



Simply Built to Last

TECHNICAL INSTRUCTION MANUAL

USER MANUAL

UNDER COUNTER

EN

JEMID

GS 35

GS 40 S

GS 40

GS 50

GS 50 3P

GS 60



CE 0370



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IMPORTANT:

Specific detergent products for industrial use must be used, checking that the **SANITARY REGISTRATION number appears on the packaging. Failure to do so will result in the loss of the warranty.**

1. Introduction:

This manual provides the necessary information for the start-up, operation, and maintenance of the following undercounter dishwasher models: GS 35 / GS-40 S / GS-40 / GS 50 / GS 50 3P / GS 60.

The operation of the machine is simple, thanks to the system of rotating arms, the washing water at 55°C is projected in the form of a fan against the dishes, with a circulation equivalent to a flow rate of 250 liters per minute. After washing, rinsing is carried out at 85°C, in this process water is mixed with polish automatically and its mission is to evaporate the water evenly, leaving the dishes dry and shiny for service.

1.1 Prerequisites for commissioning:

We must have the following elements (described in the installation drawings, attached to this manual).

- Ground level drainage. If you have the drain on the wall, a drain pump will be necessary (with it, maximum height 1.2m from the ground).
- Water intake with stopcock, finished in 3/4" thread. Rev.9.
- Three-phase or single-phase power line on request, with electrical panel equipped with circuit breaker and differential. According to international standards, the main switch must have a minimum contact spacing of 3mm.
- Protection line (grounding).
- Use softened water. Rev.10.

1.2 Machinery equipment and preparation:

The machine is equipped with:

- Ø19x12 pressure rubber, with their respective 3/4" connection fittings and gaskets.
- Drain rubber Ø35mm.

	Plate basket 400 x 400	Plate basket 500 x 500	Basket Dishes 600 x 500	Universa l basket 350 x 350	Universa l basket 500 x 500	Universa l basket 600 x 500	Plate inserter	Cutlery basket
GS-35	-	-	-	1	-	-	1	1
GS-40 S / GS-40	1	-	-	-	-	-	1	1
GS 50 / GS 50 3P	-	1	-	-	1	-	-	1
GS 60	-	-	1	-	-	1	-	1

ALL MACHINE CHECKS AND CONNECTIONS MUST BE CARRIED OUT BY QUALIFIED TECHNICAL PERSONNEL OR BY THE OFFICIAL SERVICE

Proceed to the leveling of the machine by turning the adjustable feet, according to the needs of the floor.

Connect one end of the water inlet hose to the stopcock, and the other end to the inlet of the solenoid valve, located at the bottom front of the machine.

Connect the drain hose, one end to the general drain pipe of the machine, and the other to the external general drain (see installation plan Ap.18)

ELECTRICAL CONNECTION

ATTENTION

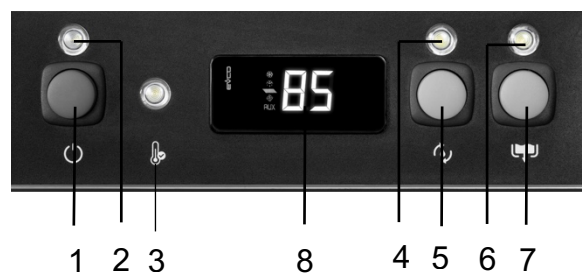
CHECK THE MAINS VOLTAGE AND CHECK IT WITH THE MACHINE'S VOLTAGE

The machine must be connected to one of the following voltages: **400V 3N~+T**
230V 3~+T

According to voltage indicated on the rating plate.

For other voltages consult us.

1.3 Dashboard:



1. Start switch.
2. Start-up indicator light.
3. Correct temperature indicator light.
4. Washing cycle indicator light.
5. Washing cycle button.
6. Drain pump indicator light.
7. Drain pump button.
8. Rinse temperature thermometer

1.4 Commissioning:

Once the operations indicated in the previous chapter have been carried out, they will be commissioned by the usual installer, or the Official Technical Service.

