

Instructions for use and maintenance

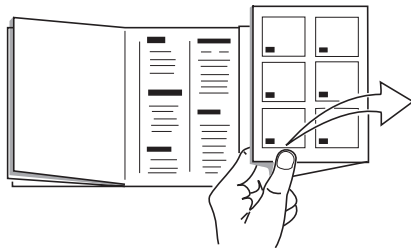


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UTENSIL and POT WASHER

**EDI 4 BT - EDI 6 - EDI 8
EDI 13 - EDI 13 ALTA**



The illustrations concerning these instructions are on the inside of the back cover



IMPORTANT

Become thoroughly familiar with the contents of this manual before installing, setting up, adjusting and servicing utensil and pot washer Mod.EDI.
Only contact an authorized technical center or IWM in the event of breakdowns or faulty machine operation.

ENG INFORMATION FOR USERS

In accordance with the Directives 2002/95/EC, 2002/96/EC and 2003/108/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and waste electrical and electronic equipment”

The “crossed out wheeled bin” symbol on the dishwasher serial number plate indicates that at the end of its useful life the product must be collected separately from other waste.

Separate collection of dishwashers that have come to the end of their useful life is organised and managed by the distributor.

Therefore, any user wanting to dispose of this equipment must contact the distributor and use the system adopted by the latter to allow separate collection of equipment which has reached the end of its useful life.

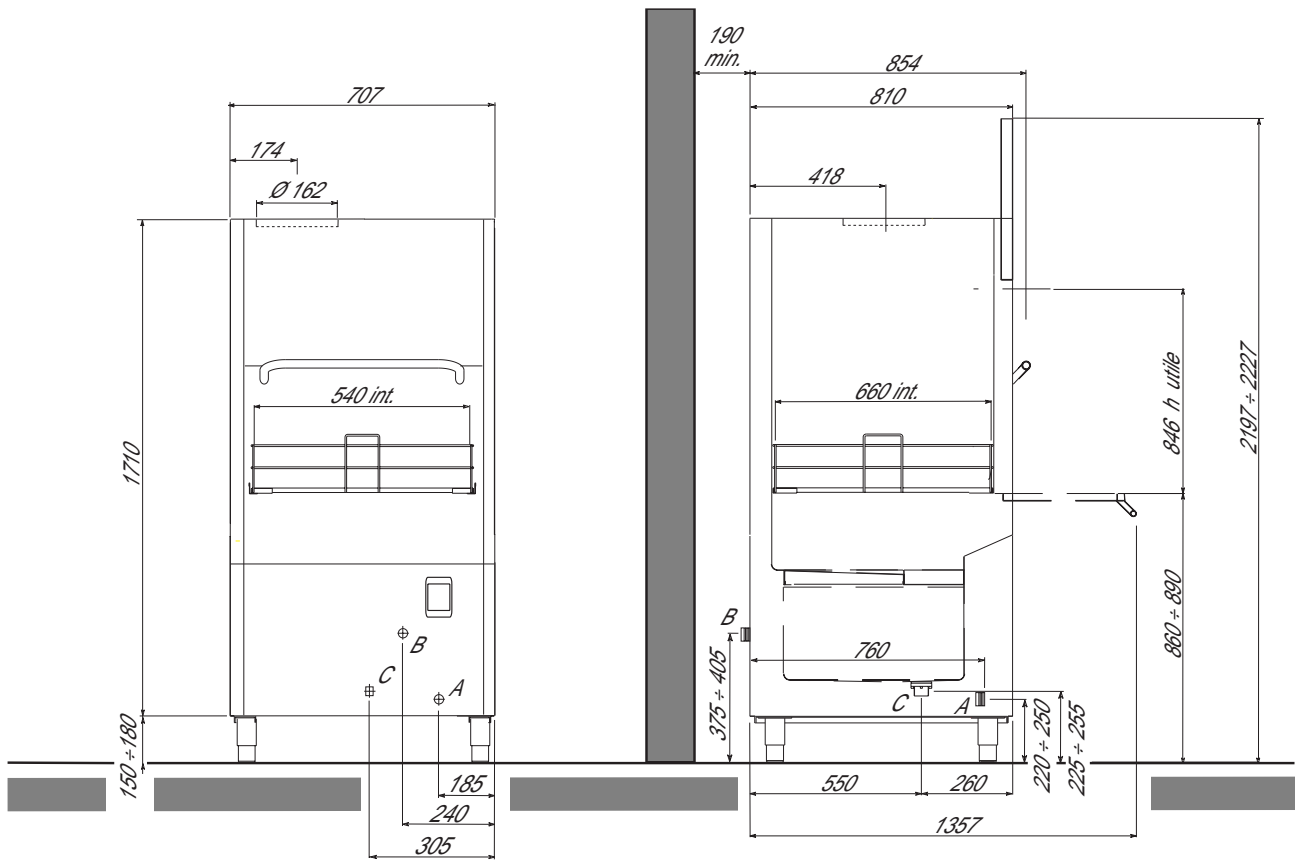
Suitable separate collection, followed by decommissioned dishwasher recycling, treatment and environmentally-sound disposal, helps to avoid possible negative effects on health and the environment and promotes re-use and/or recycling of the materials of which the equipment is made.

Owners who dispose of the product illegally will be liable to the administrative penalties envisaged by the regulations in force.

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OVERALL DIMENSIONS



A	Water inlet
B	Electric supply
C	Drain pipe fitting

TECHNICAL DATA

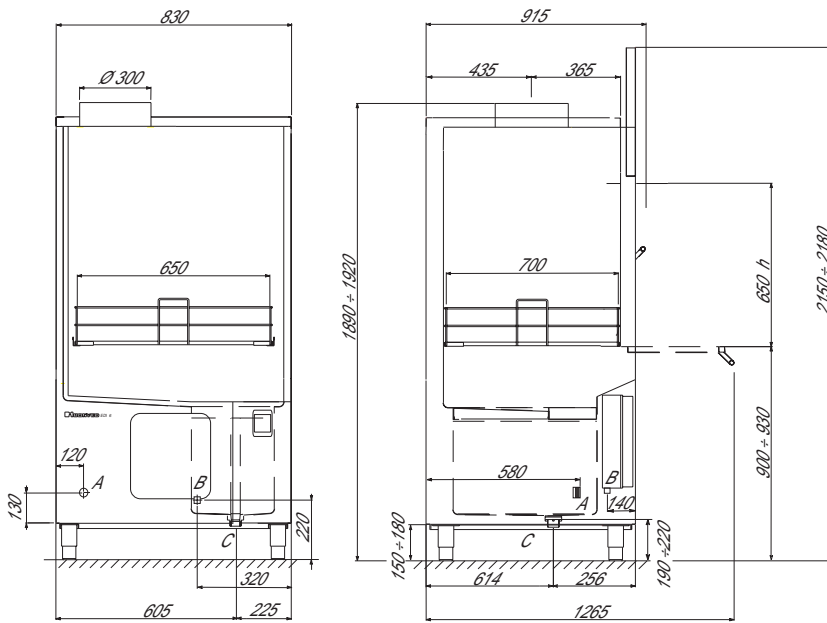
	<i>Bas.output p/h</i>	<i>Electric supply</i>	<i>Total power</i>	<i>Boiler heat.elem.</i>	<i>Tank heating el.</i>	<i>Wash pump</i>	<i>Rinse booster pump</i>
EDI 4BT	30/15/10	400V3 N~50/60Hz	7620 W	6000 W	4000W	1620 W (2,2 Hp)	200 W

	<i>Tank capacity</i>	<i>Boiler capacity</i>	<i>Cycle lenght</i>
EDI 4BT	42 l	10,5 l	Short = 120 sec. Medium = 240 sec. Long = 360 sec. Intensive= max 10 min.

	<i>Drain pipe fitting</i>	<i>Net weight</i>	<i>Gross weight</i>	<i>Mains supply of water</i>	<i>Water cons. cycle</i>	<i>Basket dimensions</i>
EDI 4BT	Ø 1 1/2 "G	200 kg	236 kg	2÷ 4 bar. Ø 3/4"G.	4,5 l	540 x 660 mm

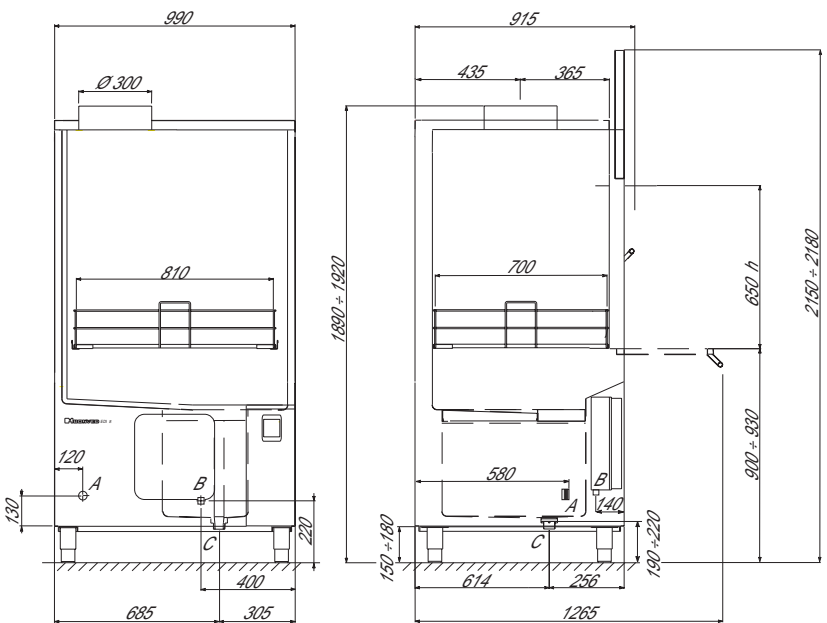
	<i>Rinse temperature</i>	<i>Water inlet max. temper.</i>	<i>Noise level</i>	<i>Envir. temper. min/max.</i>	<i>Environ. humid. min/max</i>	<i>Wash temperature</i>
EDI 4BT	80° ÷ 90° C	50° C	< 70 dB (A)	5° ÷ 40° C	20 ÷ 90 %	50° ÷ 60° C

OVERALL DIMENSIONS



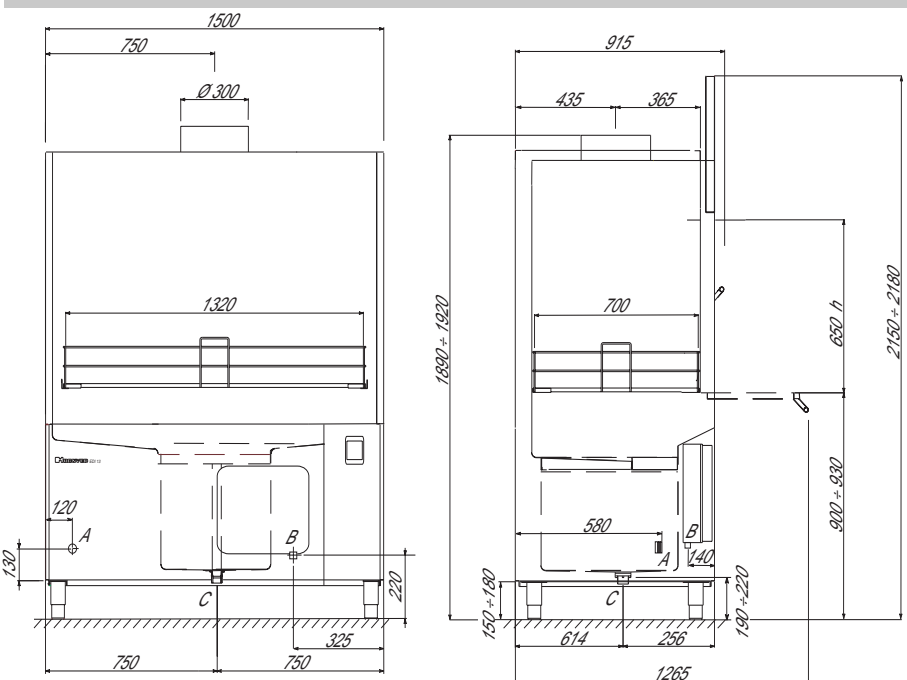
A	Water inlet
B	Electric supply
C	Drain pipe fitting

