CONTENTS

Foreword

The instruction manual (hereinafter Manual) provides the operator with useful information for working correctly and safely, facilitating him in using the machine (hereinafter “machine”, “dishwasher” or “equipment”).

The following must not be considered a long and exacting list of warnings, but rather a set of instructions suitable for improving machine performance in every respect and, above all, preventing injury to persons and animals and damage to property due to improper operating procedures.

All persons involved in machine transport, installation, commissioning, use and maintenance, repair and disassembly must consult and carefully read this manual before carrying out the various operations, in order to avoid wrong and improper actions that could compromise the machine's integrity or endanger people.

The manual must be available to operators and carefully kept in the place where the machine is used so that it is always at hand for consultation in case of doubts or whenever required.

If, after reading this manual, there are still doubts regarding machine use, do not hesitate to contact the Manufacturer or the authorised after-sales service centre to receive prompt and precise assistance for better operation and maximum efficiency of the machine.

During all stages of machine use, always respect the current regulations on safety, work hygiene and environmental protection. It is the user's responsibility to make sure the machine is started and operated only in optimum conditions of safety for people, animals and property.

A SAFETY INSTRUCTIONS

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Do not let children play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.

ATTENTION!

Do not wash the appliance with direct or high pressure jets of water.

ATTENTION!

If the power cable is damaged it must be replaced by the After-Sales Service or in any case by qualified personnel, in order prevent any risk.

B GENERAL INFORMATION

B1 Introduction

This section describes the symbols used (that mark and identify the type of warning), the definitions of terms used in the manual, responsibilities and copyright.

B2 Definitions

Listed below are the definitions of the main terms used in the Manual. Careful reading of the manual is recommended before use.

Operator

machine installation, adjustment, use, maintenance, cleaning, repair and transport personnel.

Manufacturer

Electrolux Professional S.p.A. or any other assistance centre authorised by Electrolux Professional S.p.A.

Operator for normal machine use

an operator who has been informed and trained regarding the tasks and hazards involved in normal machine use.

Technical assistance or specialised technician

an operator instructed/trained by the Manufacturer and who, based on his professional and specific training, experience and knowledge of the accident-prevention regulations, is able to appraise the operations to be carried out on the machine and recognise and prevent any risks. His professionalism covers the mechanical, electrotechnical and electronics fields.

Danger

source of possible injury or harm to health.

Hazardous situation

any situation where an operator is exposed to one or more hazards.

Risk

a combination of probabilities and risks of injury or harm to health in a hazardous situation.

Protection devices

safety measures consisting of the use of specific technical means (guards and safety devices) for protecting operators against risks.

Guard

an element of a machine used in a specific way to provide protection by means of a physical barrier.

Safety device

a device (other than a guard) that eliminates or reduces the risk; it can be used alone or in combination with a guard.

Customer

the person who purchased the machine and/or who manages and uses it (e.g. company, entrepreneur, firm).

Emergency stop device

a set of components intended for the emergency stop function; the device is activated with a single action and prevents or reduces damage to persons/ machines/property/animals.

Electrocution

an accidental discharge of electric current on a human body.

B3 Typographical conventions

For best use of the manual, and therefore the machine, it is advisable to know all the terms and typographical conventions used in the documentation.

The following symbols are used in the manual to indicate and identify the various types of hazards:

ATTENTION!
DANGER FOR THE HEALTH AND SAFETY OF OPERATORS.

ATTENTION!
DANGER OF ELECTROCUTION - DANGEROUS VOLTAGE.

Machine guards and protection devices marked with this symbol must only be opened by qualified personnel, after disconnecting the machine's power supply.

ATTENTION!
RISK OF DAMAGE TO THE MACHINE.

Words further explaining the type of hazard are placed next to the symbols in the text. The warnings are intended to ensure the safety of personnel and prevent damage to the machine or the product being worked.

The drawings and diagrams given in the manual are not in scale. They supplement the written information with an outline, but are not intended to be a detailed representation of the machine supplied.

The numerical values given in the machine installation diagrams refer to measurements expressed in mm (see par. G7 “Installation diagram”).

B4 Machine and Manufacturer's identification data

A reproduction of the marking or data plate on the machine is given.

2016

F.Mod.	EGWSSIC	Comm. Model	EGWSSIC
PNC	9CG 402125 00	Ser.Nr. 60210001	
EL	AC 230V 1N	50 Hz Max	3.3 kW

CE IPX4

Electrolux Professional spa - Viale Treviso, 15 - 33170 Pordenone (Italy)

Figure 1 Reproduction of the marking/data plate on the machine.

The data plate gives the product identification and technical data; listed below is the meaning of the various information given on it.

F.Mod ..... factory description of product
Comm. Model..... commercial description
PNC..... production number code
Ser. Nr. ..... serial number
AC 230V 1N ..... power supply voltage
50 Hz..... power supply frequency
Max 3.3 kW ..... max. power input
2016 ..... year of construction
CE ..... CE marking
IPX4 ..... protection rating
Electrolux Professional S.p.A. - Viale Treviso, 15 -33170 Pordenone (Italy) ..... Manufacturer

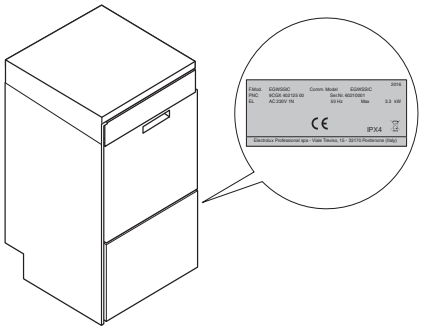


Figure 2 Position of marking

ATTENTION!

Do not remove, tamper with or make the machine marking illegible.

ATTENTION!

Refer to the data given on the machine marking for relations with the Manufacturer (e.g. when ordering spare parts, etc.).

B5 Equipment identification

B5.1 How to identify the technical data

To identify the technical data (Figure 3), read the factory description of the product (F. Mod.) on the data plate, identify the main machine data and consult Table 2 “Main technical characteristics, performance and consumption”.

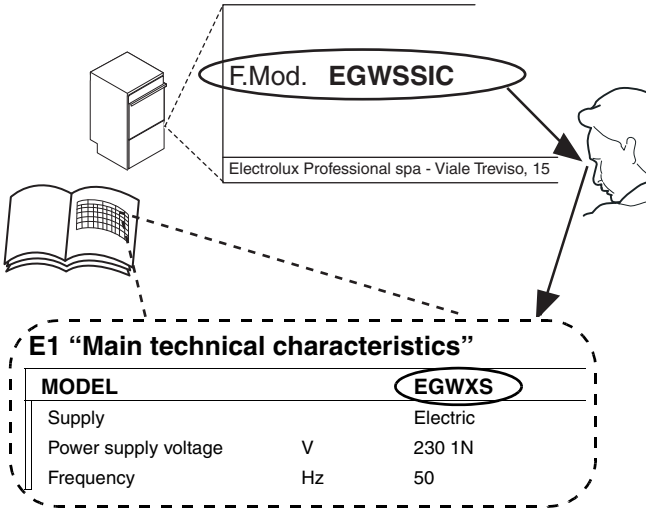


Figure 3 Technical data identification

B5.2 How to interpret the factory description

The factory description on the data plate has the following meaning (some examples are given below):

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
E	**GW**	**S**	**S**	**I**	**C**	**W**	**P**	**B**
Z	**GW**	**S**	**S**	**I**	**C**	**W**		
N	**GW**	**S**	**I**	**C**	**W**	**P**	**U**	
X	**GW**	**S**	**I**	**C**	**W**	**P**		

Descrizione variabili	
(1) Brand	Z = Zanussi, E = Electrolux, N = To Brand, X = KxT.
(2) Machine type	GW = Glass washer
(3).. (9)	S = standard version, SS = short version, I = insulation, DI = double imsulation, C = cold rinse, W = water softner, P = drain pump, D = detergent pump, G = drain pump + detergent pump, U = UK plug, 6 = 60Hz, B = booster pump, MS = multi rack support, 3 = 400V 3N ~.

B6 Copyright

This manual is intended for consultation exclusively by the operator and can be given to third parties only with the written permission of Electrolux Professional S.p.A.

B7 Liability

The Manufacturer declines any liability for damage and malfunctioning caused by:

- non-compliance with the “Definitions” instructions contained in this manual;
- repairs not carried out in a workmanlike fashion, and replacements using spare parts different from those specified in the spare parts catalogue (the fitting and use of non-original spare parts and accessories can negatively affect machine operation);
- operations by non-specialised technicians;
- unauthorised modifications or operations;
- inadequate maintenance;
- improper machine use;
- unforeseeable extraordinary events;
- use of the machine by uninformed and untrained personnel;
- non-application of the current provisions in the country of use, concerning safety, hygiene and health in the workplace.

The Manufacturer declines any liability for damage caused by arbitrary modifications and conversions carried out by the user or the Customer.

The employer or workplace manager is responsible for identifying and choosing adequate and suitable personal protection equipment to be worn by operators, in compliance with current regulations in the country of use.

