserted;
- all rotating parts are free;
- the rinse aid dispenser is full;
- make sure that dishware is in good conditions as it may cause cleaning difficulty and have bacteria.

2) Set switch "A" to position 1 to enable the automatic wash tank filling and the consequent triggering of the heating element. The lamp "B" is on.

3) As soon as visual indicator "C" is ON, pour about 45 gr. of detergent directly into the tank, paying attention to distribute it uniformly on the filters, the quantity being according to supplier's instructions. Add 15 gr. every 7 cycles to achieve a concentration of 1,5 gr./lt. In order to respect our environment, use only the correct amount of detergent.

When using chlorinated detergent, it is suggested to use an automatic dispenser; otherwise, brownish spots might appear on the surfaces due to chlorine reactions. Detergent should always be placed near the pump filter.

4) Then, introduce the glasses or the cups to wash, after having removed the solid waste and having placed them into the proper racks. The cups and the glasses should be turned upside down, while the cutlery should be put vertically into the proper container, and the same applies to dishware.

5) By means of switch "A" select the wash cycle according to conditions of the dishware:

- with glasses or cups select the **short cycle** (pos.1)
- with normally dirty dishes or cutlery select the **medium cycle** (pos.2)
- with particularly dirty dishes or deep dishes select the **long cycle** (pos.3)

A manual wash and rinse is possible by operating main switch "A" in the respective positions "5" and "4". Excessive use of the manual rinse may lead to the cooling of the water in the tank causing problems while washing and subsequently with drying. For that reason ensure that the dishwasher is attended while the manual rinse is working (we recommend max. time of 30 seconds).

6)By means of “L” selector, select the wash cycle start (except C75 models): automatic, closing the hood, or pressing the “M” button. The end of which will be indicated by switching off of the “D” lamp.

N.B.: Machine in conformity with the existing hygienic standards, guaranteeing a final rinse at 82°C. Wash cycle automatically lengthened if final rinse temperature is not reached.

7)Remove the rack and slightly incline it to permit a perfect drain; allow dishware to dry and after having washed one's hands, handle the rack in order not to touch the dishware inside then place the rack on hygienically clean shelves.

8)At the end of washing, switch "A" in position "0"; empty out the tank by taking out the overflow tube, then close the door and put the switch "A" in position "1" for a few minutes to wash the machine. Then again put the switch "A" in position "0" and wait until the tank is completely empty.

For machines with drain pump, with switch “A” in position “1” and the hood open, simply push the “E” button to drain the tank.

At this point, the filters can be taken out, in order to be washed, then replace its with the overflow in its place.

For any further information concerning equipment cleaning, read chapter "USEFUL SUGGESTIONS".

9)When the washing is finished, switch off the equipment by turning off the main supply through the general wall switch and close the water supply.

INSTRUCTIONS DURING THE WASHING

1)Do not plunge bare hands into the water containing the detergent. If this happens, wash them immediately and abundantly with fresh water.

2)When the machine is operating, do not open the door too rapidly.

3)Use only specific anti-foaming detergents.

4)Disconnect the equipment in case the machine is out of order or it does not work properly. For the repairs consult a technical assistance centre authorised by the manufacturer and ask only for an original spare parts.

5)Never modify the thermostat settings.

6)Check that lamp "C" is on.

7) Wash tank water should be changed at least twice a day or according to daily wash requirements.

8) Do not subject clean dishware to any further cleansing treatment such as brushes or drying towels.

If these instructions are not followed, the safety of the equipment can be compromised.

USEFUL SUGGESTIONS

1) MAINTENANCE

IMPORTANT: Before carrying out the cleaning and maintenance operations, disconnect the equipment from the electric supply.

Frequently check and clean the nozzles. The frequency of this operation will depend on the quantity of residues, which may result in an unsatisfactory washing result.

For the inside and outside cleaning of the machine, do not use corrosive products such as sodium hypochlorite (bleach) savelling water and hydrochloric acid, acids, steel wool or steel brushes.

The presence of calcium and magnesium salt in the water can compromise machine performance, thus ask qualified personnel to remove the deposits periodically.

In order to avoid some oxidation risks, or chemical reactions, generally the stainless steel surfaces have to be well cleaned.

2) OPTIMAL RESULTS:

A possible wash deficiency can be noticed when residue remains.