EDI 6



A	Water inlet
B	Electric supply
C	Drain pipe fitting

EDI 8



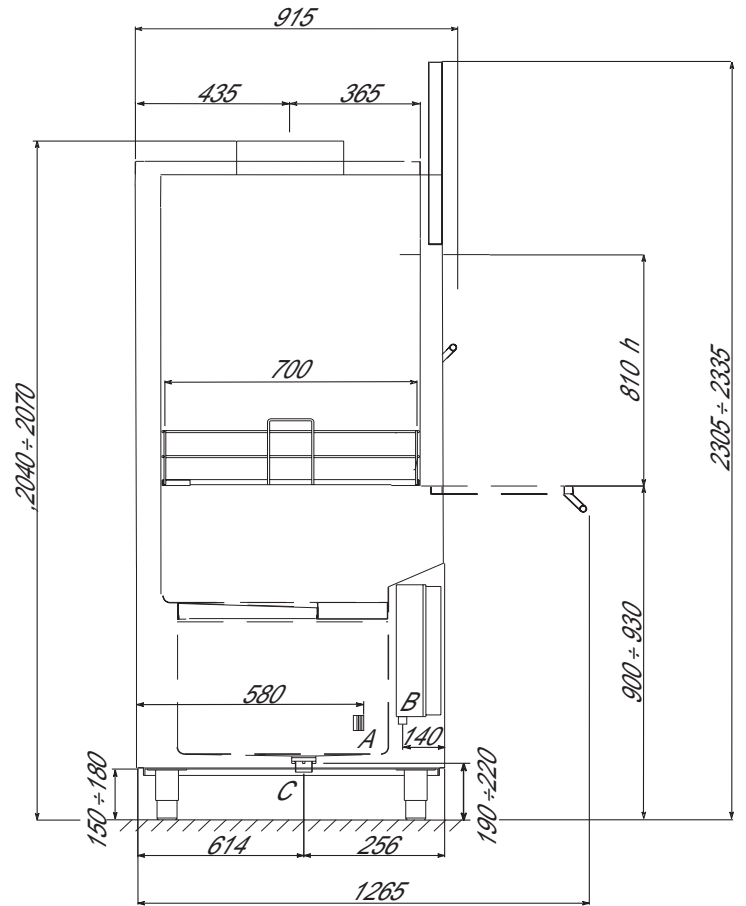
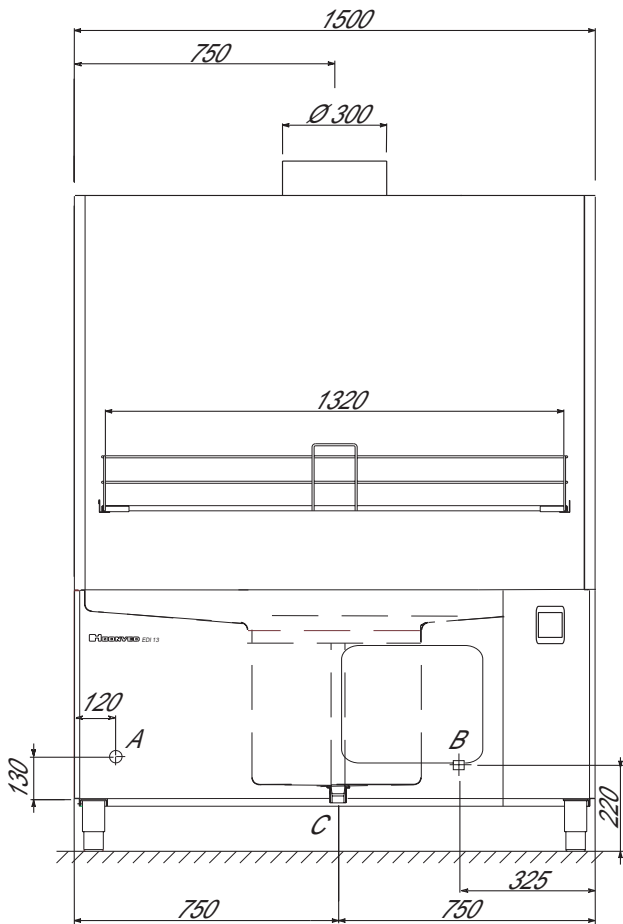
A	Water inlet
B	Electric supply
C	Drain pipe fitting

EDI 13

TECHNICAL DATA

	Rack output/hour	Electric supply	Total power	Boiler heating element	Rinse booster pump	Wash pump	
EDI 6	30	400V3 N~50/60Hz	7620 W	6000 W	-	1620W	
	30	400V3 ~50Hz	7620 W	6000 W	-	1620W	
	30	230V3~50/60Hz	7620 W	6000 W	-	1620W	
	30	208V3~60Hz	7620 W	6000 W	-	1620W	
	30	400V3 N~50/60Hz	10620 W	9000 W	-	1620W	
EDI 6	30	400V3 N~50Hz	10620 W	9000 W	550 W	1620W	
EDI 8	30	400V3 N~50Hz	11350 W	9000 W	550 W	2350W	
	30	230V3~50/60Hz	11350 W	9000 W	550 W	2350W	
		440V3 ~60Hz	11350 W	9000 W	550 W	2350W	
EDI 8	30	400V3 N~50Hz	11350 W	9000 W	550 W	2350W	
EDI 13	30	400V3 N~50/60Hz	13700 W	9000 W	550 W	2 x 2350W	
	30	230V3~50/60Hz	13700 W	9000 W	550 W	2 x 2350W	
EDI 13	30	400V3 N~50Hz	16700 W	2x 6000 W	550 W	2 x 2350W	
	Tank heating element	Tank capacity	Cycle length				
EDI 6	6000 W	82 l	Short	= 120 sec.			
EDI 8	6000 W	86 l	Medium	= 240 sec.			
EDI 13	6000 W	132 l	Long Intensive	= 360 sec. = max 10 min.			
	Boiler capacity	Mains supply of water	Drain pipe fitting	Net weight	Gross weight	T Environ. temper. min/max.	Envir. humidity min/max
EDI 6	11,5 l	2÷ 4 bar. Ø 3/4"G. Ø 1 1/2 "G	Ø 1 1/2 "G	236 kg	272 kg	5° ÷ 40° C	20 ÷ 90 %
EDI 6 BT	14,5 l	2÷ 4 bar. Ø 3/4"G. Ø 1 1/2 "G	Ø 1 1/2 "G	236 kg	272 kg	5° ÷ 40° C	20 ÷ 90 %
EDI 8	11,5 l	2÷ 4 bar. Ø 3/4"G. Ø 1 1/2 "G	Ø 1 1/2 "G	261 kg	300 kg	5° ÷ 40° C	20 ÷ 90 %
EDI 8 BT	14,5 l	2÷ 4 bar. Ø 3/4"G. Ø 1 1/2 "G	Ø 1 1/2 "G	261 kg	300 kg	5° ÷ 40° C	20 ÷ 90 %
EDI 13	11,5 l	2÷ 4 bar. Ø 3/4"G. Ø 1 1/2 "G	Ø 1 1/2 "G	340 kg	380 kg	5° ÷ 40° C	20 ÷ 90 %
EDI 13 BT	26 l	2÷ 4 bar. Ø 3/4"G. Ø 1 1/2 "G	Ø 1 1/2 "G	340 kg	380 kg	5° ÷ 40° C	20 ÷ 90 %
	Wash temperature	Rinse temper.	Noise level	Water inlet temper.	Water cons /cycle	Rack dimensions	
EDI 6	50° ÷ 60° C	80° ÷ 90° C	< 70 dB (A)	55° C	4,5 l	650x700x162 mm	
EDI 8	50° ÷ 60° C	80° ÷ 90° C	< 70 dB (A)	55° C	5 l	810x700x162 mm	
EDI 13	50° ÷ 60° C	80° ÷ 90° C	< 70 dB (A)	55° C	8 l	1320x700x162 mm	

OVERALL DIMENSIONS



A	Water inlet
B	Electric supply
C	Drain pipe fitting

EDI 13 ALTA

TECHNICAL DATA

	Rack output/hour	Electric supply	Total power	Boiler heating element	Rinse booster pump	Wash pump
EDI 13 ALTA	30	400V3 N~50Hz	13700 W	9000 W	600 W	2 x 2350 W
EDI 13 ALTA BT	30	400V3 N~50Hz	16700 W	2x6000 W	550 W	2 x 2350 W

	Tank heating element	Tank capacity	Cycle lenght
EDI 13 ALTA	6000 W	132 l	Court = 120 sec. Medium = 240 sec. Long = 360 sec. Intensive = max 10 min.
EDI 13 ALTABT	6000 W	132 l l	

	Boiler capacity	Mains supply of water	Drain pipe fitting	Net weight	Gross weight	Environ. temper. min/max.	Envir. humidity min/max
EDI 13 ALTA	11,5 l	2 ÷ 4 bar. Ø 3/4" G. Ø 1 1/2 " G		340 kg	380 kg	5° ÷ 40° C	20 ÷ 90 %
EDI 13 ALTA BT	26 l	2 ÷ 4 bar. Ø 3/4" G. Ø 1 1/2 " G		340 kg	380 kg	5° ÷ 40° C	20 ÷ 90 %

	Wash temperature	Rinse temperature	Noise level	Water inlet temper.	Water consum./cycle	Rack dimensions
EDI 13 ALTA	50° ÷ 60° C	80° ÷ 90° C	< 70 dB (A)	55° C	8 l	1320x700x162 mm
EDI 13 ALTA BT	50° ÷ 60° C	80° ÷ 90° C	< 70 dB (A)	55° C	8 l	1320x700x162 mm

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Part 1: General description and safety device

Part 2: For the Operator

**Part 3: For Authorized and Qualified
Technicians**

PARTICULAR RECOMMENDATIONS FOR THE OPERATOR

- Do not operate the machine without having become fully familiar with the contents of this manual and without having acquired a comprehensive knowledge of the specific techniques and machine controls.
- Check that the area in which the machine is to be installed is compatible with the dimensions of the machine itself before installing this latter.
- Only use lifting and handling means as are adequate to the weight of the machine when this must be installed or removed either completely or in part.
- Never allow unauthorized or unqualified personnel to start, adjust, operate or repair the machine. Always refer to this manual for the necessary operations.
- The mechanical parts and electrical/electronic components situated inside the machine are protected by entirely closed panels.
- **Always ensure that the main switch has been set to the "OFF" position** before cleaning and/or servicing the machine and before removing any guard. This will disconnect the power source during the operator's intervention.
- The electrical powering system must be equipped with an automatic release system prior to the main machine switch and with a suitable grounding system that complies with all the requisites established by industrial provisions for the prevention of accidents.
- Always disconnect the power source if work must be carried out on the main switch or in its vicinity.
- All inspections and maintenance operations requiring removal of the safety guards are carried out under the complete responsibility of the users. These operations should therefore only be carried out by specialized and authorized technical personnel.
- Check that none of the accident preventing safety devices (barriers, guards, casings, microswitches, etc.) have been tampered with and that they are all perfectly functional before operating. These devices should be repaired if this is not the case.
- **Never remove the safety devices.**
- To prevent personal risks, only use power tools that are correctly connected to the grounding tap and that conform to the national safety regulations.
- Never ever tamper with the electrical system or with any other mechanism.
- **Never ever use the hands** or unsuitable instruments to locate leaks from pipes. Air, fluids under pressure or irritants could cause serious damage to both persons and/or property.
- Never use the hands instead of adequate tools when operating the machine.
- Never use the hands or other objects to stop moving parts.
- **PAY THE UTMOST ATTENTION TO THE DATA PLATES AFFIXED TO THE MACHINE WHENEVER WORKING ON THIS OR ON THEIR NEAR VICINITY.**
- The user is obliged to keep all the data plates and stickers in a legible condition.
- It is essential for the user to replace all data plates and stickers as may have deteriorated for any reason or as are not clearly visible, ordering new ones from the Spares Service of **IWM.**
- Contact the person in charge of maintenance in the event of malfunctions or damage to the machine components without proceeding with further repairs.
- It is absolutely forbidden for anyone to use the machine for purposes other than those explicitly established and documented. The machine must always be used in the ways, times and places established by common sense, the laws in force in each nation, even when there are no specific provisions to govern the sector in the specific country of use.
- **IWM declines all responsibility for accidents or damage to either persons or property as may arise following failure to comply with either the relative safety provisions or the instructions herein.**
- **These instructions, together with the provisions governing machine installation and electrical connections form an integral part of the Accident Preventing Industrial regulations in force in each individual country.**
- **THESE SAFETY PROVISIONS INTEGRATE AND DO NOT SUBSTITUTE THE SAFETY PROVISIONS LOCALLY IN FORCE.**
- **NEVER ever make hurried or inaccurate repairs as could jeopardize the correct operation of the machine.**
- **ALWAYS ASK FOR HELP FROM SPECIALIZED PERSONNEL IN CASE OF DOUBT.**
- **ANY TAMPERING BY THE USER RELIEVES THE MANUFACTURER FROM ALL LIABILITY, THE USER BEING IN THIS CASE SOLELY RESPONSIBLE TOWARDS THE COMPETENT ACCIDENT PREVENTION AUTHORITIES.**

1.1 GENERAL DESCRIPTION

The Utensil washer of the EDI second series give an excellent idea of the know-how achieved by IWM in the field of machines for catering sector.

Complete range of machines : 5 size models studied to satisfy all room and washing needs, destined to Confectionary , Bakery, Butchery , Ice-shop, Catering and Food Industries.

They assure a "top quality hygiene" thanks to the inside corners so built to allow easy cleaning.

Wide filtering system, easy cleaning through movable cover-tank and box filters.

Powerful pumps washing , auto-cleaning washing nozzles, washing zone completely covered.

The machine can be equipped with panels for acoustic and thermic isolation.

The electronic controls, with touch-panel commands and a display giving machine temperature and status readings, make use easy. Compatible with the HACCP hygiene control system, this machine is in line with the most rigorous hygiene standards.

1.2 TYPE OF USE AND IMPROPER USE

These machines have been designed and built to wash object in special baskets and using detergent and rinsing agent.

- Use of specific detergents and rinsing agents for industrial purposes normally available in the shops is permitted.



ATTENTION

Any improper use of the machine relieves the manufacturer from all and every responsibility for accidents or damage to persons and property, also voiding all conditions of guarantee.

1.3 TRANSPORT, SHIPMENT AND STORAGE (Fig. 2)

- The machine is normally shipped in a cardboard box closed by straps.
- When transporting the packed machine, use a lift truck or transpallet, positioning the box on the relative forks.



ATTENTION

The machine must be sheltered from the weather when shipped and stored.



ATTENTION

Before installing the machine, control the rotation way of the motor (Fig. 5 B).

1.4 INSPECTIONS ON ARRIVAL

When the machine arrives, check that the packaging is in a perfect condition and that there is no visible damage. If everything is in order, remove the packaging (unless other instructions have been received from the manufacturer) and check that the machine is free from damage caused by transport.

Now check whether there has been any damage to the structure, crushing or breakages.

If damage or imperfections are discovered:

- 1 - Immediately notify the haulage contractor both by phone and in writing by registered letter with return receipt attached;
- 2 - Inform the manufacturer by registered letter (with return receipt attached).



IMPORTANT

Notification of damage or faults must be immediate, in any case **within 3 days** from the date on which the machine is received.

1.5 UNPACKING (Figs 2-3)

Proceed in the following way in order to remove the packing:

1. Cut the straps (9) that hold the cardboard in place.
2. Remove the box (10) by lifting it upwards.
3. Remove the protective film from the machine.
4. Remove the machine from the base by lifting it from the lower part of the casing.
5. All packing must be collected and not left within children's reach since it could become a source of danger. The packing can be disposed of in the same way as solid urban waste.

Lift the machine by raising the lower part of the casing using a lift truck or transpallet.

1.6 MACHINE IDENTIFICATION (Fig. 4)

- The serial number and machine data are stamped on the data plate (11) affixed to the rear part of the machine itself.



IMPORTANT

Always state the model and serial number of the machine when requesting technical assistance or ordering spare parts.