Electrolux Professional S.p.A. declines any liability for any inaccuracies contained in the manual, if due to printing or translation errors.

Any supplements to the instruction manual the Customer receives from the Manufacturer must be kept together with the manual, of which they will form an integral part.

B8 Personal Protection Equipment

Given below is a summary table of the Personal Protection Equipment (PPE) to be used during the various phases of the machine's service life.

Phase	Protection garments	Safety footwear	Gloves	Glasses	Protective headgear or helmet
Transport	—	●	○	—	○
Handling	●	●	○	—	—
Unpacking	○	●	○	—	—
Installation	○	●	○	—	—
Normal use	●	●	● (1)	○	—
Adjustments	○	●	—	—	—
Routine cleaning	○	●	● (1)	○	—
Extraordinary cleaning	○	●	● (1)	○	—
Maintenance	○	●	○	—	—
Dismantling	○	●	○	—	—
Scrapping	○	●	○	—	—

Legend:

●	PPE REQUIRED
○	PPE AVAILABLE OR TO BE USED IF NECESSARY
—	PPE NOT REQUIRED

(1) Use heat resistant gloves suitable for contact with water and the substances used (see the safety data sheet of the substances used to check other possible PPE).

Failure to use the personal protection equipment by operators, specialised technicians or users can involve exposure to chemical risk and possible damage to health.

B9 Keeping the manual

The manual must be kept intact for the entire life of the machine, until scrapping of the machine. The manual must stay with the machine in case of transfer, sale, hire, granting of use or leasing.

B10 Users of the manual

This manual is intended for:

- the carrier and handling personnel;
- installation and commissioning personnel;
- the employer of machine users and the workplace manager;
- operators for normal machine use;
- specialised technicians - technical assistance (see wiring diagram and service manual).

C GENERAL SAFETY RULES

C1 Introduction

The machines are provided with electric and/or mechanical safety devices for protecting workers and the machine itself. Therefore the user must not remove or tamper with such devices.

The Manufacturer declines any liability for damage due to tampering or their non-use.

C1.1 Protection devices installed on the machine

C1.1.1 Guards

The guards on the machine are:

- fixed guards (e.g. casings, covers, side panels, etc.), fixed to the machine and/or frame with screws or quick-release connectors that can only be removed or opened with tools;
- interlocked movable guards (front panels) for accessing inside the machine;
- machine electrical equipment access doors, made from hinged panels openable with tools. The door must not be opened when moving the machine, if inside the door there is equipment which is dangerous when under tension or pressure.

ATTENTION!

Several illustrations in the manual show the machine, or parts of it, without guards or with guards removed. This is purely for explanatory purposes. Do not use the machine without the guards or with the protection devices deactivated.

C1.2 Safety signs to be placed on the machine or near the work area

		MEANING
PROHIBITION		**Do not oil, lubricate, repair and adjust moving parts.**
		**Do not remove the safety devices.**
		**Do not use water to extinguish fires (placed on electrical parts).**
DANGER		**DANGER OF CRUSHING HANDS**
		**DANGER OF BURNS**
		**DANGER OF ELECTROCUTION (placed on electrical parts with indication of voltage).**

ATTENTION!

Do not remove, tamper with or make the labels on the machine illegible.

C2 Decommissioning

When the machine is no longer to be used, make it unusable, removing the wiring from the power supply and the water connections.

C3 Instructions regarding use and maintenance

Risks mainly of a mechanical, thermal and electrical nature exist in the machine.

Where possible the risks have been neutralised:

- directly, by means of adequate design solutions,
- indirectly by using guards, protection and safety devices.

Any anomalous situations are signalled on the control panel display.

During maintenance several risks remain, as these could not be eliminated, and must be neutralised by adopting specific measures and precautions.

Do not carry out any checking, cleaning, repair or maintenance operations on moving parts.

Workers must be informed of this prohibition by means of clearly visible signs.

To guarantee machine efficiency and correct operation, periodical maintenance must be carried out according to the instructions given in this manual. In particular, make sure to periodically check correct operation of all the safety devices and the insulation of electrical cables, which must be replaced if damaged.

ATTENTION!

Machine maintenance operations must only be carried out by specialised Technicians provided with all the appropriate personal protection equipment (safety shoes, gloves, glasses, overalls, etc.), tools, utensils and ancillary means.

ATTENTION!

Never operate the machine, removing, modifying or tampering with the guards or protection and safety devices.

ATTENTION!

Before carrying out any operation on the machine, always consult the manual, which gives the correct procedures and contains important information on safety.

C4 Foreseeable improper use

Improper use is any use different from that specified in this manual. During machine operation, other types of work or activities considered improper and that in general can involve risks for the safety of operators and damage to the system are not allowed.

Foreseeable improper use includes:

- failure to disconnect the power supply (with main switch in off position “O”) before carrying out adjustment, cleaning, resetting and maintenance operations;
- failure to disconnect the power supply (with main switch in off position “O”) at the end of the day;
- lack of machine maintenance, cleaning and periodical checks;
- structural changes or modifications to the operating logic;
- tampering with the guards or safety devices;
- failure to use personal protection equipment by operators, specialized technicians and maintenance personnel;
- failure to use suitable accessories (e.g. the use of equipment, ladders unsuitable for carrying out maintenance to equipment inside the machine);
- keeping combustible or flammable materials, or in any case materials not compatible with or pertinent to the work, near the machine;
- incorrect machine installation (see section E “Installation and assembly”);
- placing in the machine any objects or things not compatible with washing or that can obstruct/damage the machine or persons or pollute the environment;
- non-compliance with the requirements for correct machine use;
- other actions that give rise to risks not eliminable by the Manufacturer.

ATTENTION!

The previously described actions are prohibited!

C5 Residual risks

The machine has several risks that were not completely eliminated from a design standpoint or with the installation of adequate protection devices.

Nevertheless, through this manual the Manufacturer has taken steps to inform operators of such risks, carefully indicating the personal protection equipment to be used by them.

Sufficient spaces are provided for during the machine installation stages in order to limit these risks.

To preserve these conditions, corridors and areas around the machine must always be:

- kept free of obstacles (e.g. ladders, tools, containers, boxes, etc.);
- clean and dry;
- well lit.

For the Customer's complete information, the residual risks remaining on the machine are given below: such actions are deemed improper and therefore strictly forbidden.

APPLICATION PHASE: I=Installation, U=Normal use, M=Maintenance, P=Cleaning.

RESIDUAL RISK	DESCRIPTION OF HAZARDOUS SITUATION
Slipping or falling [U - M]	The operator can slip due to water or dirt on the floor.
Burns [U - M - P]	The operator deliberately or unintentionally touches some parts inside the machine or dishes at the outfeed without using gloves or without allowing them to cool.
Electrocution [M]	Contact with live parts during maintenance operations carried out with the electrical panel powered. The operator intervenes (with a power tool or without disconnecting the power to the machine) lying down on the wet floor.
Falling from above [I - U - M]	The operator intervenes on the machine using unsuitable systems to access the upper part (e.g. rung ladders, or climbs on it).
Tipping of loads [I - M]	During maintenance on the machine, or moving its packing, using unsuitable accessories or lifting systems or with load unbalanced.
Chemical [I - U - M - P]	Contact with chemical substances (e.g. detergent, rinse aid, scale remover, etc.) without taking adequate safety precautions. Therefore always refer to the safety data sheets and labels on the products used.
Crushing or shearing [I - U - M]	Possible risk of injury to upper limbs during the hood closing operation.

Table 1 Residual risks

D GENERAL DESCRIPTION OF MACHINE

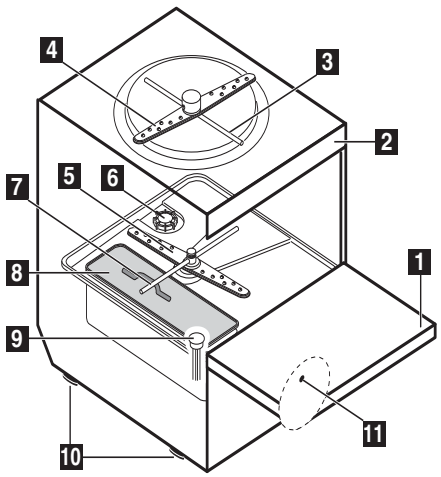
D1 General description

The dishwasher is suitable for washing glasses, cups, cutlery.

Under no circumstances it can be used for other applications or ways not provided for in this manual.

This equipment has been created in order to ensure a better work environment and cost efficiency.

These dishwashers are used in restaurants, cafeterias, cooking centers and large institutions. The special dish racks, that can be equipped with various inserts, offer practical and easy use for obtaining excellent washing results. The electronic system enables complete supervision of the washing process. The control panel also has a display that shows the operating parameters and signals any faults.