- Connect the machine to the power line. Ap.3.
- Connect the hoses. Ap.3.
- Detergent. The machine has a socket for the connection of the detergent inlet pipe, visible as soon as the lower front panel is removed. The installation of an automatic detergent dispenser is recommended (not included). If dosing manually, pour the detergent into the tank. The amount of detergent recommended in Ap.8.
- Place the tank filter and overflow tube in position.
- Do a complete cycle (Ap.6), to check the operation of:
 - Thermometers
 - Resistances
 - Tank filling

1.5 Operating Process (User):

THE MACHINES ARE FOR PROFESSIONAL USE AND MUST BE USED BY QUALIFIED PERSONNEL.

- Place the tank and overflow filter and close the door.
- Press the **dark grey** button Fig1.Nº1 to give current to the entire circuit of the machine.
- The tank is filled automatically until the working level is reached, when this level is reached, if there is a pending program, the machine will finish it, and if there is not, the machine will begin the heating phase starting with the boiler.
- Once the working temperature in the tank (85°C) has been reached, the heating element is disconnected, and the tank heating element is connected until the working temperature (55°C) is reached, when this temperature is reached, the white light Fig1.Nº3 is lit. With this process, we limit the installed power, since they cannot work, the resistance of the boiler and the tank at the same time. The resistors cannot be switched on if the water has not reached its level, since until then the pressure switch has the resistor circuit open.
- The detergent shall be dosed in accordance with paragraph 8.
- Insert the basket with the dishes correctly placed.
- Once the washing machine has been ready, with the door closed, we activate the **light blue** gray button Fig1.Nº5. and in a few seconds the **blue** light Fig1.Nº4. corresponding to the washing cycle will come on. Later it will give way to the different stages of the cycle: washing, rinsing and dosing of polishing liquid.
- At the end of the cycle, the **blue light** Fig1.Nº4 will be switched off. Open the door. Remove the basket with the dishes clean.
- Insert a new basket to wash and repeat the operation process.

THE TANK (NOT INCLUDED) CONTAINING THE RINSE AID MUST ALWAYS HAVE LIQUID ABOVE THE LEVEL OF THE SUCTION DUCT.

1.6 Emptying the machine:

- Turn off the machine by pressing the ~~dark-grey~~ green button Fig1.nº1 (the ~~green-light~~ turns off).
- Open the door, take out the basket with crockery, and take out the overflow tube, the water in the tank will be emptied by gravity. Ap.14 (Option with drain pump). Fig2.
- Clean. Rev.12.

ATTENTION:

THE TEMPERATURE OF THE WATER IN CUBA CAN EXCEED 50°C, THERE IS A RISK OF SLIGHT BURN, WAIT TWO MINUTES WITH THE DOOR OPEN.



Fig2.

1.7 Detergent and rinse aid:

Use specific detergents for industrial dishwashers.

DO NOT USE HAND WASHING DETERGENTS, AS THEY PRODUCE A LOT OF FOAM AND ARE VERY DIFFICULT TO REMOVE.

- In case you do not have the detergent dispenser installed.
- The first dosage at the beginning of the day or after a water change should be 150 grams (half a cup of coffee with milk) in the hot water of the vat, then about 50 grams will be dosed every 10/12 washes.
- Together with the rinsing water and using a dispenser, rinse aid liquid is mixed, which is intended to give the dishes a correct presentation.
- The rinse aid is placed in a plastic tank that is connected to the dispenser by a bluish plastic tube.
- The dose of rinse aid to be supplied by the dispenser is regulated by the factory (approximately 0.3 grams/liter).
- The tank should never be left empty, as the function of the dosing unit would be affected (the correct amount is not supplied due to the fact that there is air inside the duct).

ATTENTION:

**TAKE PRECAUTIONS IN THE HANDLING OF
DETERGENTS AS THEY ARE CAUSTIC PRODUCTS**



1.8 Water pressure:

For the machine to function properly, the inlet water pressure must be between 2 and 4 atmospheres (200 – 400kPa), in order to obtain a good rinse and a correct presentation of the dishes.