1.7 DESCRIPTION OF THE SAFETY DEVICES

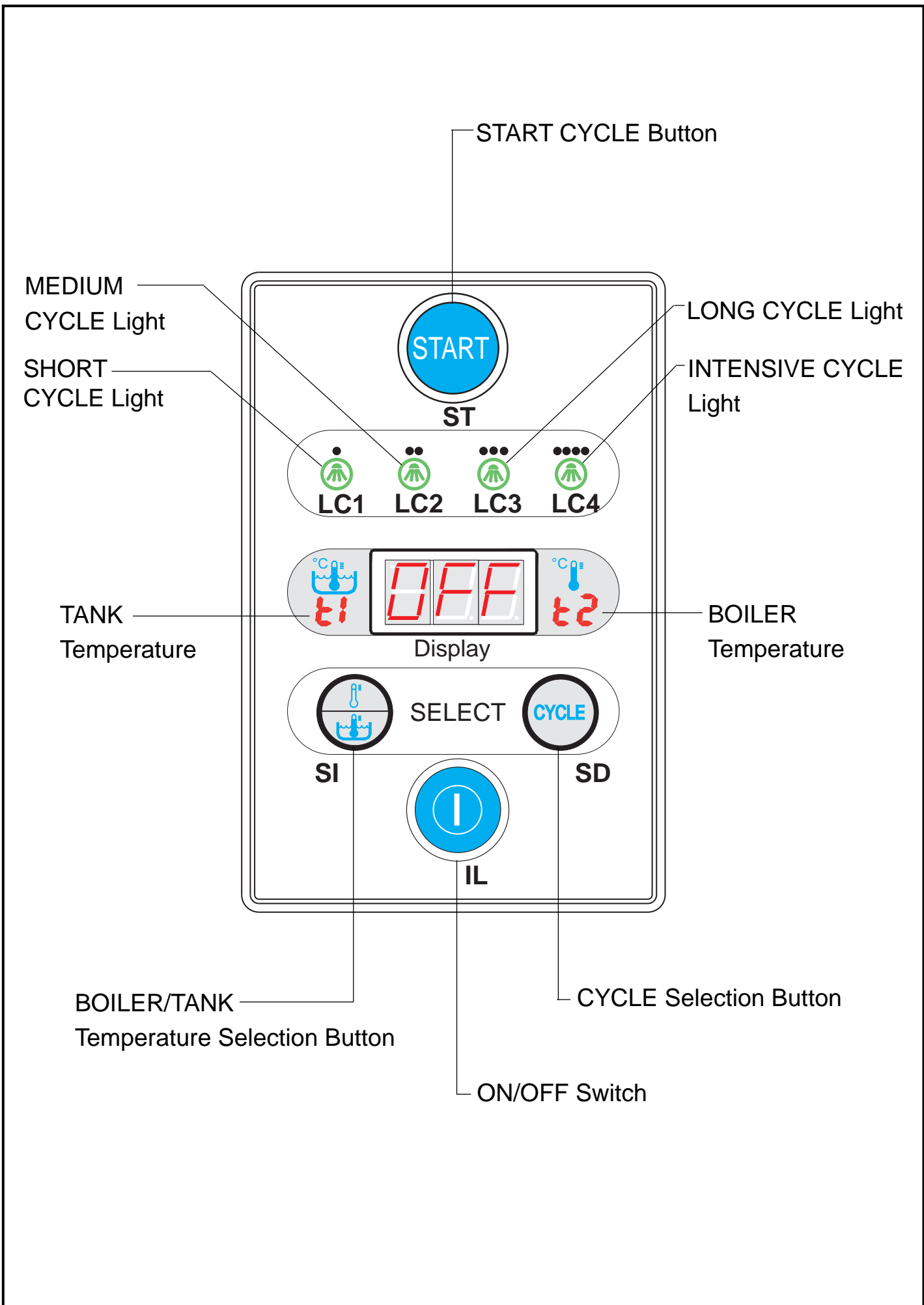
- Models **EDI** are equipped with a safety microswitch that blocks the washing pump if the tub access door is accidentally opened, and of other electronic safety devices.
- Control panel at low tension 12 V
- Control protection against water jets
- Perfectly counterbalanced double door according to the most strict safety laws
- Double wall silent construction , insulated type under request
- The machine is fitted with an equipotential ground conductor .
- Safety overflow (13 Fig.5) to prevent water from spilling.

1.8 REFERENCE STANDARD

- The machine and its safety devices has been built in compliance with the following standards:
- Essential safety requisites pursuant to Directive 73/23 EEC Annex 1 modified by Directive 93/68 EEC, Directive 89/336 CEE, 89/392/CEE, 92/368/CEE,93/68/CEE.
- Essential requisites established by Directive 2002/95/EEC (RoHS).

**PART for the
OPERATOR**

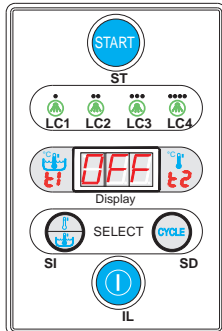
CONTROL PANEL



2.1 EDI WASHING PHASES

2.1.a Machine OFF

When the machine is switched OFF the display will read "OFF":



2.1.b Switching on and preparing the machine

To switch the machine on, press the "IL" button. The LED representing the last cycle selected will FLASH (LC1 - LC2 - LC3 - LC4).



When switching on for the first time, the LC2 light will FLASH.

First the boiler then the tank will begin to fill automatically.

While the machine is filling up the display will read "F2".



Once filled, the water-heating elements will be activated, first in the boiler then in the tank. The display will give the tank temperature;



It is advisable, when first switching on, to wait until the display reads 55°C.

WASHING OPERATION

If not equipped with an automatic dosing system, pour into the tank a quantity of detergent suitable for the volume and hardness of the water. For quantities, refer to the specific instructions for the detergent in use.



When items to be washed are encrusted with burnt-on matter, or a long time has passed between use and washing, it is essential to carry out a pre-wash soak using a suitable softening agent.

The use of hand-washing products is to be avoided as they could produce foam inside the machine.

Place the basket of items to be washed inside the machine, having first removed any solid waste.

2.1.c Cycle selection

Press the "SD" or CYCLE button to select the washing cycle required from the 4 different cycles available (SHORT, MEDIUM, LONG, INTENSIVE) and specifically:

- LC 1: SHORT CYCLE = 120 sec.
- LC 2: MEDIUM CYCLE = 240 sec.
- LC 3: LONG CYCLE = 360 sec.
- LC 4: INTENSIVE CYCLE = max 10 min.

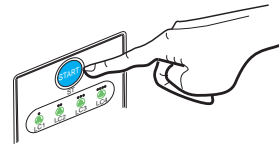
During the INTENSIVE cycle it is in any case possible to stop the cycle before the end of the programmed time for LC4 by pressing the START "ST" button again.

The minimum time for the INTENSIVE cycle will always and in all cases be 120 sec

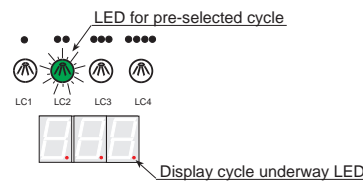
2.1.d STARTING UP THE WASHING CYCLE

2.1.d.1 STARTING UP THE WASHING CYCLE MANUALLY

To start up the cycle MANUALLY, press and hold the START "ST" button for approx. 2 sec.



The LEDs of the display will light on in sequence and the message shown on the display will blink (indicating that the cycle is underway) at the LED for the selected cycle will FLASH (e.g., LC2);



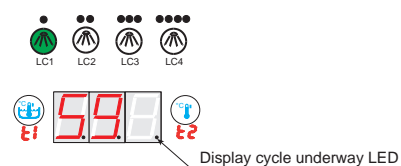
2.1.d.2 STARTING UP THE WASHING CYCLE AUTOMATICALLY

To start up the cycle AUTOMATICALLY (by opening and closing the door), you will need to change the cycle start-up mode. Press and hold the START "ST" button until the pre-selected cycle LED remains CONSTANTLY LIT (approx. 5 sec.) and the washing cycle will then start up AUTOMATICALLY when the door is closed.

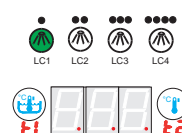
2.1.e Instructions during the washing cycle

2.1.e.1 Display information

1) During washing, the tank temperature is indicated and the display LEDs light up in sequence.



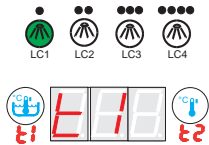
2) During drip-drying, only the display LEDs light up.



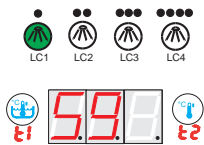
2.1.h Reading the TEMPERATURES

At any time, with the machine switched ON or OFF, by pressing the "SI" button you can read, in sequence, the REAL and PROGRAMMED temperatures for the water in the tank (t1) and in the boiler (t2).

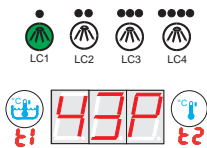
- Pressing the "SI" button once, the message "t1" will be displayed



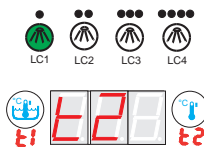
- Pressing the "SI" button a second time, the REAL temperature of the water in the tank will be displayed;



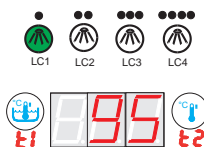
- Pressing the "SI" button a third time, the PROGRAMMED temperature of the water in the tank (for the selected cycle) will be displayed;



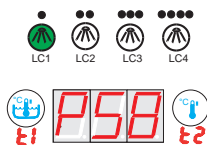
- Pressing the "SI" button a fourth time, the message "t2" will be displayed, indicating the boiler;



- Pressing the "SI" button a fifth time, the REAL temperature of the water in the boiler will be displayed;



- Pressing the "SI" button a sixth time, the PROGRAMMED temperature of the water in the boiler (for the selected cycle) will be displayed;



- Pressing the "SI" button a seventh time, the machine will return to its initial status.



ATTENZIONE

The operations listed above CANNOT BE CARRIED OUT DURING A CYCLE.

2.1.i Switching off the EDI washer at the end of the day

At the end of the working day SWITCH OFF the EDI washer by pressing the "IL" button.

Switch off the mains switch feeding the machine and close the water supply taps.

For any repairs, contact only assistance centres authorised by the manufacturer.

Break Tank System - EDI "BT"

The "Break tank BT" system for professional washing machines

assures steady temperature and pressure during the rinse phase.

A rinse booster pump placed after the boiler assures the rinse, for the whole duration of the phase, at constant pressure and temperature.

At the end of the cycle the boiler is newly filled.

Benefits of the BREAK TANK SYSTEM:

1. rinsing at constant pressure and temperature
2. washing cycle in absence of water
3. the machine is totally independent from the water supply, thus furthermore preventing any contamination of the water in the mains due to backflows from the machine.

WARNINGS DURING OPERATION

- 1) Ensure that the washing temperature remains at approx. 55-60°C;
- 2) Avoid immersing bare hands in the detergent-filled water; if this should happen, rinse immediately and thoroughly with running water;
- 3) Use only anti-foaming detergents with chlorine-active agents, specific for use in industrial machines;
- 4) Deactivate the machine in case of break-down or malfunction.

For any repairs, contact only assistance centres authorised by the manufacturer, and insist on the use of original parts.

- 5) In no case should you change the programmed temperatures (t1 and t2) without first consulting an authorised assistance centre;

Failure to follow the above warnings may compromise the safety of the washing machine.

Useful advice for better washing results

Any unsatisfactory results from washing can be seen when traces of dirt are left on dishes or other items; any water marks may be caused by insufficient rinsing. In this case, ensure that the rinsing nozzles (22) are clean and that there is pressure in the water system.

If there are traces of waste, ensure that:

- The filters (19) (25) are clean;
- the water temperature is around 60°C;
- items are correctly positioned in the basket;
- the washing nozzles are clean;
- the wash arms (20) (21) rotate freely.

2.2. CLEANING (Fig. 9)

2.2.a General information

Strict compliance with the maintenance instructions in this section will keep your machine in a good working condition and will notably reduce the need for repairs.



If any machine component becomes faulty, **FIRST CHECK** that all the instructions given in the previous paragraphs have been complied with during use.

Repairs must be carried out immediately, as soon as the fault occurs. This will prevent the trouble from becoming worse and damaging other parts.

2.2.b Daily cleaning (Fig. 5/6)



Daily operations to carry out when work has ended, with the machine off, the main circuit-breaker disconnected, the water cocks off and the wash tank empty.

1. Lift the overflow pipe (13) to completely drain the water from the tank.
2. Remove the filters (19) on top of the tank.
3. Thoroughly clean the inside parts of the machine.
4. Remove the pump safety filter (25).
5. Wash the filters under running water and fit them correctly back in their housings.



Never use corrosive or acid cleaning products, wire wool or steel brushes since these could damage the machine.

2.3 PREVENTION MAINTENANCE (Fig. 6)



The preventive maintenance operations must be carried out with the machine off, the main circuit-breaker disconnected, the water supply cocks off and the wash tank empty.

2.3.a Checking and cleaning the spray arms and nozzles (Fig. 6)

Periodically check to make sure that the wash arms (20), the rinse arms (21) and the relative nozzles are not clogged.

Cleaning the unit:

1. Unscrew the ring nut (23) and lift the spray arms (20) and (21).
2. Wash the washing and rinsing arms.
Clean the nozzles (22) if they are clogged and then fit the parts exactly back in their original positions.
3. Remount all parts by complying with the above instructions in reverse.

2.4 DESCALING

Where hard water is present lime scale deposits will form in the machine and on dishes, which must, for reasons of hygiene, be removed by descaling.

Advice on operation procedures and frequency for this treatment are generally given by the detergent supplier, who can provide suitable products.

In order to avoid damaging the machine, do not exceed recommended doses, follow the detergent producer's directions scrupulously and, having finished operations, rinse thoroughly

2.5 TEMPORARY STOPPAGE

If the machine is to be left inactive for a period of some weeks, it is advisable beforehand to load the tank and run a few empty cycles with clean water then drain, so as to avoid the formation of unpleasant odours.

If necessary, repeat the process several times until the water is still clean after washing.

If the stoppage is to be very long, it is advisable to drain the water from the boiler and from the electric pump.