1. Door
2. Control panel
3. Upper rinse arm
4. Upper washer arm
5. Lower washer arm
6. Salt container cap
7. Lower rinse arm
8. Tank filter
9. Overflow
10. Adjustable feet
11. Screw for adjusting rinse aid quantity

E TECHNICAL DATA

E1 Main technical characteristics

MODEL		EGWSSIC - ZWGSSIC	EGWSIC... - ZGWSIC... - NGWSIC... - XGWSIC	EGWSICWG...U NGWSIC.....U	EGWS...3	EGWSICGMS - ZGWSICGMS - EGWSICGBMS
Power supply voltage:	V	220-240V 1N	220-240V 1N	220-240V 1N	400V 3N	220-240V 1N
Frequency	Hz	50	50 [60(5)]	50	50	50
Max. power input	kW	3.3	3.3	2.3	4.8	3.3
Booster heating element power	kW	3.0	3.0	2.0	4.5	3.0
Tank heating element power	kW	0.8	0.8	0.8	0.8	0.8
Supply water pressure	kPa [bar]	180-300 [1.8 - 3]	180-300 [1.8 - 3]	180-300 [1.8 - 3]	180-300 [1.8 - 3]	180-300 [1.8 - 3]
Supply water temperature	°C [°F]	10-55 [50-122]	10-55 [50-122]	10-65 [50-145]	10-55 [50-122]	10-65 [50-145]
Supply water hardness	°f/°d/°e	14/8/10 max	14/8/10 max	14/8/10 max	14/8/10 max	
Rinse cycle water consumption (hot-[cold])	l	2.3-[1.8]	2.3-[1.8]	2.3-[1.8]	2.3-[1.8]	2.3-[1.8]
Booster capacity	l	5	5	5	5	
Tank capacity	l	6	6	6	6	
Duration of standard cycles(1)	sec.	120-300-120(2)	120-300-120(2)	120-300-120(2)	120-300-120(2)	60-120-66(2)
Noise level Leq(3)	dB (A)	LpA:69dB - KpA:1.5dB	LpA:69dB - KpA:1.5dB LpA:59.6dB - KpA:1.5dB(4)	LpA:69dB - KpA:1.5dB	LpA:69dB - KpA:1.5dB	LpA:69dB - KpA:1.5dB
Protection rating		IPX4	IPX4	IPX4	IPX4	IPX4
Net weight: - short version - standard version	kg	 34 37	 34 37	 34 37	 34 37	 34 37
Power cable type		H07RN-F - Schuko	H07RN-F - Schuko	H07RN-F - UK plug	H07RN-F - no plug	H07RN-F - no plug

(1) = with water supply temperature at 55°C [131°F] - 65°C [149°F].
(2) = Included cold rinse.
(3) = The noise emission values have been obtained according to EN ISO 11204.
(4) = On selected models.
(5) = 60Hz only for the models EGWSICWPB6 - EGWSICWP6

Table 2 Main technical characteristics, performance and consumption

E2 Power supply characteristics

The AC power supply to the machine must meet the following conditions:

- max. voltage variation ± 10%
- max. frequency variation ± 1% continuous ± 2% for a short period.

Harmonic distorsion, unbalanced three-phase supply voltage, voltage pulses, interruption, dips and the other electric characteristics must respect the provisions of par. 4.3.2 of Standard EN 60204-1 (IEC 60204-1)..

ATTENTION!

The machine's power supply must be protected against overcurrents (short circuits and overloads) by fuses or suitable thermal magnetic circuit breakers. A suitable high-sensitivity manual-reset differential omnipolar thermal-magnetic switch with contact gap enabling complete disconnection in category III overvoltage conditions and complying with the current regulations, must be installed between the power cable and the electric line.

ATTENTION!

For protection against indirect contacts (depending on the type of supply foreseen and the connection of the masses to the equipotential protection circuit) refer to par. 6.3.3 of EN 60204-1 (IEC 60204-1) with the use of protection devices that ensure automatic disconnection of the power supply in the event of an insulation fault in TN or TT systems, or, for IT systems, the use of isolation controllers or differential current protection devices to start automatic disconnection of the power supply (except when a safety device is provided to disconnect the power in case of a first fault to earth, an isolation controller must be provided to indicate the occurrence of a first fault by a live part to the masses or to earth. This device must activate an audible and/or visual signal which must continue for the duration of the fault).

For example, in a TT system it is necessary to install a differential circuit breaker upstream of the supply with intervention current coordinated (e.g. 30 mA) with the earthing system of the building where the machine is to be installed.

ATTENTION!

The Customer is requested to follow these instructions, otherwise the Manufacturer does not guarantee the machine for continuous operation and/or against faults.

F TRANSPORT, HANDLING AND STORAGE

F1 Introduction

Transport (i.e. transfer of the machine from one place to another) and handling (i.e. transfer inside workplaces) must occur with the use of special and adequate means.

The machine must only be transported, handled and stored by qualified personnel, who must:

- have specific technical training and experience;
- have knowledge of the safety regulations and applicable laws in the relevant sector;
- have knowledge of the general safety rules;
- be able to recognise and avoid any possible hazard.

F1.1 Transport: Instructions for the carrier

ATTENTION!

Do not stand under suspended loads during loading/unloading operations. Unauthorised personnel must not enter the work area.

ATTENTION!

The machine's weight alone is not sufficient to keep it steady.

The transported load can shift:

- **when braking;**
- **when accelerating;**
- **in corners;**
- **on rough roads.**

F2 Handling

Arrange a suitable area with flat floor for machine unloading and storage operations.

F2.1 Procedures for handling operations

For correct and safe lifting operations:

- use the type of equipment most suitable for characteristics and capacity (e.g. electric pallet truck or lift truck);
- cover sharp edges;
- check the forks and lifting procedures according to the instructions given on the packing.

Before lifting:

- send all operators to a safe position and prevent persons from entering the handling area;
- make sure the load is stable;
- make sure no material can fall during lifting, and manoeuvre vertically in order to avoid impacts;
- handle the machine, keeping it at minimum height from the ground.

ATTENTION!

For machine lifting and anchoring, do not use movable or weak parts such as: casings, electrical raceways, pneumatic parts, etc.

F2.2 Shifting

The operator must:

- have a general view of the path to be followed;
- stop the manoeuvre in case of hazardous situations.

F2.3 Placing the load

Before placing the load, make sure the way is free and that the floor is flat and can take the load.

F3 Storage

The machine and/or its parts must be stored and protected against damp, in a non-aggressive place free of vibrations and with ambient temperature between -10°C / 14°F and 50°C / 122°F.

The place where the machine is stored must have a flat support surface in order to avoid any twisting of the machine or damage to the support feet.

ATTENTION!

Machine positioning, installation and disassembly must be carried out by a specialised technician.

ATTENTION!

Do not make modifications to the parts supplied with the machine. Any missing or faulty parts must be replaced with original parts.

G INSTALLATION AND ASSEMBLY

ATTENTION!

Machine installation operations must only be carried out by specialised Technicians provided with all the appropriate personal protection equipment (safety shoes, gloves, glasses, overalls, etc.), tools, utensils and ancillary means.

G1 Customer responsibilities

The tasks and works required of the Customer are:

- Install a disconnecting switch of capacity not less than that given in the technical data table, a 30 mA differential switch and an over-current protection device (manual reset thermal magnetic or fuse) ahead of the equipment. The device used must be lockable in the open position in case of maintenance.
- Install an adequate electrical power supply ahead of the machine, according to the equipment's technical specifications (Table 2);
- Carry out the equipotential connection of the workplace electrical system to the metal structure of the machine by means of a copper cable of adequate section (see position “Q” in par. G7 “Installation diagram”);
- Make the ducting for the electrical connection between the workplace electric panel and the equipment;
- Make the water supply and drain connections and other connections as indicated in Table 2 and par. Figure 4 “Unpacking”.

G2 Characteristics of the place of installation

The machine is designed for installation in professional and not domestic-type kitchens. Water collection traps/ metal grates must be arranged in the floor at the machine discharges (see par. G7 “Installation diagram”), possibly replaceable with a single water trap sized for a flow rate of at least 3 l/s.

G3 Positioning

The machine must be taken to the place of installation and the packing base removed only when being installed.

Arranging the machine:

- Wear protective gloves and unpack the machine (Figure 4).

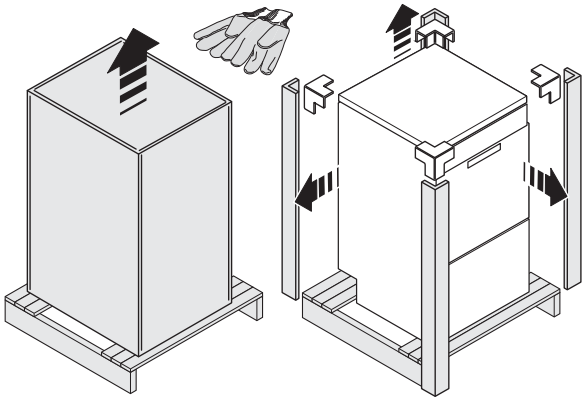


Figure 4 Unpacking

- Lift the equipment with a lift truck, remove the base and position it the place of use (Figure 5).