If the pressure is lower than that indicated above, it is ESSENTIAL to attach a pump to the water inlet circuit, with the following characteristics:

- Pressure: 2 atmospheres (200 kPa).
- Power: 1/4 HP.
- Single-phase 230V.

THESE COUPLINGS MUST BE CARRIED OUT BY THE USUAL INSTALLER OR THE OFFICIAL TECHNICAL SERVICE.

1.9 Water hardness:

An important chapter in the washing of dishes is made up of the water softener, a device designed to remove the limescale contained in the water. The lime precipitates on the material, placing a calcareous film: veil on the glass, fillings in the jets, incrustations in the resistors...

With a water softener, the problem is eliminated, and its consequences, recommending that one be placed whenever the hardness of the water exceeds 5°HF.

IF YOU DO NOT USE SOFTENED WATER, PROBLEMS CAUSED BY LIMESCALE VOID THE WARRANTY

2.0 Possible incidents:

The machine does not fill the vat.	• Inlet valve closed, or not connected, connect hose and open valve. • Clogged or faulty solenoid valve, clean filter, or replace solenoid valve. • Defective pressure switch, replace.
Insufficient pressure.	• Clogged filter, clean.
Defective rinse.	• Clogged rinse jets, clean.
Defective washing.	• Clogged jets, clean. • Dirty water, empty the tank and clean the filter. • Lack of water due to dirt in the filter, clean the filter. • Temperature, check thermostat regulation and tank resistance. • Dirt not removed, ensure that the detergent concentration is sufficient. • The arms do not rotate, disassemble them and ensure their correct placement.
Presence of foam.	• Wrong detergent, change detergent type. • Excess rinse aid, check rinse aid concentration. • Defect in tank temperature, check thermostat regulation and tank resistance.
Wet dishes.	• Lack of rinse aid, empty rinse aid tank, regulation of the dispenser or defective dispenser. • Lack of temperature in rinsing, check the resistance of the boiler, as well as the regulation of its thermostat.
Glass with grease film.	• Excess rinse aid, regulate the dispenser.
Whitish glass.	• Water with excess limescale, damaged or missing water softener.
Glass with marked drops.	• Water with excess limescale, damaged or missing water softener. • Lack of rinse aid, empty rinse aid tank, regulation of the dispenser or defective dispenser.

The aforementioned points are original, for any query or problem resolution, contact our Technical Service.

2.1 Storage:

For the good maintenance of the machine, it is essential to comply with the following points.

ALL MAINTENANCE OPERATIONS WILL BE CARRIED OUT WITH THE MACHINE DISCONNECTED FROM THE POWER SUPPLY, START-UP SWITCH OFF AND THE MAIN SWITCH DISCONNECTED.

- Empty it daily, removing the overflow tube and cleaning its interior. Fig.2.
- Remove the filters from the pump and wash them under a tap. Fig.3.



Fig3

- Remove the washing arms and clean them of impurities. They are removed by unscrewing the screw counterclockwise and then pulling them up. Fig.4.



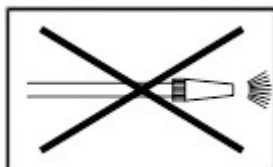
Fig4.

- Check if the rinse jets are clogged.
- Clean the inside and outside of the machine with neutral detergents (not oxidizing or abrasive).
- Once the above operations have been carried out, place all the pieces in the corresponding place, leaving the door open to finish drying the interior and avoid odors.

The machine is ready to do its job the next day.

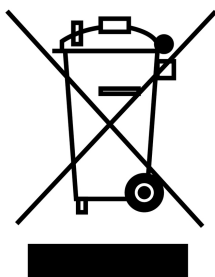
WE RECOMMEND A GENERAL SERVICE AT LEAST ONCE A YEAR.

DO NOT CLEAN THE MACHINE WITH PRESSURIZED WATER



2.2 Waste management:

Disposal of packaging material: comply with the rules, so that they can be reused.



- The European standard on the disposal of electrical and electronic equipment indicates that household appliances should not be disposed of in the same way as municipal solid waste.