2.6 DEMOLITION and DISPOSAL.



When the machine is to be scrapped, drain the water from the tank and from the boiler, as indicated in the points above, and disconnect the machine from the water and electricity supply networks, then dispose of the components according to current regulations, respecting national and local ecological and environmental legislation, and taking care to separate the parts as follows:

- metallic parts: body work, surfaces, panels, filters;
- electrical parts: motors, remote switches, micro-switches, cabling;
- plastic parts: connectors, baskets;
- rubber parts: tubes, couplings

The producer declines all responsibility for any printing errors contained in this booklet.

The instructions, drawings, tables and everything else in this manual are of a confidential technical nature. For this reason, none of the information may be either completely or partially duplicated or disclosed to third parties without prior written authorization from IWM which is the sole proprietor and which reserves the right to make any modifications as may be considered necessary without advance warning.


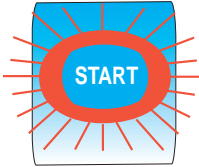

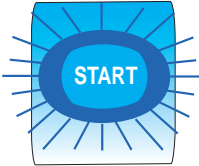
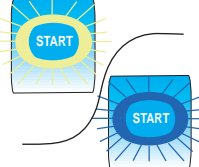

SUMMARY TABLE of ALARM MESSAGES DISPLAYED

MESSAGE	DESCRIPTION
A 1	Failure to COMPLETE CYCLE
A 2	BOILER WATER overheating
A 3	BOILER and/or TANK TEMPERATURE PROBE broken or disconnected
A 4	Lack of WATER in TANK
A 5	BOILER failing to heat
H 1	RINSING WATER insufficient temperature
H 3	WASHING WATER insufficient temperature

SUMMARY TABLE of OTHER MESSAGES DISPLAYED

MESSAGE	DESCRIPTION
F 1	DOOR OPEN
F 2	WATER FILLING in TANK
C 1	SELF WASHING and DRAINING cycle
C 2	MANUAL DRAINING cycle
OFF	Machine SWITCHED OFF
Pro	PROGRAMMING
PSst	RESET and RETURN to STANDARD PARAMET.

SUMMARY TABLE of START BUTTON (S3)

MACHINE STATUS	START BUTTON (S3)
Machine OFF	OFF 
Preparing the machine	RED (light up) 
Machine on line but STAND/BY	GREEN (light up) 
CYCLE	DARK BLUE (light up) 
ALARM with Cycle in progress (only A2/A3)	PALE GREEN/BLUE (alternating flashing) 
ALARM with NO CYCLE ON (only A2/A3)	PALE GREEN (flashing) 

TROUBLESHOOTING

PROBLEMS	CAUSES	SOLUTIONS
<p>The machine fails to turn on. The machine does not fill with water.</p>	<p>Main switch disconnected. Water cock shut. Dirty fill pipe filter. Rinsing nozzle clogged.</p> <p>Overflow pipe not well connected. ALARM A4: Lack of water in tank MESSAGE F1: Door Open</p>	<p>Turn on the switch. Turn on the clock. Detach the fill pipe (16 Fig. 5) and clean the filter. Unscrew and clean the nozzles (22 Fig. 6) under running water. Check the right con. of the overflow pipe (13 Fig. 5) Check presence of water in system; Switch machine off and back on Check that the door is perfectly closed and/or the machine is properly levelled</p>
<p>Insufficient washing.</p>	<p>Wrong pump rotation direction.</p> <p>Clogged washing nozzles. Dirty washing filter. Clogged washing blade. No detergent.</p> <p>ALARM H3: Insufficient wash temperature ALARM A3: Probe disconnected or interrupted Insufficient washing conditions.</p>	<p>Call the technician to reverse 2 of the 3 wires on the main switch. Clean the washing blade (20 Fig. 6). Clean the filters (19 e 25 Fig. 6). Remove and clean the balde (20 Fig. 6) Add detergent and fill the dispenser.</p> <p>Wait for tank to reach correct temperature</p> <p>Contact Assistance Centre</p> <p>Check the correct washing phase.</p>
<p>Insufficient rinse.</p>	<p>Clogged rinsing nozzles.</p> <p>Clogged boiler by limestone. Low main pressure (less than 2 bar. - 200 Kpa). Insufficient temperature. Bad location of the nozzles or damaged nozzles. ALARM H1: Insufficient rinse temperature ALARM A3: Probe disconnected or interrupted ALARM A5: Boiler heating failure</p>	<p>Unscrew and clean the nozzles (22 Fig. 6) under running water. Call after-sales service. Wait pressure recovery or purchase a new pressure pump. Call after-sales service. Check the right location of the nozzles and replace damaged ones. Wait for boiler to reach correct temperature</p> <p>Contact Assistance Centre.</p> <p>Contact Assistance Centre.</p>

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**For Authorized and
Qualified
Technicians**

 **IMPORTANT**

Every operation of installation, electrical or hydraulic connection, programming, maintenance etc...has to be carried out by QUALIFIED personnel, authorised by the manufacturer; any interventions carried out by UNQUALIFIED personnel, may compromise the technician's own safety, as well as the safety of other personnel (operators, etc.) or of any other equipment connected to the washing machine.

The manufacturer declines all responsibility for accidents or damage to persons or property caused by failure to comply with the above listed provisions.

3.1 INSTALLATION (Fig. 5)

- After having removed the packing, check that the machine is in a perfect condition and that all the parts have been included.
- Position the machine in the required setting and level it by means of the feet (17).

 **IMPORTANT**

To have a correct opening/closing of the tank door it is necessary to assure a perfect sliding of the upper and lower door lining up them with the body of the machine (Fig.5 - letter A). You make the line-up adjusting the feet (17)

3.1.a Drain pipe connection (Fig. 5)

- Connect one end of the drain pipe to the overflow (12) and the other to an already prepared drain trap.

 **IMPORTANT**

It is essential to ensure that the drain pipe runs along the floor and that it is not throttled in any part.

3.1.b Connection to the water main (Fig. 5)

- Connect one end of the supplied inlet pipe (16) to the solenoid valve (18) and the other end (16) to a 3/4" G threaded cock, installing the filter in between.

 **ATTENTION** 

It is essential to connect the cold water delivery pipe to a throttle cock in order to separate the water main from the machine itself. Also check that there are no sharp bends.

If there is sand in the water main, it will be necessary to install a filter between the water main and the machine. If the water main is without, it is advisable to install a decalcifier prior to the machine with a setting of min. 4 and max. 8 French degrees.

The manufacturer declines all responsibility for damage to the machines caused by failure to comply with the above listed provisions.

3.1.c Electrical connection (Fig. 5)

 **DANGER** 

- Before connecting to the electricity main, always check that the data pertaining to the power source correspond to those indicated on the identification plate (11 Fig. 4) and that the main electric power switch installed prior to the machine is disconnected "0" OFF.

- An appropriately sized omnipolar circuit-breaker with a minimum 3 mm gap between its contacts must be installed between the power supply main and the machine.
- The manufacturer declines all responsibility for accidents or damage to persons or property caused by failure to comply with the above listed provisions.
- Connect the electrical power cable (14) to the main switch installed prior to the machine.
- Connect the equipotential ground conductor to the terminal .
- The electrical power cable(not supplied) must have the following characteristics: **Type H07RN-F 5G6.**

3.2 Viewing and Setting PARAMETERS (MACHINE PRESET)

There are three types of parameters that can be set:

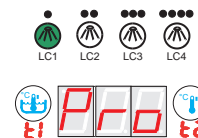
P function settings
(valid for all cycles)

T temperature settings
(for each single cycle)

L wash-cycle length settings
(for each single cycle)

To access the SETTINGS function with the machine SWITCHED OFF:

Press and hold the START "ST" button for 10 sec., until the message "Pro" appears on the display, and the selected LED begins to flash.



Using the "SD" or CYCLE button, select the cycle to be programmed (as indicated by FLASHING LED).

 **ATTENTION** 

From this position it is possible to access SETTINGS for PARAMETERS in SEQUENCE.

 **IMPORTANT**

If you do not press any pushbutton within 10 sec., automatically you get out of the programming and the writing "OFF" appears on the display.

Part 3: For the technician

3.2.a Altering PARAMETERS "P"

From within "Pro" settings, press the START "ST" button; the message "P1" will be displayed



To confirm parameters in sequence "P" (P1 - P2 - P3 - P4) press the "ST" button.

Now press the "SD" or CYCLE button to decrease and/or the "SI" button to increase the parameter status (0-1). (See table STANDARD SETTINGS PARAMETERS "P")

To exit settings, simply refrain from pressing any buttons for at least 10 sec.

STANDARD SETTING PARAMETERS "P"

PARAMETER	FUNCTION 0	FUNCTION 1	PRESET STATUS
P1	Filling hot water (40+50°C)	Filling cold water	0
P2	Not used	With pre-rinse	1
* P3	Alternating heating (first boiler than tank)	Simultaneous heating (tank & boiler)	0
P4	1 wash pump	2 wash pumps	1
P5	Wait for boiler to heat NOT ACTIVE	Wait for boiler to heat ACTIVE	1
P6	Cycle START tank temp. reached (preset) NOT ACTIVE	Cycle START tank temp. reached (preset) ACTIVE	0
P7	Not used		0



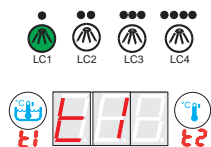
With P1=1: filling and heating of water in the tank is carried out alternately, with pre-heated water from the boiler, until the water level in the tank is reached.

***With P3=1: check fuse values (A).**

3.2.b Altering PARAMETERS "T" and "L"

Press START "ST" to view programmed temperature.

The message "t1" will appear on the display, indicating the temperature set for the water in the tank (for the selected cycle).



Now press the "SD" or CYCLE button to decrease and/or the "SI" button to increase the temperature/time settings.

(See table STANDARD SETTINGS PARAMETERS "T" and "L")

To confirm parameters and move on to the following settings (in sequence L1 - L2 - L3 - L4 - L5) press the "ST" button again.

To exit settings, simply refrain from pressing any buttons for at least 10 sec.

STANDARD SETTING PARAMETERS "T" and "L"

PARAMETER	FUNCTION	SHORT CYCLE LC1	MEDIUM CYCLE LC2	LONG CYCLE LC3	INTENSIVE CYCLE LC4
T1	Tank temperature	55°C	55°C	55°C	55°C
T2	Boiler entry temperat.	85°C	85°C	85°C	85°C
L1	Wash time	90 sec.	210 sec.	330 sec.	575 sec.
L2	Pause time	10 sec.	10 sec.	10 sec.	10 sec.
L3	Not present	0 sec.	0 sec.	0 sec.	0 sec.
L4	Rinse time	20 sec.	20 sec.	20 sec.	20 sec.
L5	Time of detergent dispenser	20 sec.	20 sec.	20 sec.	20 sec.

3.2.c STANDARD Parameter Settings

With the machine switched off, press the "SI" button for 10 sec.; all parameters (P-T-L) are automatically set as in the tables.

The message "PSt" will appear on the display, confirming that the settings have been programmed.



DYSPLAY ALARMS and SIGNALS : SELF-DIAGNOSIS

when more than one alarm is detected simultaneously, the relative codes will appear on the display in the following order of priority:

1. H1-H3
2. A1-A2-A3-A4-A5
3. F1-F2

The alarm and active function codes shown on the display when the machine is in operation are:

- A1: FAILURE TO COMPLETE CYCLE

This alarm message appears when the machine is switched back on after being switched off using "IL".



- A2 : BOILER OVERHEATING

This alarm message appears when the temperature in the boiler exceeds 105°C;
(the cycle underway will be completed).



- A 3: TEMPERATURE PROBE DISCONNECTED

This alarm message appears if either or both of the probe contacts are disconnected (or if the probe is interrupted);
(the cycle underway will be completed).



- **A 4: LACK OF WATER IN TANK**

This alarm message appears if a lack of water is detected in the tank or if tank level is not reached within 30 min.;

In this case, switch the machine OFF and ON again.



- **A 5: BOILER FAILING TO HEAT**

This alarm message appears if the boiler fails to heat within 30 minutes.



- **H 1: RINSING WATER TEMPERATURE**

This alarm message appears if, during the wash cycle, the rinsing phase takes place with a boiler temperature at least 15°C below the level set.



- **H3 : WASHING WATER TEMPERATURE (TANK)**

This alarm message appears if, during the wash cycle, the washing phase takes place with a tank temperature at least 10°C below the level set; **(the cycle underway will be completed).**



- **F1 : DOOR OPEN**

This alarm message appears if the door is open.



- **F2 : INITIAL FILL-UP**

This alarm message appears when the machine is filling up with water.



- **C1 : SELF WASHING and DRAINING CYCLE**



- **C2 : MANUAL DRAINING CYCLE**

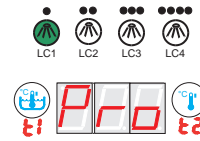


(only for machines with a draining pump)

- **OFF: MACHINE SWITCHED OFF**



- **Pro : PROGRAMMING PARAMETERS**



- **PSt : "PRESET" PARAMETERS**



3.3 DETERGENT DISPENSER (Optional)

The machine is equipped with an automatic detergent dispenser.

- Insert the supply tube into the cannister.



ATTENTION

Always wash the hands under running water if they come into contact with detergent, or comply with the specific indications pertaining to the utilized type of detergent.

- The detergent inlet is automatic at every water fill-in in the tank.

To adjust the dispenser, refer to the relative enclosed manual and to the utilized type of detergent.

To connect the detergent pump, use the specific terminals inserted in the electrical system, marked "DD".

3.4 FILLING THE RINSING AGENT DISPENSER

- Insert the tube into the cannister containing rinsing agent. (Refer to the specific instructions given with the rinsing agent itself).
- Start the machine as described in paragraph 2.1. The dispenser will suck about 3 cm of liquid from the cannister.
- Fill during the cycle by opening (slightly) and closing the door until the tube has completely filled.

3.4.a Adjusting the dose

- Start the machine as described in paragraph 2.1 and hold a glass up to the light at the end of the cycle.
- The drops of water on the glass will indicate insufficient dosage while, the streaking or spotting will indicate, instead, an excessive dosage.
- Regulate by means of the plug, turning clockwise to decrease the quantity or anticlockwise to increase it.