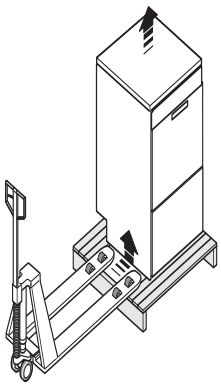


Figure 5 Machine positioning

- Carefully remove the protective film from the outer panels without tearing it, to avoid leaving traces of glue (Figure 6).

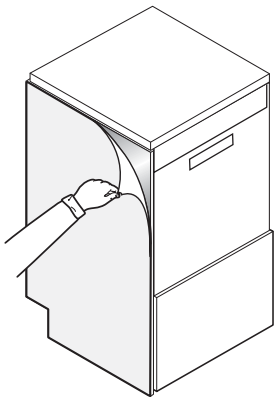


Figure 6 Removing the film

- Adjust the equipment by turning the special adjustable feet and making sure it is perfectly level, both lengthwise and crosswise (Figure 7).

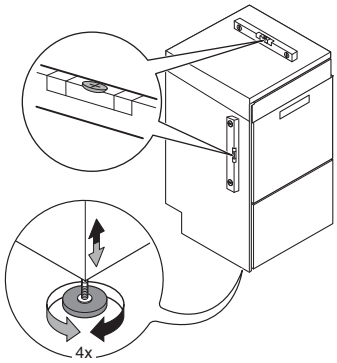


Figure 7 Feet adjustment

G4 Disposal of packaging

All the packing materials are environmentally friendly. They can be safely kept, recycled or burned in an appropriate waste incineration plant. Recyclable plastic components are marked as follows:

PE	**polyethylene:**	**outer wrapping, instruction booklet bag.**
PP	**polypropylene:**	**roof packing panels, straps.**
PS	**polystyrene foam:**	**corner protection.**

Parts in wood and cardboard can be disposed of, respecting the current regulations in the country where the machine is used.

G5 Plumbing connections

ATTENTION

Machines marked Watermark must be installed in conformity with AS/NZS 3500.1, and the non-return device supplied with the machine must also be installed (B - Figure 8). The drain must comply with 3500.2.

The machine water filling and drain pipes must be installed according to the plumbing circuit and installation diagrams given below.

- Connect the equipment water pipe “WI” (see par. G7 “Installation diagram”) to the water supply, interposing a tap, the filter (if provided) and a pressure gauge (Figure 8).

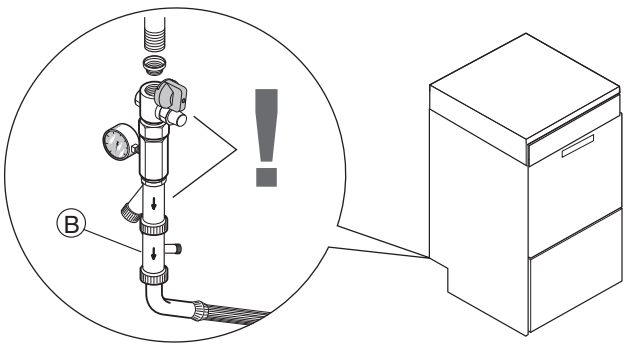


Figure 8 Supply pipe connection

ATTENTION

If the equipment is replaced, always use the new inlet hose provided. Be sure that the non-return valve “B” and the filter supplied are fitted correctly as shown in Figure 8.

- Make sure the **dynamic pressure** of the water supply, measured upstream of the equipment, is **between 180 and 300 kPa** (the tests must be carried out while the dishwasher is filling water in the tank and/or booster). On units that are not provided with, an electric pump, available as an accessory, should be fitted into the hydraulic circuit in case the pressure rating is below than required.
- **If the pressure is higher, install a suitable pressure reducer ahead of the machine.**

- For model with gravity discharge:

connect the discharge pipe “D” (Figure 9) to the drain pipe, interposing a trap, or place the pipe over a waste obtained in the floor.

- For model with drain pump:

place the discharge pipe “D” (Figure 9) at a height of between 750 mm and 1000 mm measured from the support surface.

Subsequently check that approx. 3 litres of water come out of the discharge pipe during the rinse phase.

ATTENTION!

Always use a new set of joints if you remove and reinstall the water inlet pipe to the appliance.

G6 Electrical connections

ATTENTION!

Work on the electrical systems must only be carried out by a qualified electrician.

- Connection to the power supply must be carried out in compliance with the regulations and provisions in force in the country of use.
- Make sure the system power supply is arranged and able to take the actual current load and that it is executed in a workmanlike manner according to the regulations in force in the country of use.
- The plug must be accessible after positioning the appliance in the place of installation.
  Make sure the plug is not crushed by the appliance; in fact, a damaged power cable can overheat and catch fire or cause a short circuit.
- Make sure the machine power supply voltage specified on the rating plate (Table 2) matches the mains voltage.
- Make sure that the socket has an efficient earth contact.
- Connect the mains plug to the mains socket only at the end of the installation.
- Always use a correctly installed shockproof socket.
- Do not use multi-plug adapters and extension cables.

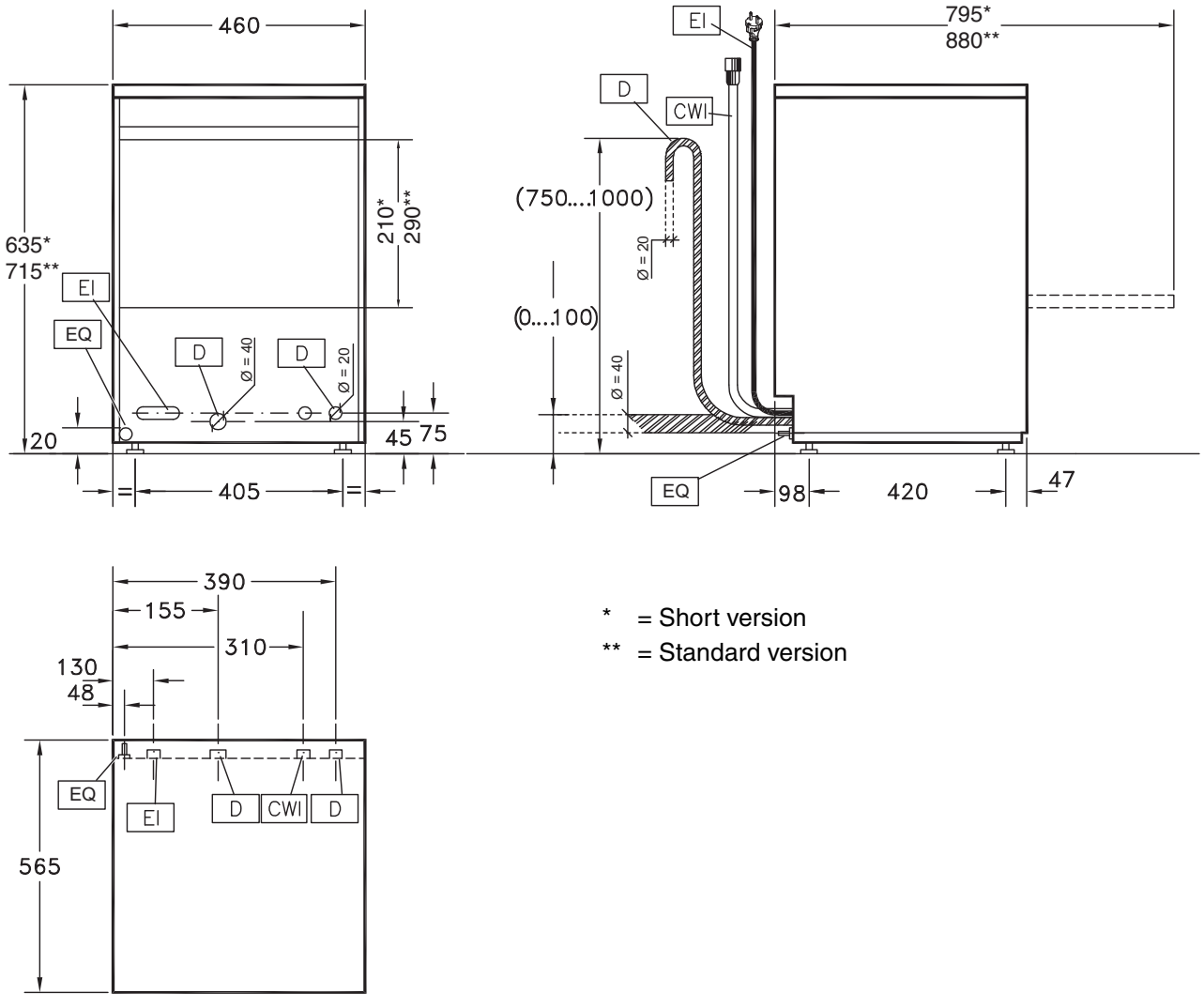
- Do not pull the mains cable to disconnect the appliance. Always pull the mains plug.
- Do not touch the mains cable or the mains plug with wet hands.
- The equipment must also be included in an equipotential system, whose connection is made by means of screw “EQ” (see par. G7 “Installation diagram”) indicated by the symbol “ ⏚ ”. The equipotential wire must have a section of at least 10 mm^2.
- Only for UK and Ireland: the appliance has a 13 A mains plug. If it is necessary to change the fuse in the mains plug, use a 13 A ASTA (BS 1362) fuse.