Marks can be caused by an insufficient rinse: in this case check that the rinse nozzles are clean and that there is sufficient water supply pressure.

In case of dishware residue check that:

- the washing nozzles are clean
- the water temperature is around 60°C
- there is detergent
- the pump suction filter is clean
- the racks are suitable for the dishes and cutlery that are to be washed
- the position of the cutlery and the dishes in the racks are correct

3) TEMPORARY MACHINE NON-USE

In case the machine is stopped for some weeks, it is recommended before closing it to fill the tank and run the machine with clean water, then empty it out, in order to avoid the forming of bad odour and that any residue remains in the pump.

If necessary repeat this operation until the water leaving the machine is clean.

If the machine is stopped for many weeks, it is recommended to oil the stainless steel surfaces with paraffin oil and to discharge the water from the boiler and the electric pump.

4)SANITISING THE MACHINE

Sanitising the machine at least once a week is of the utmost importance in order to guarantee hygiene even when the machine is not in use.

It is advisable to use a disinfecting product suggested by an authorised detergent dealer.

The use of this product will satisfy hygienic requirements, even during machine non use.

Before switching off the machine run the machine briefly with clean water.

5)HARD WATER CONDITIONS

If a hard water supply is present, mineral deposits will form within the machine and also on dishware.

In order to avoid the above conditions a periodic removal of these deposits is necessary.

The frequency and method of this operation upon consultation by your detergent supplier.

6)RESINS REGENERATION OF THE WATER SOFTENER (only for machines with built-in water softener)

The resins regeneration of the water softener is completely automatic. The medium frequency of this operation is about every 40 baskets (referred to an initial hardness of 24° Clark). In any case, this value can change according to the water hardness; some opaque spots on the glasses will show that it is necessary to start the regeneration. This operation has to be carried out at the end of working day and with full tank.

First of all, make sure that in the designated tank container there is some coarse salt (1 Kg. is enough for about 5 regenerations). Set the switch "A" to position "1", then push the button "E" till the button is on.

At this point the machine automatically performs all the necessary operations for about 20 minutes, during this operation the machine cannot be used.

When the lamp is off, it means that the regeneration is finished. At this point, it is recommended to switch off the machine, to empty the tank and the equipment is ready to be used.

CONTROL PANEL

- A Main switch
- 0 Machine off
- 1 Short cycle
- 2 Medium cycle
- 3 Long cycle
- 4 Continuous rinse
- 5 Continuous wash
- B Pilot lamp "MACHINE ON"
- C Pilot lamp "MACHINE READY"
- D Pilot lamp "MACHINE WORKING"
- E Drain pump push button (if required)
- F Regeneration push button (if required)
- G Tank thermometer
- H Booster thermometer
- I Regulating screw for rinse aid injector
- L Selector manual/automatic
- M Start cycle push button

INSTALLATION AND MAINTENANCE INSTRUCTIONS

The following instructions are addressed to a qualified personnel the only one authorised to carry out checks and repairs, if any.

The manufacturer declines any responsibility in the case of interventions made by a non qualified personnel or the use of spare parts other than those supplied by the Manufacture.

INSTALLATION

During installation, carry out proper machine levelling, which is a prerequisite for a correct operation thereof (max. tolerance 2°).

In order to prevent any damage caused by steam going out of the machine, make sure that the surrounding materials do not deteriorate in its presence.


After machine installation check thermostat settings, booster 85°C, tank 60°C.

1) ELECTRICAL CONNECTION

The electrical safety of this equipment is only assured if it is connected as follows.

It is necessary to connect the equipment to an effective earthing as specified by the electrical safety regulations in force. Check that this basic requirement is complied with, in case of any doubt ask for a careful check of the installation by a qualified personnel.

In the case the earthing is not efficient there will be a dispersion due to the suppresser.

The machine shall be included in a correctly dimensioned equipotential, whose effectiveness is to be very tight in accordance to the procedures set for in the applicable safety standards. The connection shall be performed through a screw marked by a plate near the rear  side of the appliance.