IMPORTANT

These data are indicative and not binding since they may vary according to the hardness of the water or the utilized type of detergent and rinsing agent.



ATTENTION

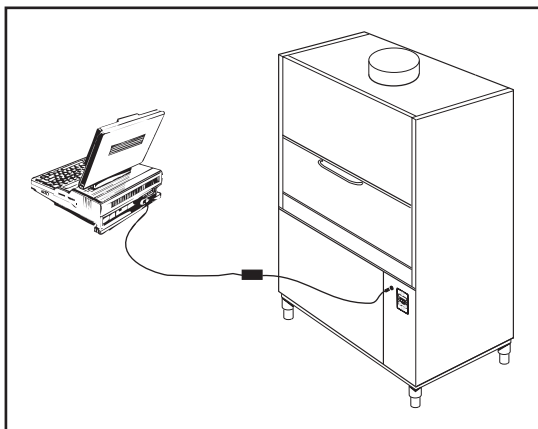
If the utilized product (detergent or rinsing agent) is changed, it is advisable to flush out the dosing system with water and to then proceed by filling the dispensers.

3.3. HACCP -data transfer (optional)

The machine is arranged for the transmission and the saving of all the HACCP hygiene control system sensitive data.

The data are sent to a device fitted with a serial connection, PC (desktop or laptop) through the connection cables supplied.

Should the PC not be fitted with a serial port, please use the supplied USB-RS232 connection cable and install the supplied software (see paragraph 3.3.d).



3.3.a Setting of the data transmission mode on the utensil washer's control panel

Select the transmission mode with the machine turned ON and with tank full of water (the door can be open or closed) by pressing the “SI” button until the display shows “Pr 0”. Now press the “SI” button in order to increase the parameter status (0 -> 1 -> 2).

The manufacturer's standard parameter is Pr 1.

Meaning of the parameters

Pr 0 = no transmission;

Pr 1 = DATA and ALARMS transmission;

Pr 2 = ALARMS only transmission.

Press “ST” (START) to confirm the selected parameter.

The machine is now enabled for the transmission of data and alarms.

For leaving the programming mode, it is enough not to press any button for at least 10 seconds.



WARNING

Each time the machine is subject to a re-set “PSt” (see paragraph 3.2.c) the parameter is set back to “1”.

3.3.b Installing the data transfer program on a P.C.

System requirements:

- Pentium II 233 MHz 64 Mb RAM;
- Operating system: Win '98, Win 2000, Win XP ;
- CD-ROM driver.

Installing the software:

Use the supplied CD-ROM to install the HACCP-data transfer software.

Before starting to install the software, re-start the computer, and make sure that no application is running.

- Insert the CD-ROM in the CD-ROM driver;
- The “IWMwizard” program will be automatically launched (**Autoplay**);
- Follow the installation instructions step by step..

If the program does not start, act as follows:

- Insert the CD-ROM in the CD-ROM driver;
- From the **START** menu, select **Execute** and digit **D:\install** (or **X:\install** where **X** identifies the CD-ROM driver).

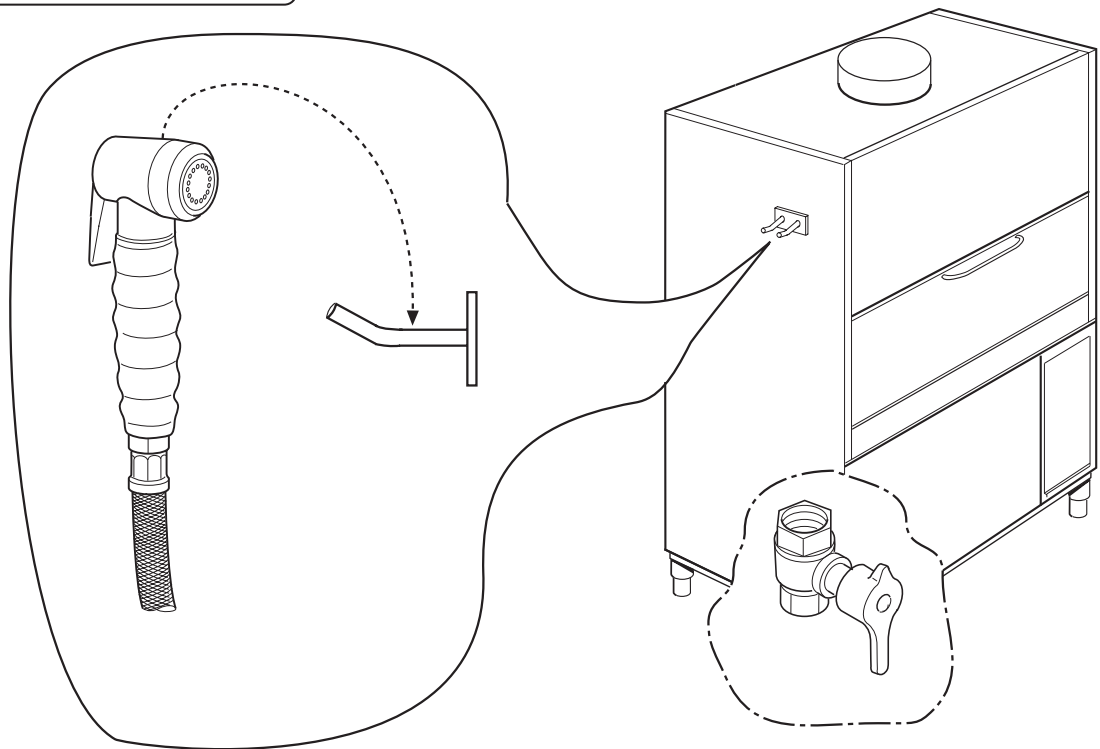
After installing the program, choose “IWMwizard” from the group IWMwizard under START\PROGRAMS in order to run the program.

3.3.c Setting of the communication port between PC IWMwizard software

To allow the communication between PC and “IWMwizard” data transfer program, it is necessary to make the communication port (DEVICE MANAGER—>COMMUNICATION PORTS) match the one designated for the program “IWMwizard” (settings or Communication Setup button).

External shower

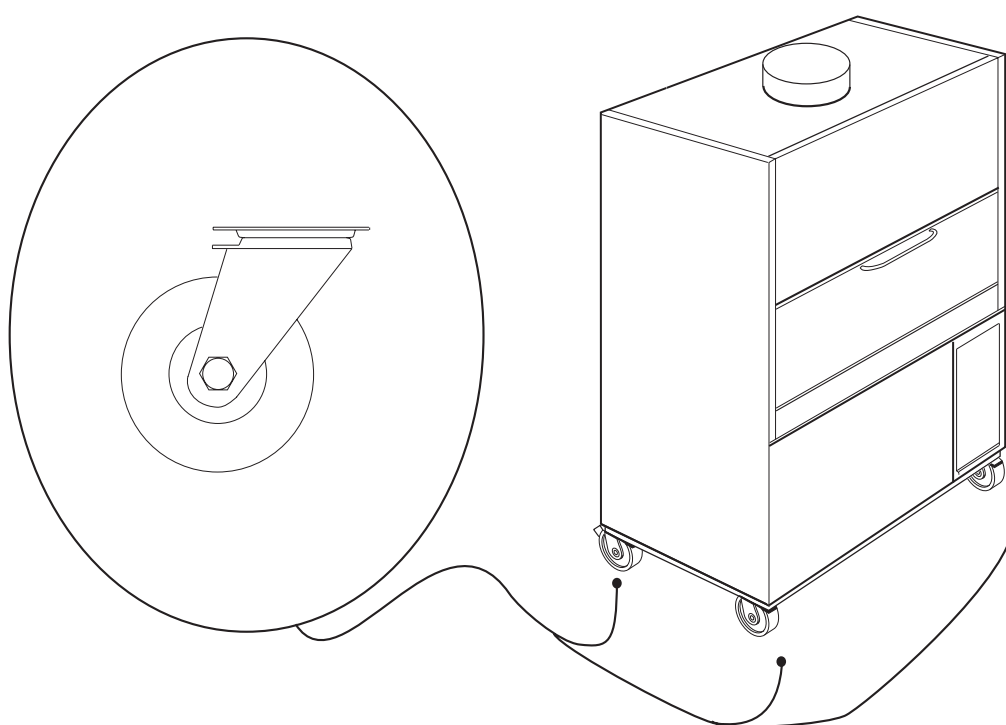
En Option



The machine can be equipped with external shower hose available on request as optional, ball valve included for water inlet dosing.

Wheels setting

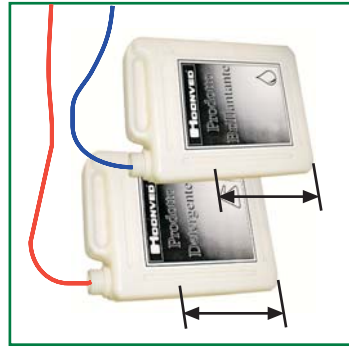
En Option



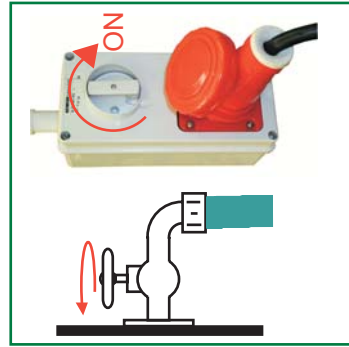
The machine can be equipped with wheels.

INSTRUCTION FOR A CORRECT USE OF THE MACHINE

(Checks before using the machine)



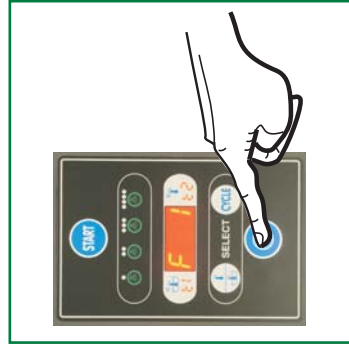
1 CONTROL the level of the detergents



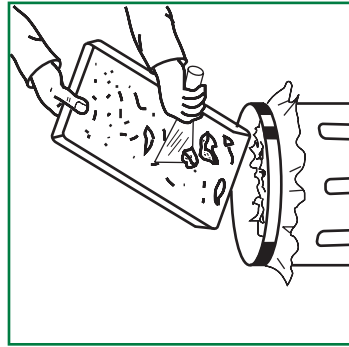
2 TURN ON the water tap and the safety switch



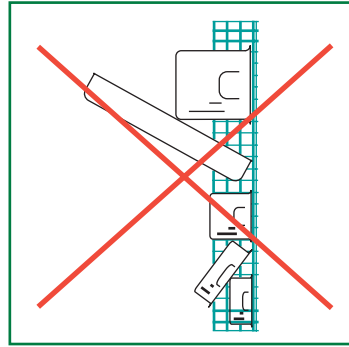
3 OFF machine is turned off



4 TURN ON the machine



5 DISPOSE OFF the coarsest food residues



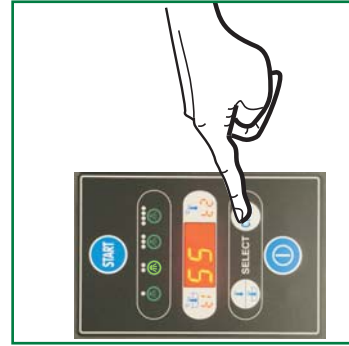
6 DO NOT OVERLAP the objects in the rack



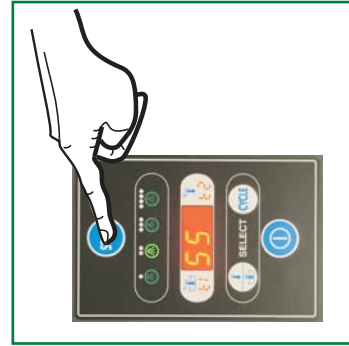
7 CORRECT positioning of the goods to be washed



8 CLOSE the door



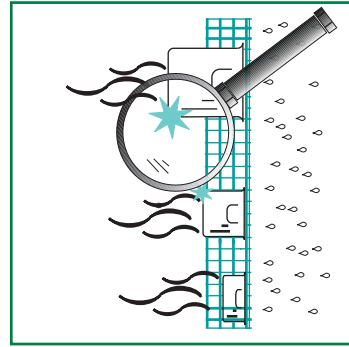
9 Once the 55°C TEMPERATURE is reached, select the cycle



10 PRESS START or close the door (if so selected) in order to start the washing cycle



11 OPEN the door



12 PULL OUT the rack and let the goods dry for a few seconds

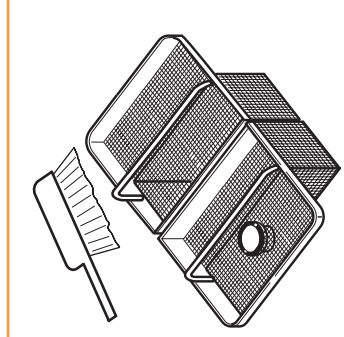
END OF THE DAY MAINTENANCE



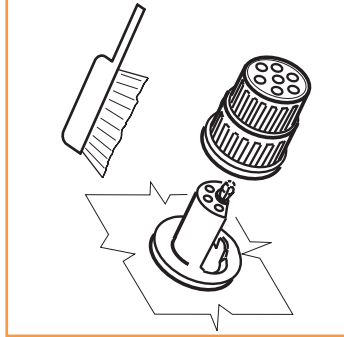
1 **TURN OFF** the machine



2 **LIFT** and turn the overflow tube by 180° in order to drain the tank



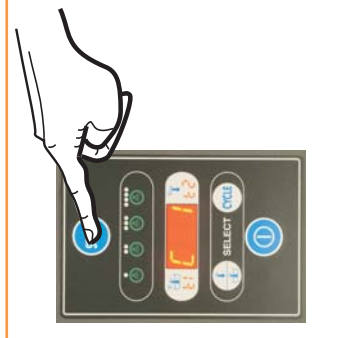
3 With machine **EMPTY**, pull out and clean the tank filter



4 With machine **EMPTY**, pull out and clean the pump safety filter



5 **RINSE OUT** the tank, the level probes and the heating element with the shower



6 With machine **TURNED OFF**, press start button for 5 secs. to start the self-cleaning program

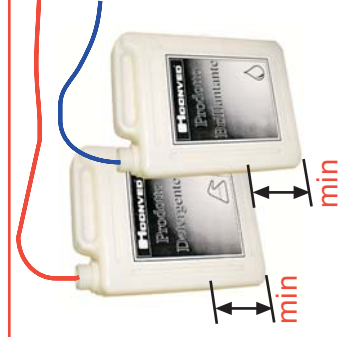
PRE-EMPTIVE MAINTENANCE



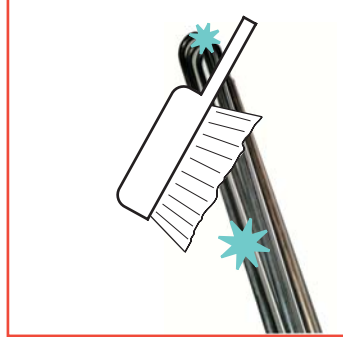
1 **TURN OFF** the safety switch



2 **MAKE SURE** that the wash and rinse arms rotate freely and, if necessary, clean them



3 **CONTROL** the level of the detergents



4 **CLEAN** the heating element carefully removing any food remnants



5 **MAKE SURE** that the water softener works correctly and has enough salt



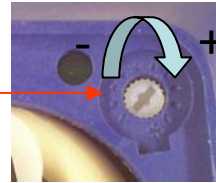
6 **USE ONLY** products specifically made for stainless steel. **DO NOT** use wire wool or chlorine products.