G6.1 Safety devices

- An automatic-reset overload protector incorporated in the electric pump windings cuts off the power to the pump in case of faulty operation.
- An overflow pipe connected to the discharge ensures a constant water level in the tank.
- A device prevents the booster water from returning back into the system in the event of a water supply system fault.
- For the model with drain pump an additional water level device is enable only when the main device does not working.

G7 Installation diagram

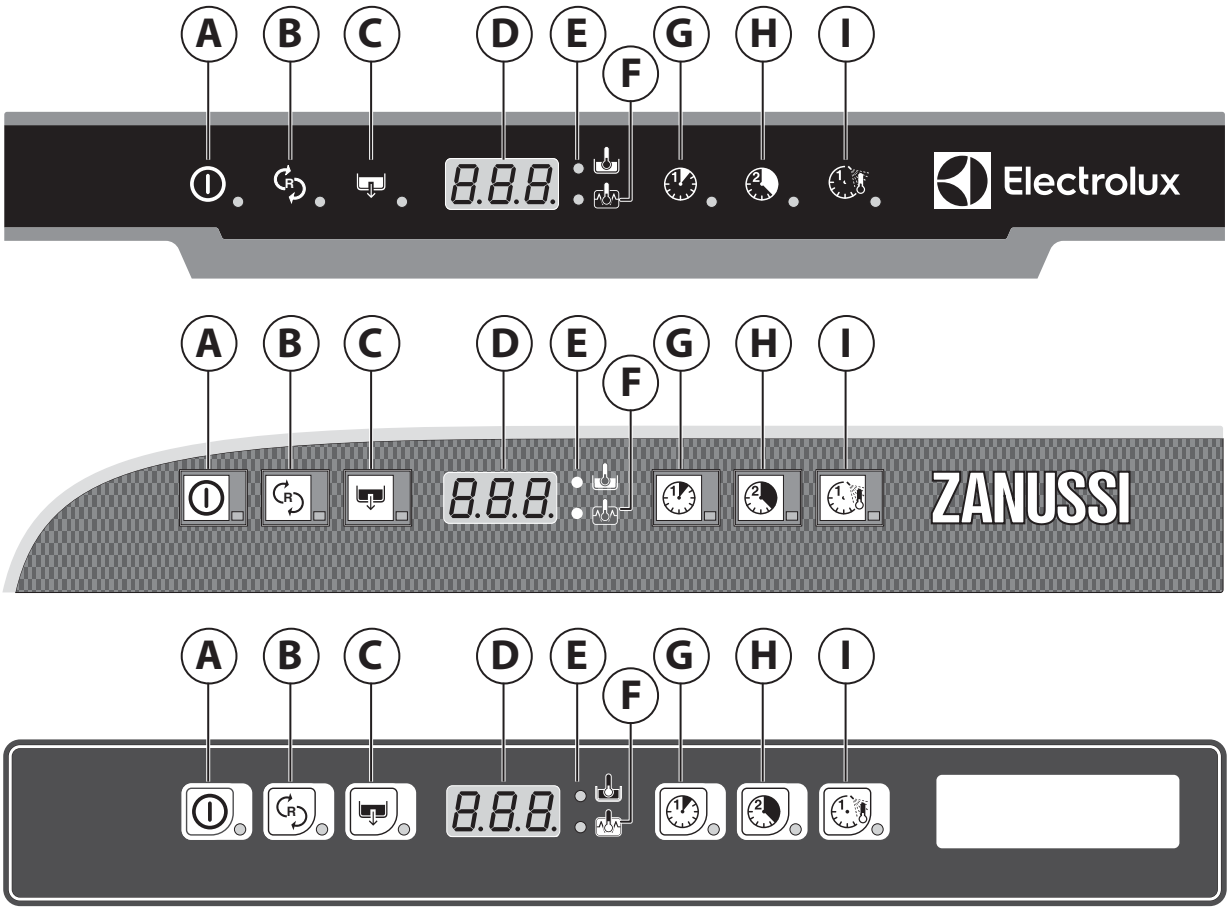
The following installation diagram gives the machine's overall dimensions and the position of the water and electrical connections.



Legend **WI** - Water inlet 3/4” G **D** - Drain outlet • Discharge pipe int. diameter: - 40 mm for model with gravity discharge - 20 mm for model with drain pump	**EI** - Power supply entry **XD** - Pipe entry for detergents **EQ** - Equipotential screw

Figure 9 Installation diagram

H DESCRIPTION OF CONTROL PANEL



Legend

A = ON/OFF button	E = "Tank temperature" indicator	H = Wash cycle 2
B = Softener regeneration cycle	F = "Boiler temperature" indicator	I = Wash cycle 1 with cold rinse
C = Drain / self-cleaning cycle		
D = Display	G = Wash cycle 1	

Table 3 Control panel

Described below are all the single buttons and functions available in the various control panel models listed above. Some functions are common to all models of the range, whereas others are available only on some versions.

H1 Basic controls

ON/OFF button (A)

Press this button to activate or deactivate the appliance. When the equipment is on, the button indicator is lit up.

Softener regeneration cycle (B)

When on the display appears "rEG", press this button to activate the regeneration cycle of the water continuous softener.

Drain / self-cleaning cycle (C)

Press this button to starts a drain/self-cleaning cycle. When the cycle is selected, the button indicator is lit up.

"Tank temperature" indicator (E)

When the water in the tank reaches the operating temperature, the indicator comes on.

"Boiler temperature" indicator (F)

When the water in the boiler reaches the operating temperature, the indicator comes on.

Wash cycle 1 (G)

This button starts wash cycle 1.
When the cycle is selected, the button indicator is lit up. This cycle is recommended for washing normally dirty dishes.

Wash cycle 2 (H)

This button starts wash cycle 2.
When the cycle is selected, the button indicator is lit up. This cycle is recommended for washing very dirty dishes.

Wash cycle 1 with cold rinse (I)

This button starts wash cycle 1 with a cold rinse at the end of the wash cycle. When the cycle is selected, the button indicator is lit up.

I COMMISSIONING

I1 Preliminary checks, adjustments and operational tests

I1.1 Electrical and plumbing checks

Before starting the machine, it is necessary to:

- check the correct connection of the electrical wires powering the machine;
- make sure the power supply voltage and frequency match the data given in Table 2;
- check the correct connection of the water supply and discharge pipes;
- make sure all the guard and safety devices are in place and efficient.

I1.2 Fitting of filters, overflow and wash arms check

Make sure the overflow “1”, the tank filter “2” (depending on the model), the upper and lower wash arms “3 and the upper and lower rinse arms 4” are correctly fitted (Figure 10).

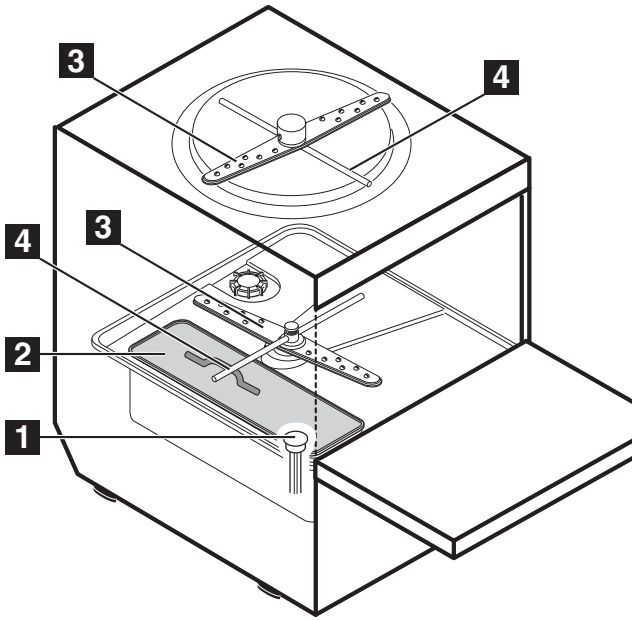


Figure 10 Tank filter, overflow, washer and rinse arms

I2 Commissioning

- Turn on the water supply tap.
- Activate the main switch ahead of the machine by turning it to “I”.
- Press the ON/OFF button (“A” - Table 3 “Control panel”).

I3 Detergent/rinse aid dispensers and prearrangements

If the machine is connected to a water softener and/or a reverse osmosis system, contact the detergent supplier for a specific product.

If the peristaltic dispensers are installed in the machine, the dosage of detergent/rinse aid is done automatically according to the desired concentration. The concentration of detergent/rinse aid depends on the type of product used and the hardness of the supply water (check the characteristics on the product label).