The manufacturer declines any responsibility for any damages caused by lack of an effective ground installation. For the electrical power supply have available a wall circuit breaker switch with multiple phase protection according the following table with contact aperture distance, equal to or not exceeding 3mm and a supply cable no less than 2.5mm².

model	Supply 380V 3N	Supply 220V/3	Supply 220V/1
C75	16A	25A	32A
C95	16A	25A	32A
C155	20A	32A	40A

For other supplies the cable cross section and the circuit breaker switch must be calculated according to voltage and length of cabling. If cabling too long adjust cable size to Amp rating; do not pull on supply cable or install it under tension. If cable needs to be replaced use type H07RN-F.

2)WATER CONNECTION

Install a 55°C water tap in a well accessible place, terminating in a 3/4" fitting, which the pipe strainer and inlet hose shall be connected to. Carefully comply with any national or regional regulations in force. The operating pressure should be neither less than 2 bars or greater than 4 bars (200/400 kPa). If water pressure is inferior then 2 bar, a pressure increase pump is necessary. If water pressure exceeds 4 bar, a pressure reducer is necessary.

In order to obtain best results, it is suggested that the water supply have a hardness not greater than 15°F.

3)WATER DRAIN

Arrange a water drain towards the floor with siphon and connect the machine with the flexible tube given with the machine, so that it leans towards the drain. Moreover, make sure that the hose does not have constrictions. Make sure that the building drain tubing withstands temperatures up to 70°C.

4)RINSE AID DOSAGE

Make sure that rinse aid suction hose is correctly installed in its proper container. The dosage is automatic with the adjusting of the screw "I", which after screwing to a full stop unscrew two turns. At this point the machine automatically takes the necessary liquid for every rinse: during the washing operations, check that the liquid of the container does not run short. For filling the dosing tube, start the machine without plugging the overflow in: at that point switch the machine on (pos.1) and off (pos.0). Repeat this operation several times at intervals of few seconds, until the rinse aid reaches the injector. Wait until the machine reaches the correct temperature (lamp "C" on). Make some empty cycles, then try to wash: if the objects washed show some drops, this means that the rinse aid is insufficient. On the contrary, the presence of marks can mean that there is too much rinse aid or the water is too hard. The regulation can change according to the kind of rinse aid.

5)DETERGENT DOSAGE (for machines with built-in detergent dispenser)

With the screw on the side of the detergent pump, close completely the product intake, then slowly open the screw until the desired intake quantity has been reached. The correct quantity is indicated by the detergent supplier. Check that the intake of the pipe during the rinse cycle is as preset. (8cm = 1g approximately). Maximum intake or delivery distance: 2 meters.

ENERGY CONSUMPTION

Model	Wash tank capacity (l)	Rinse water consumpt. (l)	Tank heater (W)	Booster heater (W)	Wash pump (W)	Total electric load (W)	Output in racks per hour with 55°C inlet water	Output in racks per hour with 12°C inlet water
C75	25	3.5	3000	6000	750	6750	48/30/20	18
C95	39	3.5	3000	6000	1100	7100	55/30/20	18
C155	39	3.5	3000	9000	1500	10500	65/42/30	18

WIRING DIAGRAM

A1	Main switch
A2	Cycle start push button
A3	Selector
B1	Pilot lamp power on
B2	Pilot lamp machine ready
B3	Pilot lamp machine working
B5	Drain pump pilot lamp
C1	Wash pump contactor
C2	Booster heater contactor
C2bis	Safety contactor of booster heater
C3	Tank heater contactor
C4	Relay
D1	Wash timer
D2	Wash timer
E1	Hot rinse solenoid valve
F1	Door switch
G1	Condenser
G2	Anti noise filter
H1	Junction
M1	Wash pump
M3	Detergent dispenser (if required)
M4	Rinse booster pump (if required)
M5	Drain pump (if required)
P1	Pressure switch
R2	Booster heater
R3	Tank heater
T2	Booster thermostat
T2bis	Booster safety thermostat
T3	Tank thermostat

The manufacturer declines any responsibility for any printing errors contained in this booklet. The manufacturer also reserves the right to make any modifications to its products that do not affect the basic characteristics thereof.

RIFERIMENTI SCHEMA ELETTRICO
HINWEIS AUF ELEKTROSCHEMA
REFERENCES AU SCHEMA ELECTRIQUE
REFER TO ELECTRICAL DRAWING
REFERENCIA ESQUEMA ELECTRICO