The present poster **ADDS TO AND DOES NOT REPLACE** the instruction manual supplied with the machine. For any further operation, please consult the manual. The manufacturer declines any responsibility in case of behaviours not complying with the instructions reported in the manual or with the warranty clauses.





DETERGENT DISPENSER PR 7



- ✓ Remove the plastic cover and, with the help of a screwdriver, regulate the number of revolutions.
- ✓ The speed range is from 10 to 50 RPM.
- ✓ The pump displaces about 2,3 ml of detergent every single revolution.
- ✓ The flow rate is adjustable from 23 to 115 ml per minute (from 1,4 to 7 litres/h).

Operations for a correct detergent dosage:

Verify the quantity of water introduced in the tank during the rinsing in order to know the number of fresh water litres changed (or see “water consumption cycle” in Technical Data sheets).

Read on the detergent canister the amount of product requested per each water litre and regulate the number of revolutions.

If on the canister is indicated the requested quantity per litre only in grams, it's possible to convert it in millilitres by the following mathematical equation:

$$\text{ml} : L = g : W \longrightarrow \text{ml} = g \times L / W$$

Legend:

ml= detergent consumption per cycle in millilitres

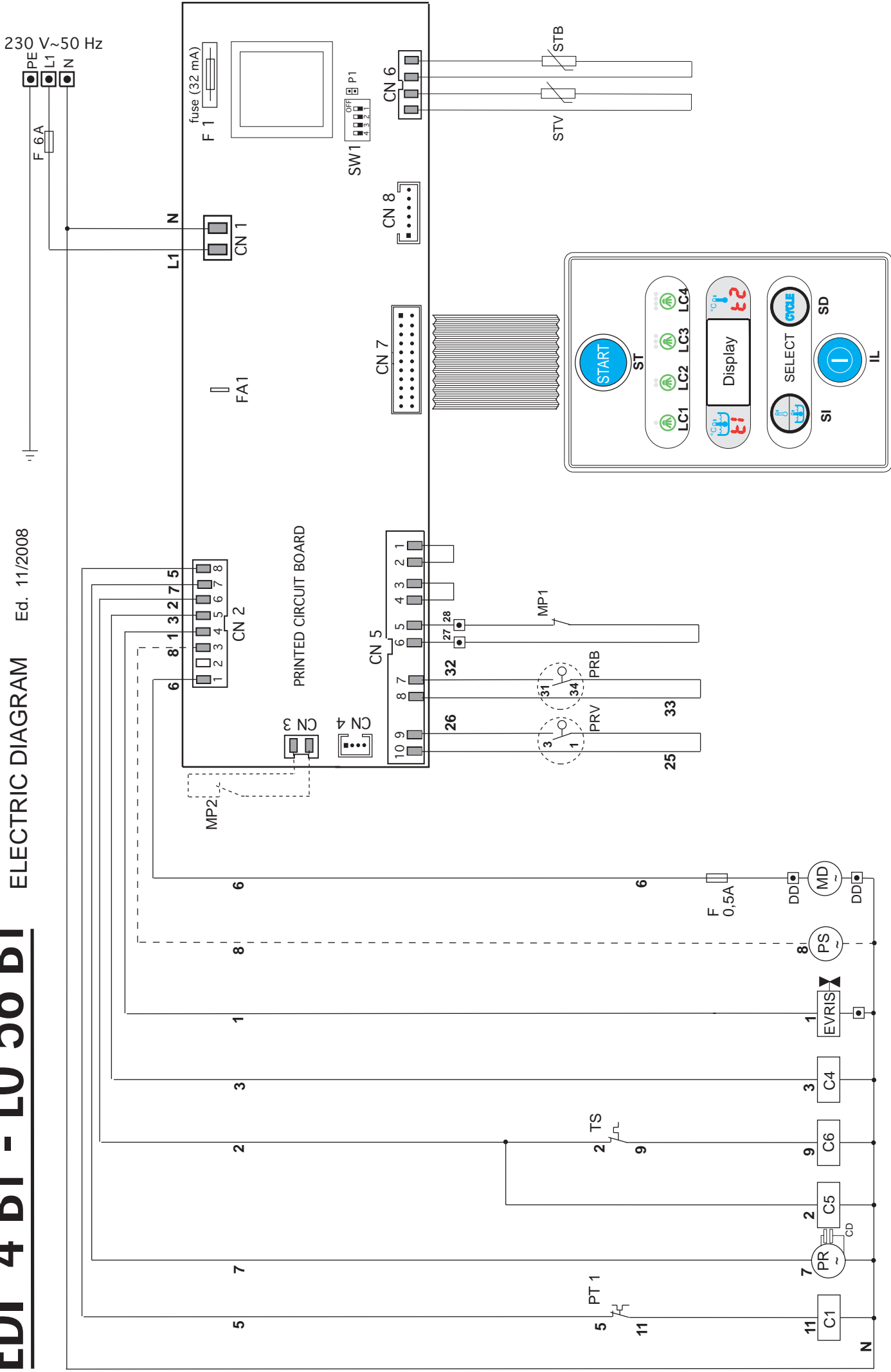
L= fresh water consumption per cycle in millilitres

g= detergent per water litre in grams (see the quantity indicated on the detergent canister)

W= specific weight of the detergent in grams (weight of one litre of the detergent in grams)

EDI 4 BT - L0 56 BT

ELECTRIC DIAGRAM Ed. 11/2008



LEGEND

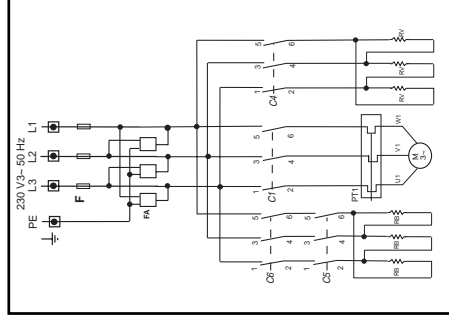
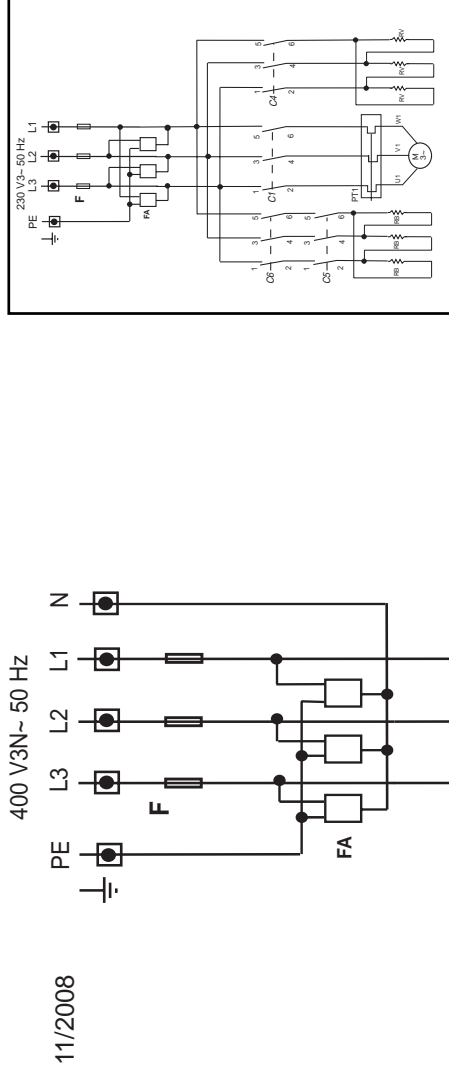
- F** = Fuse (25 A)
- FA** = Electromagnetic Field Filter
- C1** = Remote Switch for wash pump 1
- C4** = Remote Control Switch for tank heating element
- C5** = Safety Remote Control Switch for boiler
- C6** = Remote Control Switch for boiler heating element
- PLAV1** = Wash pump motor 1
- PR** = Rinse pump motor
- RB** = Boiler heating element
- RV** = Tank heating element
- PT1** = Electropumpe Thermal protection
- PS** = Drain pump
- EVRIS** = Rinse + water inlet electrovalve
- MP1** = Door microswitch
- MP2** = Predispos. double door microswitch
- DD** = Detergent pump
- MD** = Detergent pump motor
- STB** = Boiler temperature probe
- STV** = Tank temperature probe
- TS** = Safety thermostat
- IL** = Line selector
- ST** = START button
- SD** = Boiler/Tank temperature selection button (decrease)
- SI** = Cycle/Automatic or manual Start (increase)
- LC1** = Short cycle light
- LC2** = Medium cycle light
- LC3** = Long cycle light
- LC4** = Intensive cycle light
- PRV** = Tank pressostat
- PRB** = Boiler pressostat
- CD** = Capacitor 5 mF

EDI 4 BT - LO 56 BT

DIAGRAM POWER

Ed. 11/2008

400 V3N~ 50 Hz



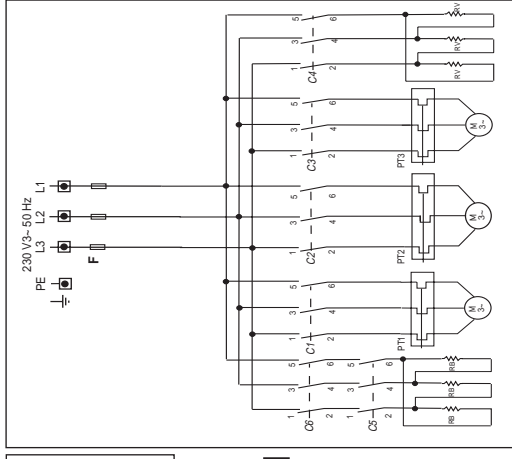
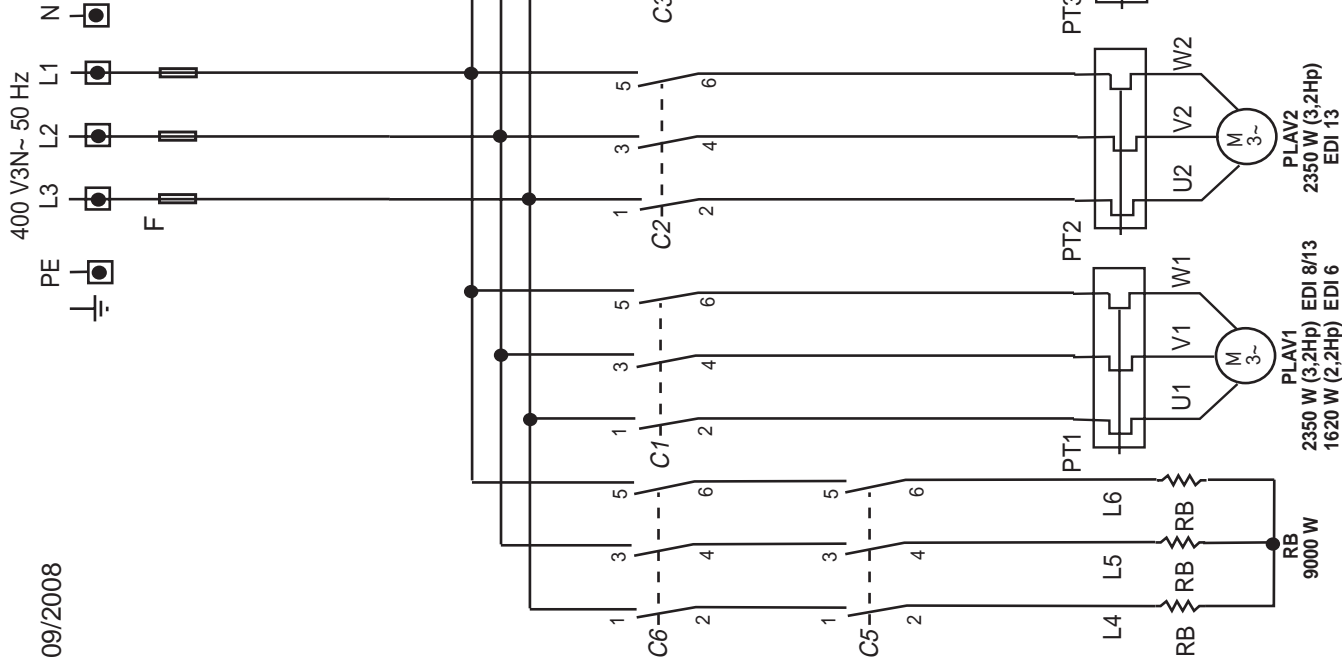
LEGEND