ATTENTION

The peristaltic dispensers (detergent) and the tube inside the rinse aid dispenser require periodical maintenance (at least once or twice a year) or after prolonged machine idle periods.

I3.1 Dishwasher with incorporated rinse aid dispenser (Figure 11)

To vary the dose, adjust the screw “D” as required (Figure 11).

To check the efficiency of the rinse aid look at a freshly washed glass. Drops of water on the glass indicate an insufficient dosage while streaks indicate an excessive dosage which can either be caused by the density or the quantity.

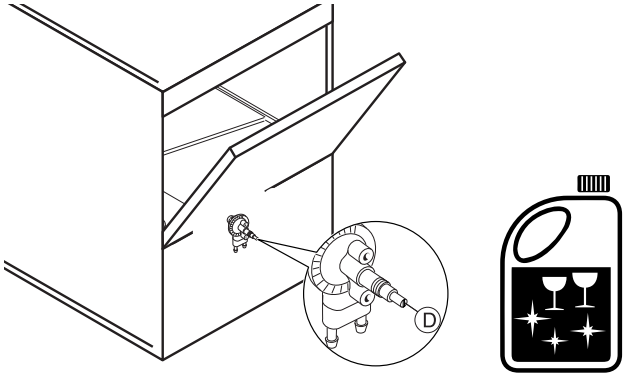


Figure 11 Rinse-aid dispenser

Info

Upon first installation, it may be necessary to activate the dispenser in the following way:

- press the screw in until the rinse-aid has filled the tube.

I3.2 Dishwasher with incorporated detergent dispenser.

Depending on the model.

Adjust the screw “L” to set the required dose (Figure 11).

The adjustment of the amount of detergent delivered by the pump must carefully comply with that indicated by the detergent producer.

This quantity is usually expressed in g./l and various depending on the water hardness.

Info

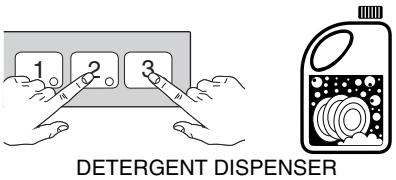
If changing to a different type of detergent rinse aid (even the same brand), it is necessary to rinse the inlet and outlet pipes with clean water before connecting the new detergent/rinse aid container. Otherwise, the mixing of different types of detergent/rinse causes a crystallization, with possible breakage of the dosing pump. Failure to observe this instruction will void the warranty and relieve the manufacturer of any liability.

I3.2.1 Detergent dispenser manual activation

Whenever the detergent containers are replaced, it may be necessary to activate the dispensers manually in order to fill the hoses and eliminate any air.

Proceed as follows:

- Simultaneously press the buttons, as shown in the figures below.



DETERGENT DISPENSER

- If necessary, repeat this operation several times.

I3.2.2 Setting the dispenser

All operations should be carried out with the appliance switched on, the door open and no cycle selected.

LEGEND

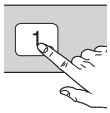
 Increase

 Decrease

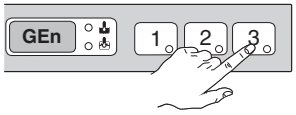
 Confirm or select next parameter

SEQUENTIAL START

Press the indicated buttons simultaneously for 5 seconds:

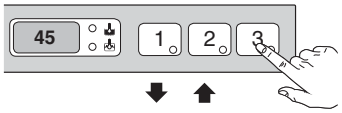


Display of programming mode:



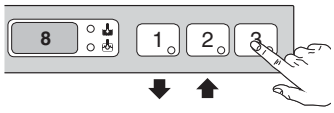
Initial amount of detergent:

Setting the activation time:

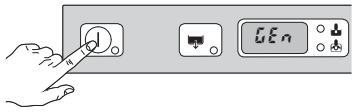


Amount of detergent during the cycle:

Setting the activation time:



Exit from programming mode:



Electrical connections for automatic dispensers.

The appliance has a terminal board for the power supply of dispensers operating at 230 V, max. power 30VA.

Connect to the terminal board “L” (B) to terminals 1 and 2 for dispensing during the rinse cycle or to terminals 3 and 4 for dispensing during the wash cycle.

Notes for external dispensers:

- if dEt: 101 the **detergent dispenser** only operates during **wash pump** operation; terminals **7-9** of the main terminal board are powered at the same time.
- if dEt: 102 the **detergent dispenser** only operates during **filling electrovalve** operation for restoring the boiler level; terminals **7-9** of the main terminal board are powered at the same time.

Example:

Supposing that an external detergent dispenser has been connected with a tank concentration measuring sensor, a standard setting could be as follows:

dIn:0 the dispenser is not activated during filling of the tank.

dEt: 101 the dispenser is activated during wash pump operation and, thanks to the concentration measured by the conduction sensor, the correct amount of detergent is dispensed.

IMPORTANT

For connections, see the wiring diagram.

J NORMAL MACHINE USE

J1 Foreseen use

Our appliances are designed and optimised to ensure high performance and efficiency. This equipment must only be used for its expressly designed purpose, i.e. washing dishes with water and specific detergents. Any other use is deemed improper.

J2 Characteristics of personnel enabled to operate on the machine

The operator for normal machine use must at least have:

- knowledge of the technology and specific experience in operating the machine;
- adequate general basic education and technical knowledge for reading and understanding the contents of the manual;
- including correct interpretation of the drawings, signs and pictograms;
- sufficient technical knowledge for safely performing his duties as specified in the manual;
- knowledge of the regulations on work hygiene and safety.

In case of a significant anomaly (e.g. short circuits, wires coming out of the terminal board, motor failures, worn electrical cable sheathing, etc.) the operator for normal machine use must:

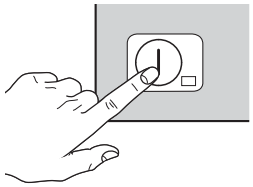
- immediately deactivate the machine by turning the main switch to “O”;
- turn off the machine's water supply.

J3 Suggestions

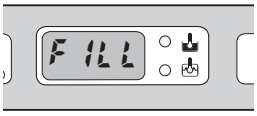
- Carry out a couple of wash cycles without dishes to clean the basin and piping of any protective or industrial grease which has remained.
- Avoid washing decorated crockery.
- Do not allow silverware to come into contact with other metals.
- Do not allow food residue to dry on the dishes.
- Remove large food scraps from the dishes in order to prevent the filters from clogging.
- Prewash the dishes by spraying them with cold or lukewarm water.
- Use the quantity and type of detergent specified by the detergent manufacturers.

J4 Daily activation of the machine

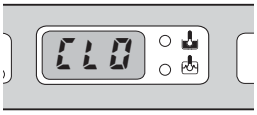
- Open the door and make sure the filters, arms and overflow are correctly fitted according to that indicated in par. I2Commissioning.
- Turn on the water supply tap.
- Activate the main switch ahead of the machine by turning it to “I”.
- Close the door and press button “A” (Table 3Control panel).



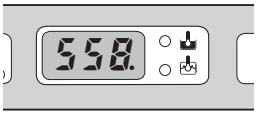
- The indicator light of button “A” comes on, indicating that the dishwasher is powered and that water is being introduced and heated.
- The word “FILL” is shown on the display during the entire filling and heating stage:



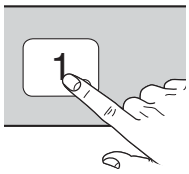
- If the door is opened during this stage the message “CLOSE” will appear on the display:



- The filling and heating stage has finished when the display shows the tank temperature:



- To display the boiler temperature during heating of the tank, open the door and press the button “G” (Table 3Control panel).



J5 Wash cycles

Duration of standard cycle with supply water at 50°C.

Cycle 1	Cycle 2	Cycle 1 + cold rinse
120” 60”(*)	300” 120”(*)	120” 66”(*)
(*) Only for EGWSICGMS-ZGWSICGMS		

- **Cycle 1, 120 seconds:** it corresponds to a 90 second wash cycle with hot water and detergent, a pause of 10 seconds and a 16 second rinse cycle with hot water and shining product and a pause of 4 seconds.
- **Cycle 2, 300 seconds:** it corresponds to a 270 second wash cycle with hot water and detergent, a pause of 10 seconds, a 16 second rinse cycle with hot water and shining product and a pause of 4 seconds.

- **Cycle 1 with final a cold rinse, 120 seconds:** it corresponds to a 90 second wash cycle with hot water and detergent, a pause of 4 seconds, a 16 second rinse cycle with hot water and shining product and a cold rinse of 10 seconds.

A device lengthens the cycle duration if the water in the booster has not reached the minimum temperature for doing the rinse properly.

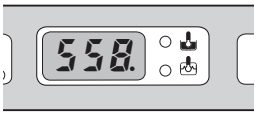
The cycle times and the temperature may be personalised (e.g. increase of the rinse time and temperature).

ATTENTION

The cycle times should only be set by a specialised technician.