Disused appliances must be collected separately to optimise the percentage of recovery and recycling of the materials that compose them and prevent potential damage to health and the environment. The crossed-out bin symbol is found on all products to remind you of the separate collection obligation.

For more information on the correct disposal of household appliances, owners of the same may contact the responsible public service or resellers.

2.3 Drain pump (Optional):

This device should be used in premises that, for some reason, do not have a ground-level drain and therefore the water that remains after a wash cycle, must be sent to the wall drain via the pump.

When the machine starts the rinsing cycle (more water enters the washing tank), the drain pump begins to absorb the water remaining in the tank and sends it to the drain, the indicator light Fig1.n°6 comes on.

At the end of the cycle, to empty the machine, remove the overflow pipe, and turn off the machine by pressing the ~~dark grey~~ **green** button Fig1.n°1 (the ~~green~~ light turns off). With the machine plugged in, press the Fig1.n°7 button, and the machine will empty automatically. The door may be open in this operation.

ATTENTION

**THE MAXIMUM RECOMMENDED HEIGHT TO CONNECT THE DRAIN
IT MUST BE A MAXIMUM OF 600 MM.**

2.4 Peristaltic dosing pump (Optional):

- Suction height: 1.5m.
- Working time: 0 to 4s $\pm 15\%$
- Pause Time: 0 to 4s $\pm 15\%$

In the installation phase of the pump, see NAMEPLATE.

CHECK:

- The membrane tube is made of the material compatible with the product to be dosed.
- The supply voltage is applicable.
- The pressure at the suction point is equal to or less than the nominal pressure.
- The suction hose must be immersed in the product tank and connected to the suction fitting of the pump (marked by the symbol ▲ on the lid) and secured with its corresponding nut.
- The product outlet pipe must be connected to the outlet (marked by the ▼ symbol on the lid).
- The pump is connected to the mains, so that there is a single-pole interrupting device with a contact opening distance of at least 3mm.

FAILURE TO FOLLOW THE ABOVE WARNINGS MAY RESULT IN INJURY TO PERSONS OR IMPROPER OPERATION AND DAMAGE TO THE MACHINE

THIS PRODUCT SHOULD BE USED EXCLUSIVELY AS A COMPONENT TO BE PLACED INSIDE A MACHINE.

BEFORE CARRYING OUT ANY INTERVENTION ON THE PUMP, DISCONNECT THE SUPPLY VOLTAGE FROM THE MACHINE.

ASSEMBLY INSTRUCTIONS.

CONNECTION TO THE CUBA.