- F = Fuse EDI 6 = 25 A
EDI 8 = 25 A
EDI 13 = 32 A
- FA = Electromagnetic Field Filter
- C1 = Remote Switch for wash pump 1
- C2 = Remote Switch for wash pump 2 (solo EDI 13-only EDI 13)
- C3 = Remote Switch for rinse pump
- C4 = Remote Control Switch for tank heating element
- C5 = Safety Remote Control Switch for boiler
- C6 = Remote Control Switch for boiler heating element
- MPL1 = Wash pump motor 1
- MPL2 = Wash pump motor 2
- MPR = Rinse pump motor
- RB = Boiler heating element
- RV = Tank heating element
- PT1-3 = Electropumpe Thermal protection
- LL = Line lamp
- LMP = Lamp ready machine
- LC = Cycle lamp
- DD = Detergent pump
- MD = Detergent pump motor
- PS = Drain pump
- EVC = Hot water electrovalve
- MP1 = Door microswitch
- MP2 = Predispos. double door microswitch
- STB = Boiler temperature probe
- STV = Tank temperature probe
- TS = Safety thermostat
- SLT = Wash time selector
- SLED = Led card
- SL = Level probe min./max

ELECTRICAL DIAGRAM

EDI 6/8/13 - LO 67/83/134

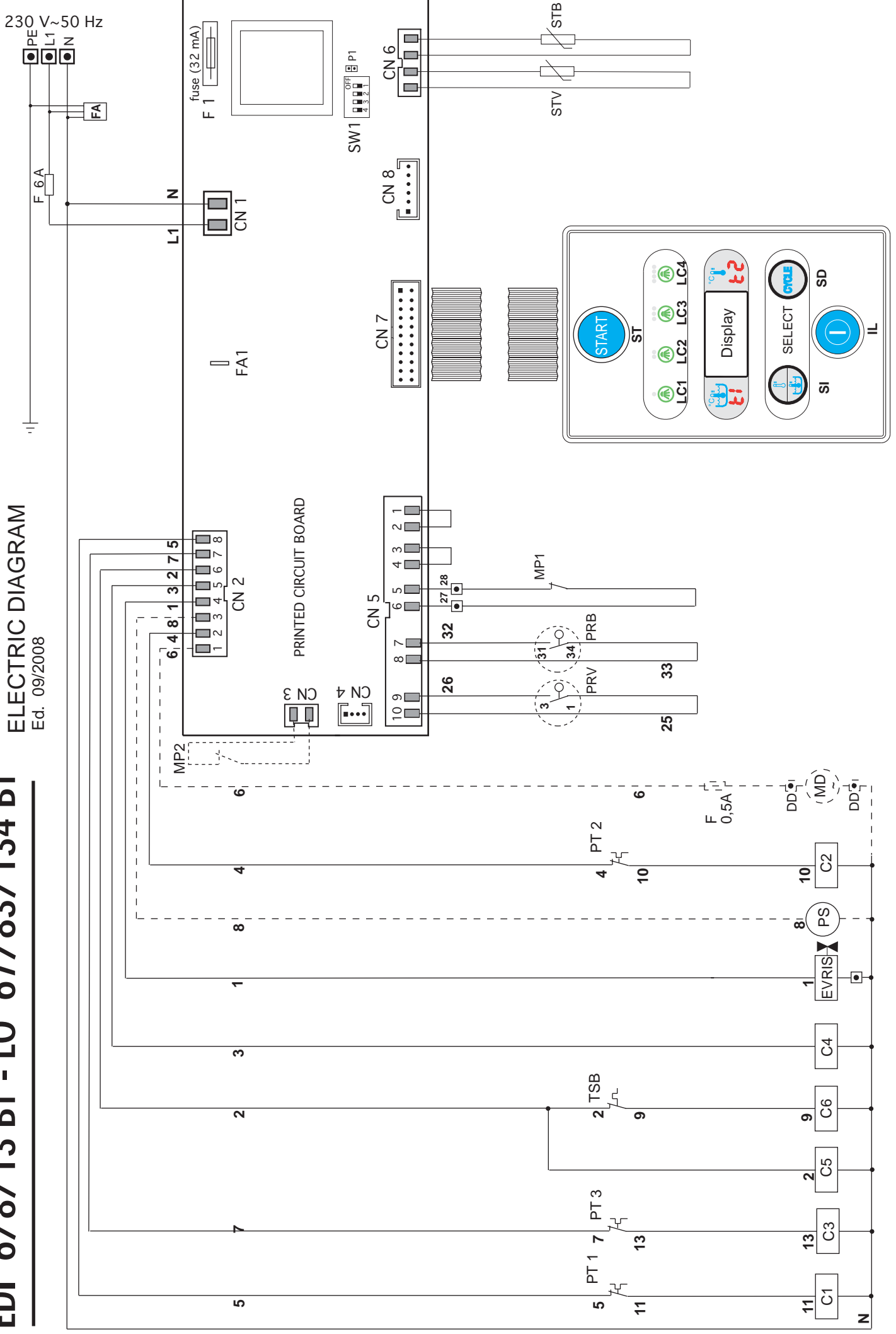
Ed. 09/2008



EDI 6/8/13 BT - LO 67/83/134 BT

ELECTRIC DIAGRAM

Ed. 09/2008

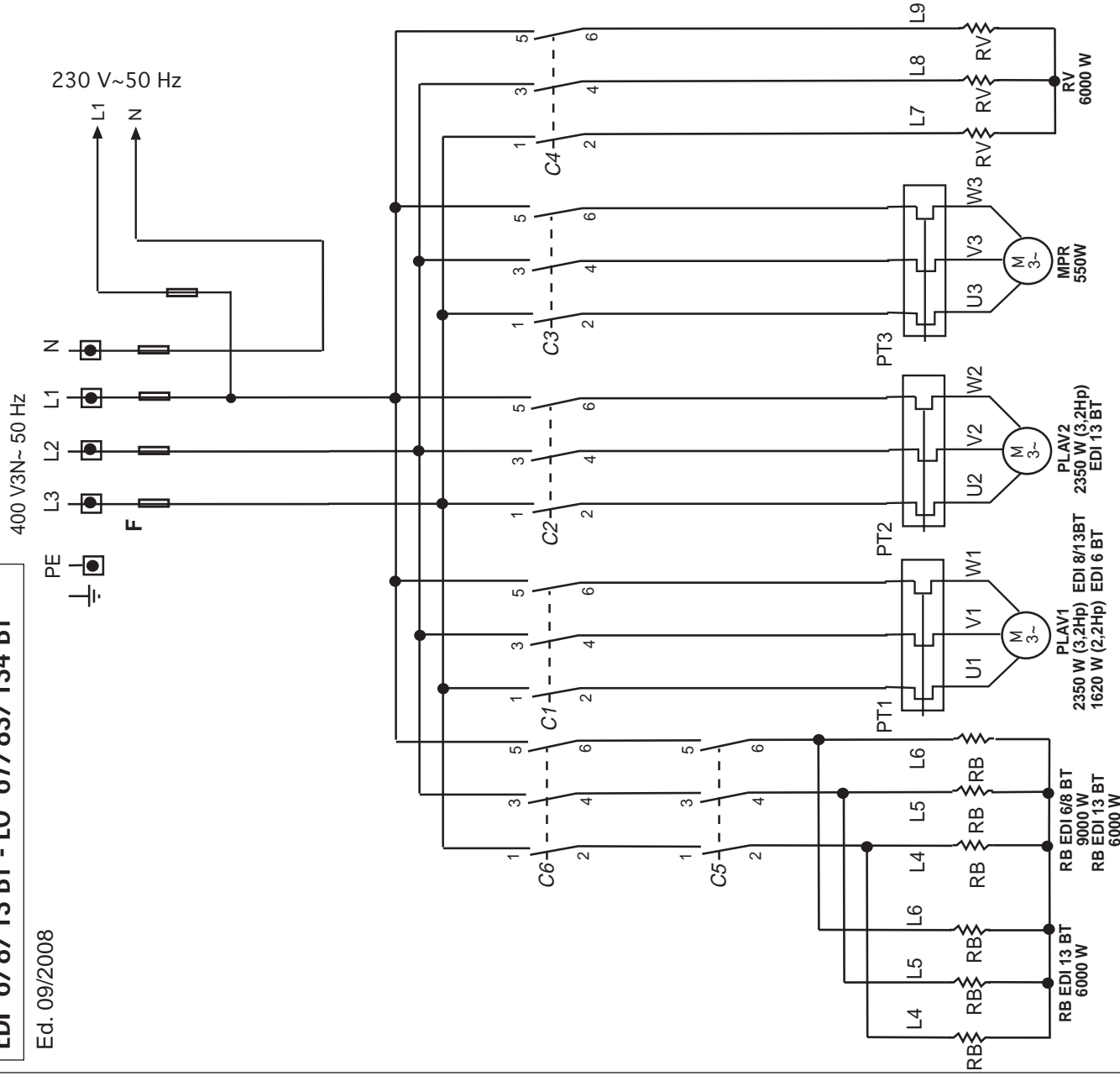


LEGEND

- F** = Fuse
- FA** = Electromagnetic Field Filter
- C1** = Remote Switch for wash pump 1
- C2** = Remote Switch for wash pump 2 (solo EDI 13-only EDI 13)
- C3** = Remote Switch for rinse pump
- C4** = Remote Control Switch for tank heating element
- C5** = Safety Remote Control Switch for boiler
- C6** = Remote Control Switch for boiler heating element
- PLAV1** = Wash pump motor 1
- PLAV2** = Wash pump motor 2
- MPR** = Rinse pump motor
- RB** = Boiler heating element
- RV** = Tank heating element
- PT1-3** = Electropumpe Thermal protection
- PS** = Drain pump
- EVRIIS** = Rinse + water inlet electrovalve
- MP1** = Door microswitch
- MP2** = Predispos. double door microswitch
- DD** = Detergent pump
- MD** = Detergent pump motor
- STB** = Boiler temperature probe
- STV** = Tank temperature probe
- TSB** = Safety thermostat
- SL** = Level probe min./max
- IL** = Line selector
- ST** = START button
- SD** = Boiler/Tank temperature selection button (decrease)
- SI** = Cycle/Automatic or manual Start (increase)
- LC1** = Short cycle light
- LC2** = Medium cycle light
- LC3** = Long cycle light
- LC4** = Intensive cycle light
- PRV** = Tank pressostat
- PRB** = Boiler pressostat

DIAGRAM POWER
EDI 6/8/13 BT - LO 67/83/134 BT

Ed. 09/2008



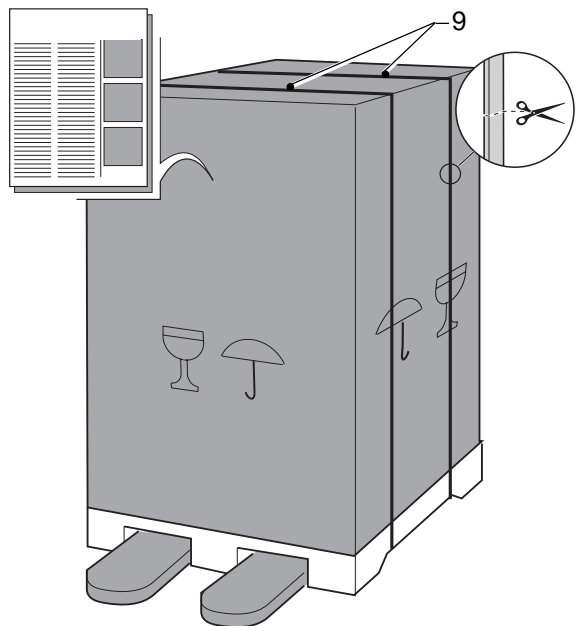


Fig. 2

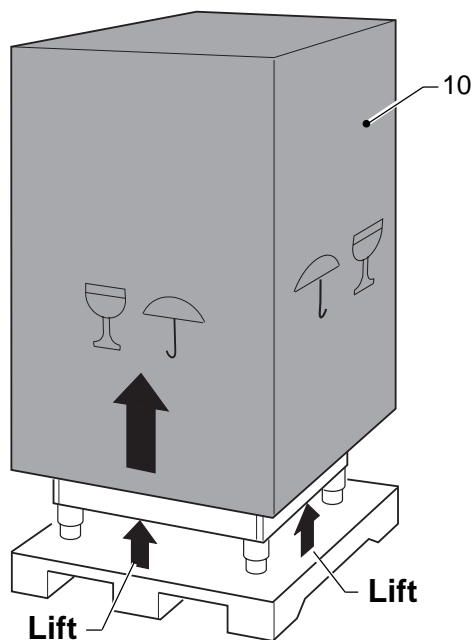
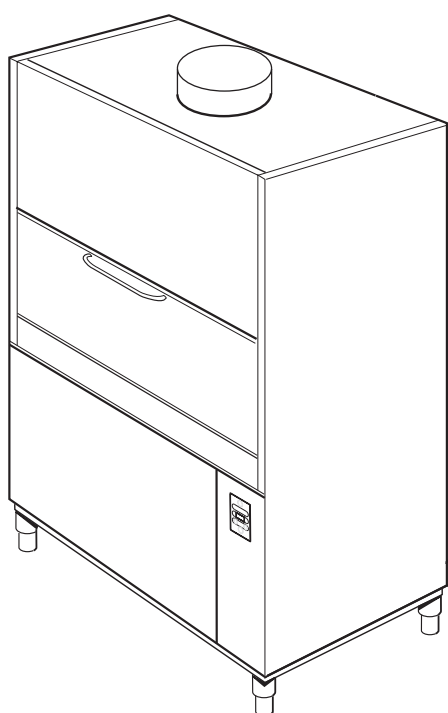