J6 Operation

The wash cycle includes one wash with hot water and detergent and one rinse with hot water and rinse-aid:

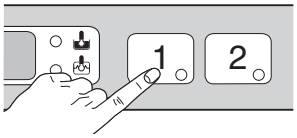


The equipment is then ready for use:

1. Open the door.
2. For the model without detergent dispenser, pour the required amount of detergent into the tank.
3. Insert the rack with the dirty dishes.
4. Close the door and activate the required washing cycle; the corresponding indicator lights up and the wash cycle starts.

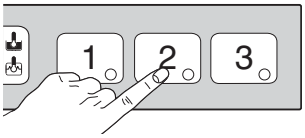
- Cycle 1

For not very dirty dishes or glasses.



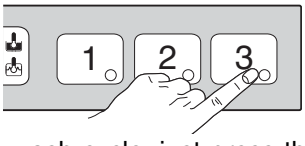
- Cycle 2 (recommended)

For very dirty dishes.



- Cycle 3

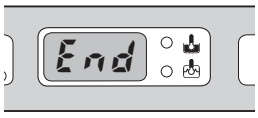
For glasses and jars for beer



5. To stop the wash cycle, just press the cycle button or open the door.

6. To continue the wash cycle, press the cycle button again or close the door. The cycle starts from where it was interrupted.

7. At the end of the wash, the dishwasher emits a series of beeps and "End" blinks on the display:



8. Open the door and remove the rack containing the clean dishes.

Info

Change the water in the tank some times a day, as soon as necessary.

J6.1 Basket loading

Place cups and glasses of different dimensions up side down in the supplied basket, using also the special cutlery container.

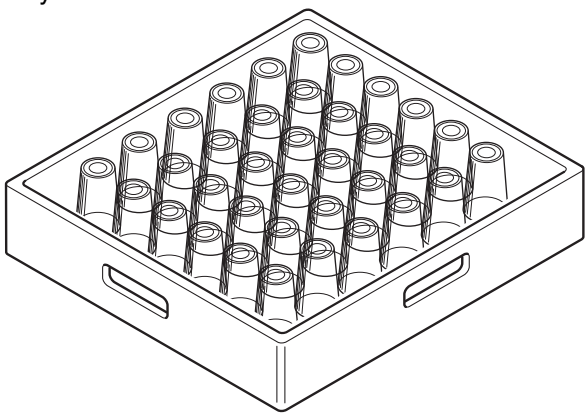


Figure 12 Basket and cutlery container

Info

Baskets for washing dishes which have non standard shapes and dimensions are available on request.

J7 Regeneration cycle

To reduce problems caused by the presence of calcareous substances in the water supply, a water softener device has been fitted in the rinse circuit of the dishwasher. This device removes the calcareous substances from the feed-water, supplying decalcified water necessary for the washing.

For the correct operation of the water softner, the periodical regeneration of the resins, whose frequence depends on the number of washing cycles and water hardness, must be carried out.

This dishwasher has a built-in counter which keeps track of how many wash cycles can be carried out before a regeneration cycle must take place.

When the water softener device has an autonomy of just 15 cycles left, at the end of each wash cycle the display will alternately show the message "End" and the number of wash cycles (from 15 to 0) remaining before the message "rEG" appears, indicating that regeneration is advised.

The relevant water supply company will be able to provide all the instructions regarding the water hardness.

Degrees of water hardness

Level	Characteristic	Degrees		
		°fH	°dH	°cH
1	soft	0 - 5.5	0 - 3	0 - 4
2	medium	7 - 14	4 - 8	5 - 10
3	hard	16 - 26.5	9 - 15	11- 18.6
4	very hard	> 27	> 16	> 19

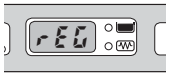
WATER HARDNESS in °fH/°dH/°cH / REGENERATION FREQUENCE in Nr of cycles

°fH	°dH	°cH	Nr
10 - 15	5.6 - 8.4	7 - 10.5	200
16 - 20	9.0 - 11.2	11.2 - 14	140
21 - 25	11.8 - 14.0	14.7 - 17.5	100
26 - 30	14.6 - 16.8	18.3 - 21	70
31 - 35	17.4 - 19.6	21.8 - 24.6	50
36 - 40	20.2 - 22.4	25.3 - 28	30
The water softener device is factory-set to the value of 20 cycles since this is generally sufficient for most uses. During installation of the appliance, the installation technician should nonetheless check the correct setting of this value.			

The regeneration of the resins is carried out by means of a special regeneration cycle with coarse salt, following the instructions described hereinafter.

IMPORTANT:
Only use coarse salt with a purity level of 99.8% NaCl. The use of salt with a lower purity level can cause clogging of the salt container filter and malfunctioning of the water softener.

When the message "rEG" appears on the display,activate the cycle to regenerate the resins:



1. Open the door.
2. Remove the rack, the overflow and drain the water in the tank.
3. Open the salt container by unscrewing the cap.

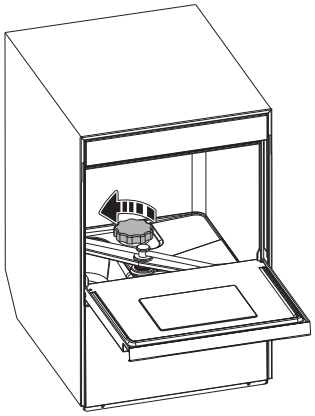


Figure 13 Salt container cap

4. Fill it with salt for softners or coarse salt up to 2-3 cm from the upper edge (make shure the container is filled with water before pouring any salt inside).
5. Clean the thread of the container from any salt deposits before closing the cap. Remove the salt from the basin if it overflows the container.

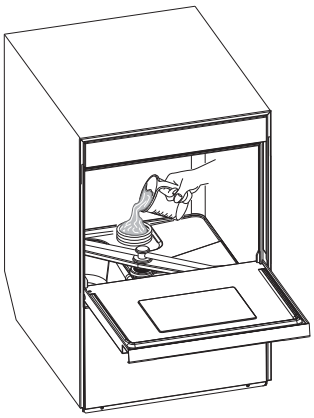


Figure 14 Filling salt container

IMPORTANT:
Only salt may be placed in the salt container. Do not introduce any other chemical substances such as detergent, rinse aid or descaling agent, since these would inevitably damage the appliance. Such damage invalidates any warranty and relieves the manufacturer of all liability.

6. Close the door.
7. Start the regeneration cycle by pressing the corresponding button for at least 5 seconds.
8. During the regeneration cycle the display alternately links two symbols: "0" and "C J":
9. After about 30 minutes, 3 beeps indicate the end of the regeneration cycle and "End" blinks on the display:
10. Replace the overflow.
11. Close the door.

The dishwasher is now ready to start the normal working functions.

ATTENTION

If the regeneration cycle is accidentally started, it can be switched off by pressing the same button for at least 5 seconds.

The regeneration cycle is temporarily stopped:
- **in the event of a power failure,**
- **if the door is opened,**
- **if the machine is switched off.**

The cycle will be completed only when normal conditions are reinstated: the symbol "0" and the symbol "C J" will flash alternately on the display.

J8 Machine cleaning

ATTENTION!

Before carrying out any maintenance operations, turn off the power at the mains (except in versions with drain pump).

ATTENTION

The following operations must be carried out by operators provided with suitable personal protection equipment (e.g. protective gloves, etc.) and with the machine switched off and cold.

Cleaning must be carried out after every day of use. Use hot water, a neutral detergent/cleaner if necessary, and a soft brush or sponge. If another type of detergent is used, carefully follow the producer's instructions and observe the safety rules given in the information sheets provided with the product or substance.

In order to reduce the environmental impact of pollutants it is advisable to clean the appliance (externally and, where necessary, internally) with products that are more than 90% biodegradable.

- Periodically have the appliance totally checked (at least once a year). For this purpose it is recommended to draw up a maintenance contract.
- Descale the rinse jets each month using vinegar or a descaling agent.
- Leave the door open when not using the appliance for a longer period

ATTENTION!

Do not use steel wool or similar material to clean stainless steel surfaces. Do not use detergents containing chlorine.

ATTENTION!

Contact with chemical substances (e.g. detergent, rinse aid, scale remover, etc.) without taking appropriate safety precautions (e.g. personal protection equipment) can involve exposure to chemical risk and possible damage to health. Therefore always refer to the safety data sheets and labels on the products used.

J8.1 End of service and daily internal cleaning

- Turn off the electrical switch ahead of the equipment.
- Turn off the water supply tap.
- Drain the water and cleaning the washing tank.

J8.1.1 Water drain and cleaning of the washing tank

The water must be changed and the tank cleaned regularly.

- Removal of dirty water from the tank.
  - For the models without drain pump, remove the overflow pipe from its housing.
  - For the models with drain pump, remove the overflow pipe from its housing and press the button “Drain / self-cleaning cycle (C)” until the washing tank is empty.
- Press button A to switch off the machine.
- Cleaning the tank.
  - Remove any residues on the bottom of the tank with a sponge and wash with clean water. For cleaning, use washing-up detergent or water and vinegar solution. Do not use abrasive detergents or powers that might damage the internal parts. To eliminate any incrustation, use a sponge or brush with soft plastic bristles.
- Door seal cleaning.
  - Use a soft cloth to remove any residues on the door by washing with clean water.
- Fill the washing water level.
  - Fit the overflow pipe back on and fill the water level in the tank.