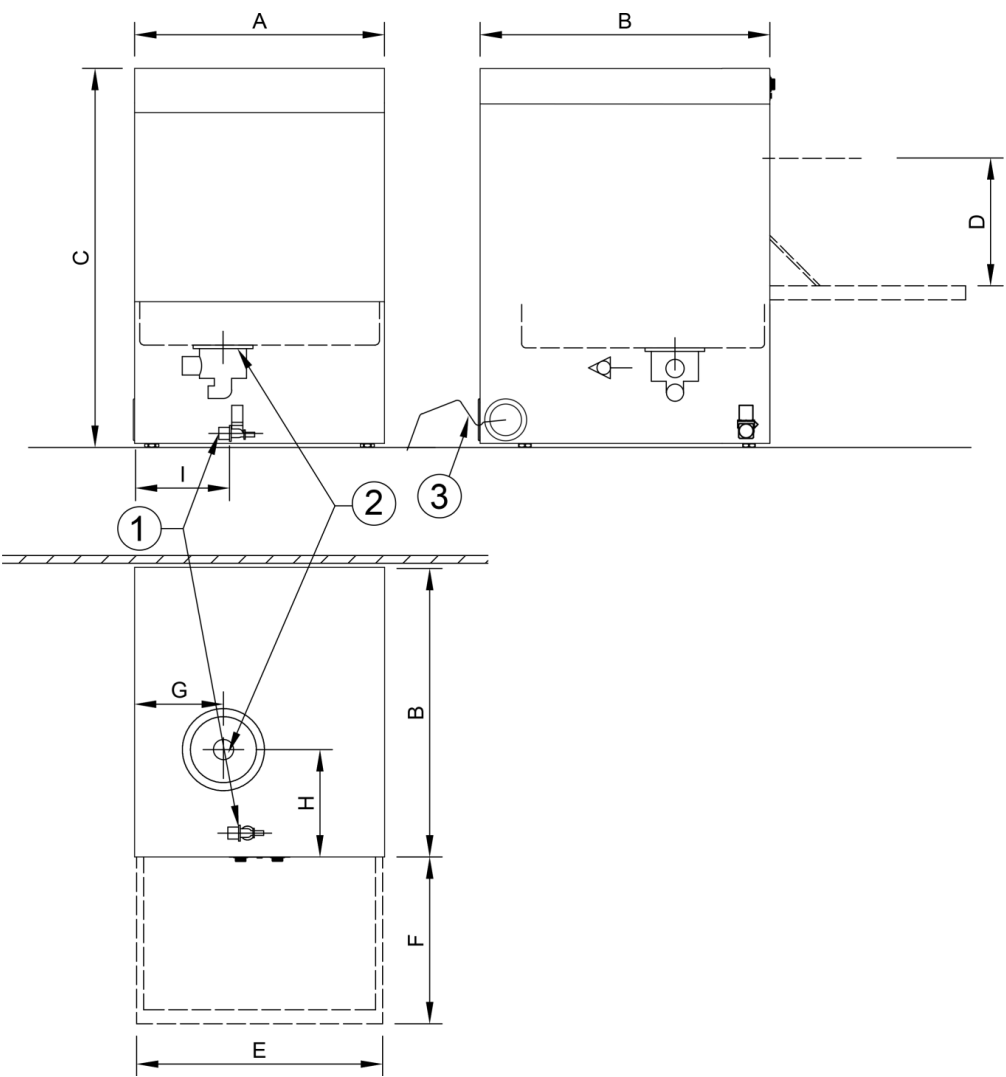
Connect the pump outlet pipe to the machine's metal detergent socket. It is located on the front side of the machine, hidden by the closing plate on the front.

The iron must be dismantled to see the detergent intake.

2.5 Safety warnings:

- Any use of the machine for which it has not been designed will be considered unsuitable and therefore dangerous.
- The qualified professional who performs the installation must teach the user about the operation of the machine, and the safety rules that must be respected.
- Any intervention on the machine must be carried out by the usual Installer, or the Official Technical Service.
- Before carrying out any cleaning, maintenance or repair operations, disconnect the machine from the electrical and hydraulic network.
- The machine should be used only by trained personnel.
- At the end of the day, remove the tension from the appliance.
- Do not use the machine as a stand, the machine has been designed to support the weight of the objects to be washed.
- Do not use the machine to wash objects for which it has not been designed (shape, size, material, ...)
- To avoid damage to the machine, remove solid residues from the objects to be washed.
- If fluid leaks are observed or the machine is not working properly, disconnect the machine from the mains, and turn off the water flow.
- Do not expose the machine to atmospheric agents (rain, sun...).
- Do not start a program if the overflow is not in place.
- Do not bring magnetic objects close to the machine.
- For cleaning the machine, do not use steel brushes, abrasive sponges or acids.
- Do not use pressurized water to wash the machine.

INSTALLATION DRAWING:



	A	B	C	D	E	F	G	H	I
GS 35	400	500	635	245	385	255	50	245	95
GS 40 S	450	545	670	245	435	255	130	190	130
GS 40	450	545	740	290	435	325	130	190	130
GS 50 / GS 50 3P	550	620	820	360	535	405	155	285	220
GS 60	550	695	820	360	535	405	155	285	220

1. ENTRADA AGUA: 3/4" Máx. 60°C

2. DESAGÜE: Ø50 mm. Mín.

3. LONGITUD CABLE:

GS 35 /GS 40 S / GS 40 / GS 50

1,5m.

3 x 1,5 mm². 230V II

GS 50 3P / GS 60

1,5m.

5 x 2,5 mm². 400V III

4 x 4 mm². 230V III



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