Fig. 3







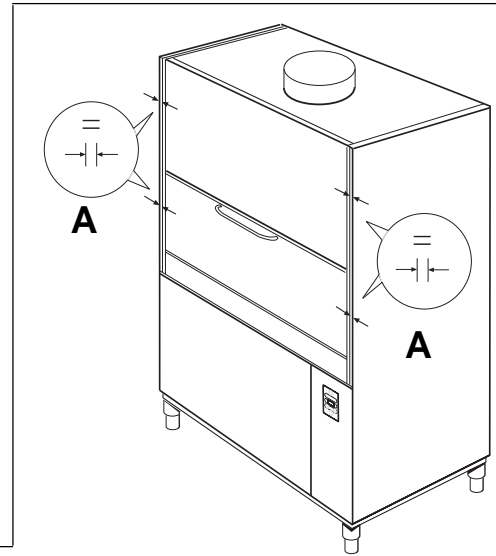
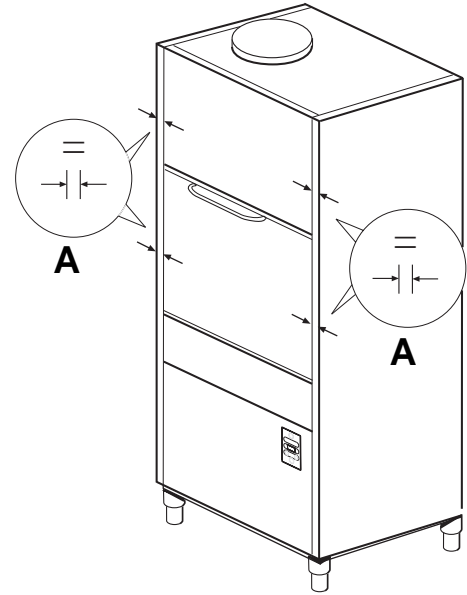
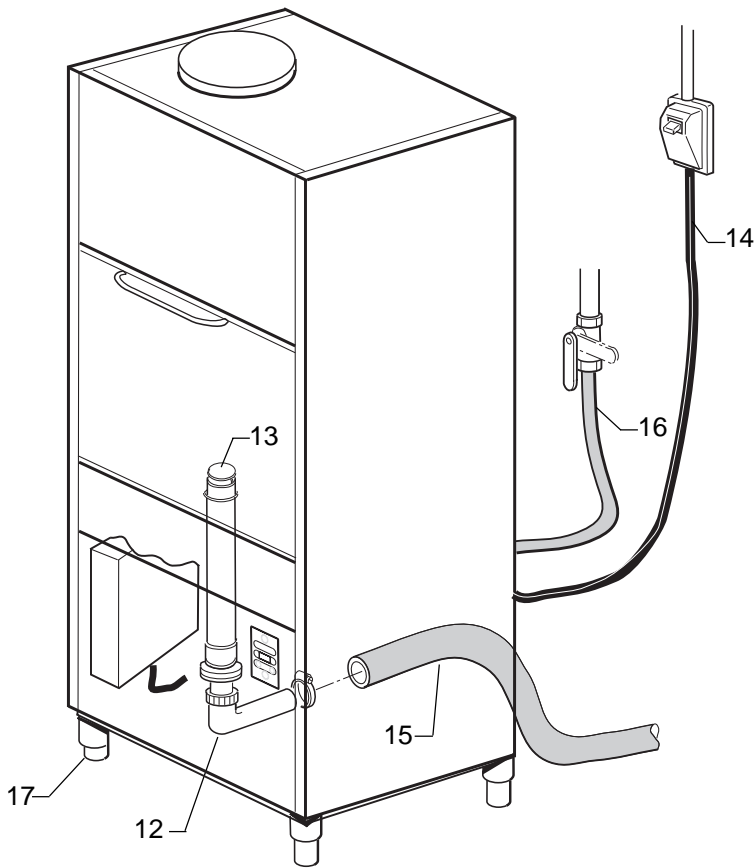
Type _____		S/N _____	
V _____	Hz _____	A. _____	
kW (M) _____	kW \sim _____	kW max. _____	
Dynamic pressure water supply	{ min 2 bar = 200kPa max 2 bar = 200kPa		Warm / Cold 55° / 12° C
Dynamic pressure saturated stream	{ min _____ max _____		IP _____  A. _____ 
		 	

Fig. 4

EDI 4 BT



EDI 6-8-13-13ALTA

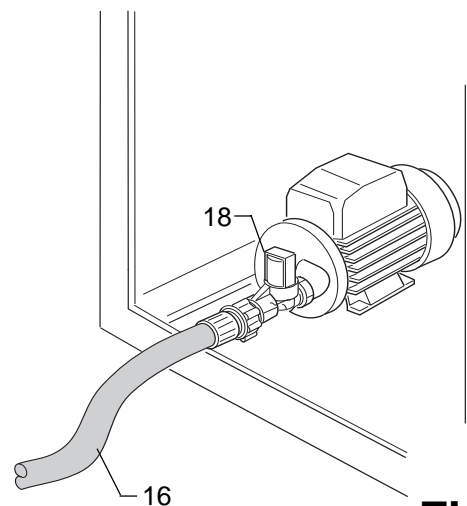
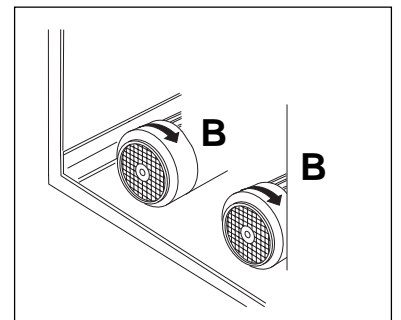
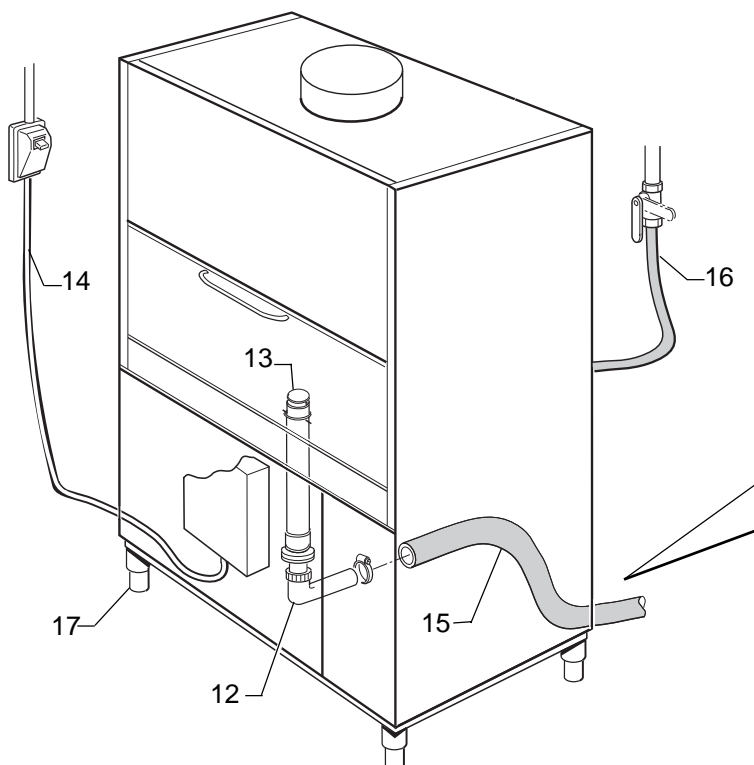


Fig. 5

EDI 4 BT

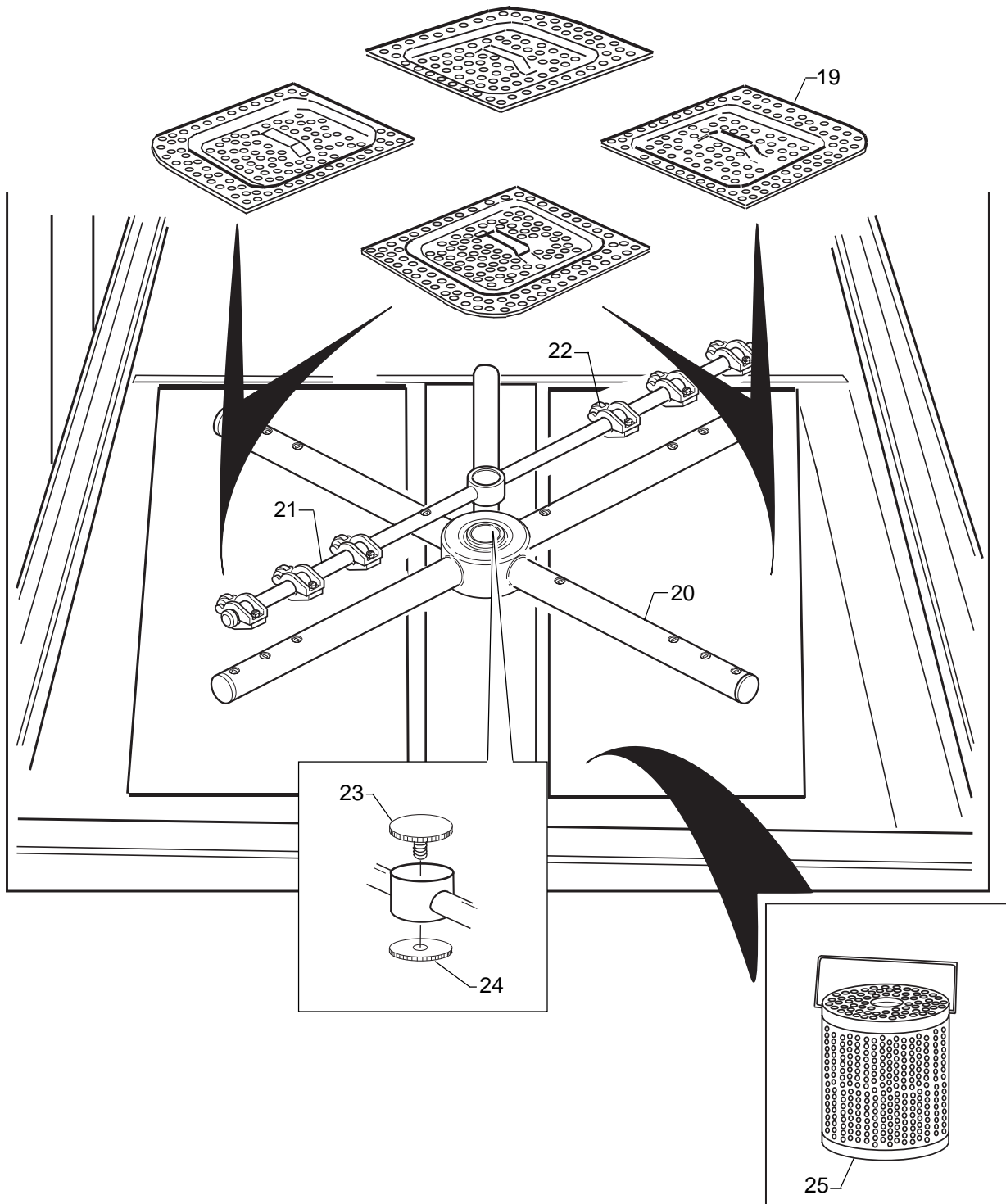


Fig. 6

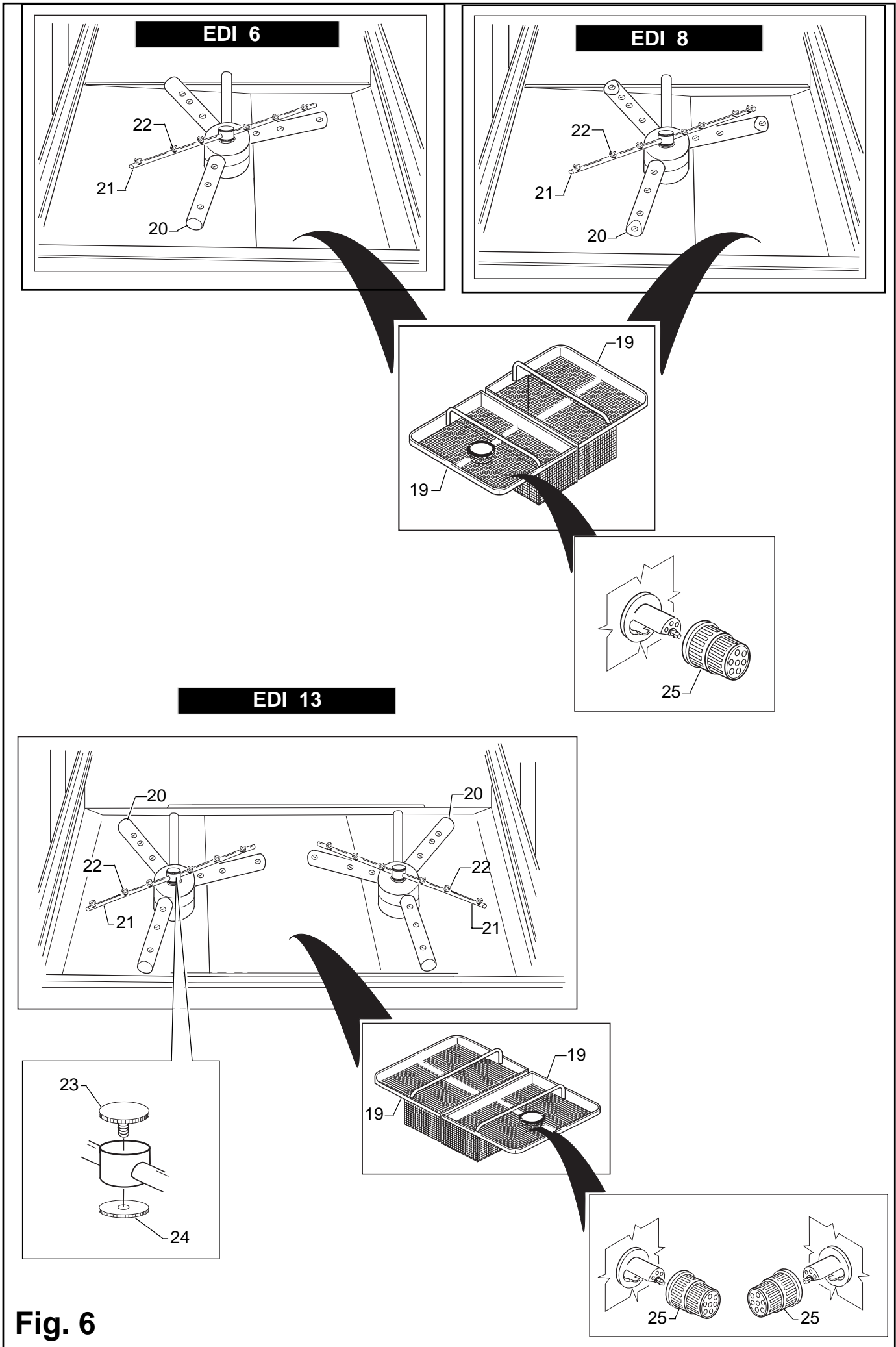


Fig. 6



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