J8.1.2 Cleaning the tank filter:

If the machine fails to wash correctly, make sure the filter is not dirty or clogged. It is a good idea to check this, at least **every 20 cycles**, when the tub is empty, whenever the washing water is changed.

- Removing and cleaning the filter.
  - Take out the filter and wash it under a strong jet of water. In case of difficult deposits or residues, use a common detergent for dishes and a brush with soft plastic bristles.
- • Fitting the filter.
  - Fit the filter back into previous position.

ATTENTION!

Make sure the filter is properly fitted back in its housing otherwise the machine may not work properly.

Never use the machine without the filter.

J8.1.3 Cleaning the washer and rinse arms

If the machine does not wash properly, make sure that the spray nozzles are not blocked.

It is a good idea to perform a weekly check to ensure correct operation of the washing and rinsing nozzles.

- Removal of the washing “3” and rinsing arms “4” (Figure 15).
  - Loosen and remove the retention screws of upper and lower arms.
- Checking and cleaning the rinsing nozzles.
  - Make sure the nozzles are free of any impurities preventing the correct flow of water. In the event of scale, treat the unit with a specific scale prevention product according to the specific product use instructions.
- Fit the lower and upper washer and rinse arms and fasten them in position by means of the relevant retention screws.

The dishwasher is now ready to start the normal working functions.

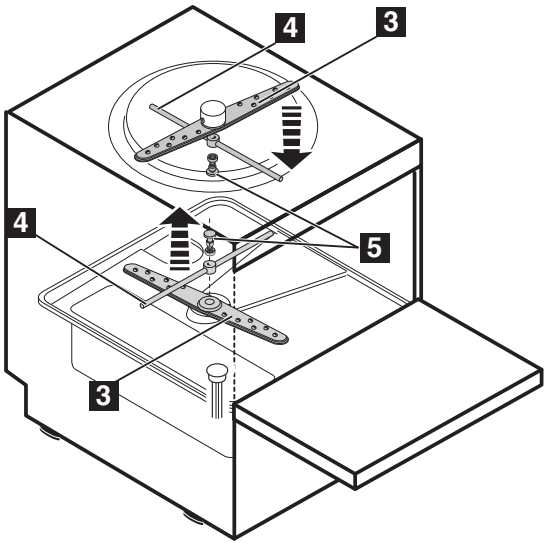


Figure 15 Cleaning the washer and rinse arms

J8.2 Long idle periods

Whenever the dishwasher is not going to be used for a long period of time (e.g. one month), carefully carry out the following instructions.

- Turn off the water tap.
- Empty the tank completely.
- Remove and carefully clean filters.
- Empty the pipes of the incorporated dispensers by removing the pipes from the tanks.
- Clean the inside and outside of the machine.
- Spread a film of paraffin oil on the steel surfaces.

When using the machine again, follow the instructions in par. J4 “Daily activation of the machine”.

J8.3 Cleaning exterior surfaces

Disconnect the equipment from the power supply before doing any cleaning.

ATTENTION

Wash the stainless steel surfaces with lukewarm soapy water, absolutely avoiding the use of detergent products containing abrasive substances, steel wool, steel scrapers or brushes, then rinse with a wet cloth and dry thoroughly.
Clean the control panel with a soft cloth moistened with water and, if necessary, neutral detergent.

J9 Maintenance

ATTENTION

Machine maintenance operations must only be carried out by specialised Technicians provided with all the appropriate personal protection equipment (safety shoes, gloves, glasses, overalls, etc.), tools, utensils and ancillary means

The inspection and maintenance intervals depend on the actual machine operating conditions (total wash hours) and ambient conditions (presence of dust, damp, etc.), therefore precise time intervals cannot be given. In any case, careful and periodical machine maintenance is advisable in order to minimise service interruptions.

Therefore, it is advisable to:

- Descale the booster, inner surfaces of the tank and the machine's pipes once or twice a year (call the After-Sales Service).
- Every month descale the wash and rinse jets with vinegar or scale remover.
- The internal tube of the peristaltic rinse aid and detergent dispenser must undergo periodical maintenance (once or twice a year).

Info

We advise asking your Dealer for a “Periodical Maintenance” contract covering all correct operation checkups and any replacement of parts subject to wear that become necessary over the years and which are considered extraordinary maintenance jobs.

J10 Alarms

In case of a generic dishwasher fault, the display shows the relevant alarm code.

Code	Description	Cause / Solution
A1 (*)	**NO WATER**	- Check that the cock is open. - Check that the water inlet filter is clean. - Check the minimum mains pressure. - Check that the overflow pipe is inserted.
B1	**INEFFICIENT DRAINAGE**	- Check if the overflow has been removed. - Check for obstruction on the waste outlet pipe and the overflow aperture.
B2	**TANK WATER LEVEL TOO HIGH**	- Check for obstruction on the waste outlet pipe and the overflow aperture.
C1..C11	**CALL THE SERVICE CENTRE**	
E1..E3	**CALL THE SERVICE CENTRE**	- The appliance continues to operate, but appropriate checks by a technician are recommended.
F21..F22	**CALL THE SERVICE CENTRE**	

J11 Troubleshooting

THE DISHWASHER DOES NOT SWITCH ON
1. Make sure the socket is powered. 2. Make sure the plug is properly inserted in the power socket. 3. Check the fuse. If necessary replace it.
THE DISHWASHER DOES NOT FILL WITH WATER
1. Make sure that the water tap is open. 2. Make sure that the filter in the inlet hose and the filter in the water solenoid valve are not clogged. 3. Make sure that the inlet hose has no kinks or bends.
THE DISHWASHER MAKES EXCESSIVE NOISE
1. Check possible contact with furniture or sheet metal that could cause noise or vibrations. 2. Make sure that the glasses or dishes are correctly and stably loaded on the basket.
WATER LEKEGES UNDER THE DISHWASHER
1. Check possible contact with furniture or sheet metal that could cause noise or vibrations. 2. Make sure that the drain hose is not blocked and correctly installed. 3. Make sure that the water inlet hose is correctly installed and not damaged;
THE DISHWASHER DOES NOT WASH PROPERLY
1. Check the suction filter and carefully clean it if dirty. 2. Make sure the wash jets are not clogged by solid residuals. 3. Make sure the initial quantity of detergent and/or subsequent additions are correct. 4. The wash cycle used is too short. Repeat the cycle. 5. Make sure the tank temperature is at least 55°C / 131°F. 6. Make sure the dishes are correctly placed in the racks.
THE DISHWASHER DOES NOT WASH PROPERLY
1. Check the suction filter and carefully clean it if dirty. 2. Make sure the wash jets are not clogged by solid residuals. 3. Make sure the initial quantity of detergent and/or subsequent additions are correct. 4. The wash cycle used is too short. Repeat the cycle. 5. Make sure the tank temperature is at least 55°C / 131°F. 6. Make sure the dishes are correctly placed in the racks.
GLASSES AND DISHES ARE NOT PROPERLY DRIED
1. Make sure there is rinse aid in the container and top-up if necessary. 2. Check the amount of rinse aid used. 3. Make sure the rinse water temperature is between 80°C and 90°C.
CONDENSATE ON GLASSES
1. Make sure there is rinse aid in the container and top-up if necessary. 2. Check the amount of rinse aid used (see paragraph I3.1). 3. Remove the rack of the glasses immediately after the end of the cycle.
STAINS ON GLASSES
1. Only use "non-foaming" products for professional dishwashers.
EXCESSIVE FOAM IN THE TANK
1. Make sure the wash water temperature is not below 55°C / 131°F. 2. Check if the detergent dispenser delivers an excessive dose of product (see paragraph I3.2). 3. Make sure the tank has been cleaned with suitable detergents. Empty the tank and rinse thoroughly before doing other wash cycles. 4. If a foaming detergent was used, empty and refill the tank with water until the foam has disappeared.
GLASSES WITH STREAKS OR SPOTS
1. Reduce the amount of rinse aid (see paragraph I3.1).
THE WASH AND/OR RINSE ARMS TURN SLOWLY
1. Remove the arms and clean them thoroughly. 2. Clean the wash pump suction filter.

J12 Machine disposal

At the end of the product's life-cycle, make sure it is not dispersed in the environment. The equipment must be disposed of in compliance with the regulations in force in the country of use.

All metal parts are in stainless steel (AISI 304) and removable. Plastic parts are marked with the letters of the material.

The symbol  on the product indicates that it should not be treated as domestic waste, but must be correctly disposed of in order to prevent any negative consequences for the environment and human health. For further information on the recycling of this product, contact the local dealer or agent, the after-sales assistance service or the local body responsible for waste disposal.

ATTENTION!
When scrapping the machine, the marking CE must be destroyed.