

UNDERCOUNTER TYPE DISHWASHER

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UNDERCOUNTER TYPE DISHWASHER

A GENERAL INFORMATION

Before installing the appliance, read operation and maintenance instructions carefully. Wrong installation and part changing may damage the product or may cause injury on people. These are not in our company's responsibility to damage the appliance intentionally, negligence, detriments because of disobeying instructions and regulations, wrong connections. Unauthorized intervention to appliance invalidates the warranty.

1. This instruction manual should be kept in a safe place for future reference.
2. **Installation should be made in accordance with ordinances and security rules of that country by a qualified service personnel.**
3. This appliance has to be used by trained person.
4. Please turn off the appliance immediately in the event of malfunction or failure. The appliance should be repaired only by authorized service personnel. Please demand original spare part.

UNDERCOUNTER TYPE DISHWASHER

A1 PRODUCT DESCRIPTION

*The Professional Undercounter Type Dishwasher ,that provides high efficiency has been designed to be used in industrial kitchens.

Product Code	Dimensions (mm)	Weight (kg)	Packaging Dimensions (mm)
EMP.500	590x700x820	67	725x650x970

A2 TECHNICAL INFORMATION

Product Code	EMP.500
Capacity (Plate/ hour)	500
Water Consumption (Lt/Piece.)	2,5
Total Power (KW)	3,6
Motor Power (KW)	0,55
Operating Voltage (V)	220
Water Pressure (bar)	4
Washing Tank Power (KW)	2,5
Rinsing Tank Power (KW)	3
Cable (mm ²)	3x2,5
Fuse (A)	25
Max.Plate Diameter (Ø)	320
Program Number (°C)	90 - 120 - 180

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A3 TRANSPORTATION

*This appliance can not be moved by hand from area to area. It must be moved on pallet with forklift truck.

A4 UNPACKING

*Please unpack the package according to the security codes and ordinances of current country and get rid from the pack. Parts which contacts with food are produced by stainless steel. All plastic parts are marked by material's symbol.

*Please check that all the parts of appliance had come completely and if they are damaged or not during the shippin.

B INSTALLATION

*Please place the product to straight and sturdy ground, please take necessary steps against possibility of overturn.

*Technician who will serve for installation and service for the appliance must be professional on this subject and must have installation and service licenses by the company.

*Connection to Electric Power Supply must be done by authorized person.

*Please be sure that the voltage connected to appliance must be equal with the voltage which is on appliance's label.












This appliance must be connected to an earthed outlet in accordance with safety rules and standards.

*Appliance's earthing must be connected to earthing line on panel which is nearest to electric installation.

*Connection to the main fuse and leak current fuse must be done in accordance with the current regulations.

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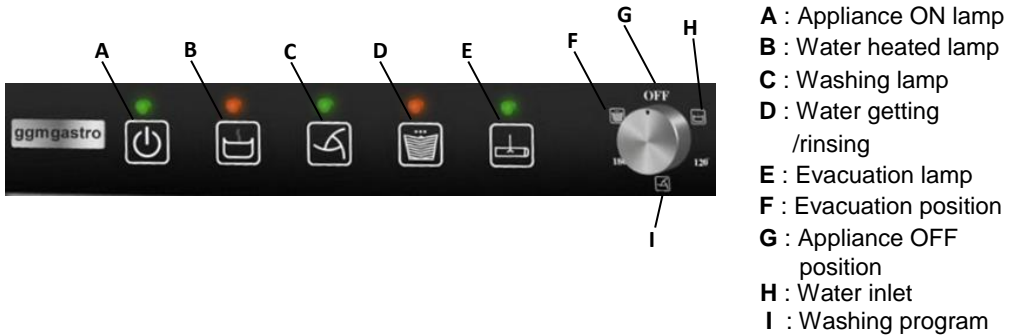
C SAFETY INSTRUCTIONS

-  *Do not use the appliance in insufficient lighted place.
-  *Do not touch the moving attachments while the appliance operates.
-  *Do not install the appliance in the presence of flammable or explosive materials.
-  *Do not operate the appliance when the machine is empty.
-  *Do not load so less or more than appliance's capacity.
-  *Do not attempt to use the appliance without suitable protective equipments.
-  *Because of any reason if there is a fire or flame flare where the appliance is used, turn off all gas valves and electric contactor switch quickly and use fire extinguisher. Never use water to extinguish the fire.
-  *All the damages because of not having earthing connection will not be on warranty.
-  *Do not wash the decorated dishes. Prevent silver wares to contact with the other metals.

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D OPERATION

*Control Panel;



*Operating;

- Change the water that is in water tank 3 times in a day.
- Before putting the dishes in to the appliance,make prewash with cold or warm water without using any detergent.
- Turn on the water source valve and plug in the appliance.
- In order to take off any residue that remain in storage or pipes,operate the appliance when it is empty.
- When the appliance is at OFF position,get "water inlet" by switching to right.If "water heated lamp" signals ,it indicates that the power is given to the dishwasher,water is given and heated.
- Open the appliance's lid and put enough detergent into the storage.(If detergent pump is not connected).
- Place the dirty dishes on baskets.
- Close the lid and choose the suitable washing program.Connected indicator lamp signals and washing starts.
- Washing process; for hot water and washing with detergent (minimum 55°C) ,for rinsing with hot water and polisher (minimum 75°C).
- After washing process,the appliance will start the automatic rinsing program.
- At the end of program,open the lid and take off washed basket.Place another basket to be washed.The machine will do washing and rinsing process at chosen program.

UNDERCOUNTER TYPE DISHWASHER

E CLEANING & MAINTENANCE

➤ **CLEANING AND MAINTENANCE AFTER EVERY USE**

- Always turn off the appliance and disconnect from the power supply before cleaning.
- Evacuate the water by taking off the stopple and switching to evacuation position after every use.
- Clean all surfaces of the appliance with hot soapy water after every use. Rinse and dry with a wet cloth.
- Clean the control panel with soft moist cloth, if necessary use ineffective detergent.
- Do not use abrasive cleaning chemicals as these can leave harmful residues.
- Do not clean the appliance by spraying water directly, otherwise electric motor may get damaged.

➤ **PERIODIC CLEANING AND MAINTENANCE**

- Maintenance should be done by qualified person.
- Clean the limes of the burner, inner surface of the washing tank and water pipes once or twice in a year.
- Clean the limes with using rinsing and washing nozzles once in a month by using vinegar or lime remover.
- Clean the filters in the appliance once in a week. After cleaning be sure that thumbscrew is compressed.
- Clean the appliance's fountains once in 15 days by detaching it.
- Clean the appliance's evacuation stopple and evacuation hoses once in 15 days.

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F TROUBLESHOOTING

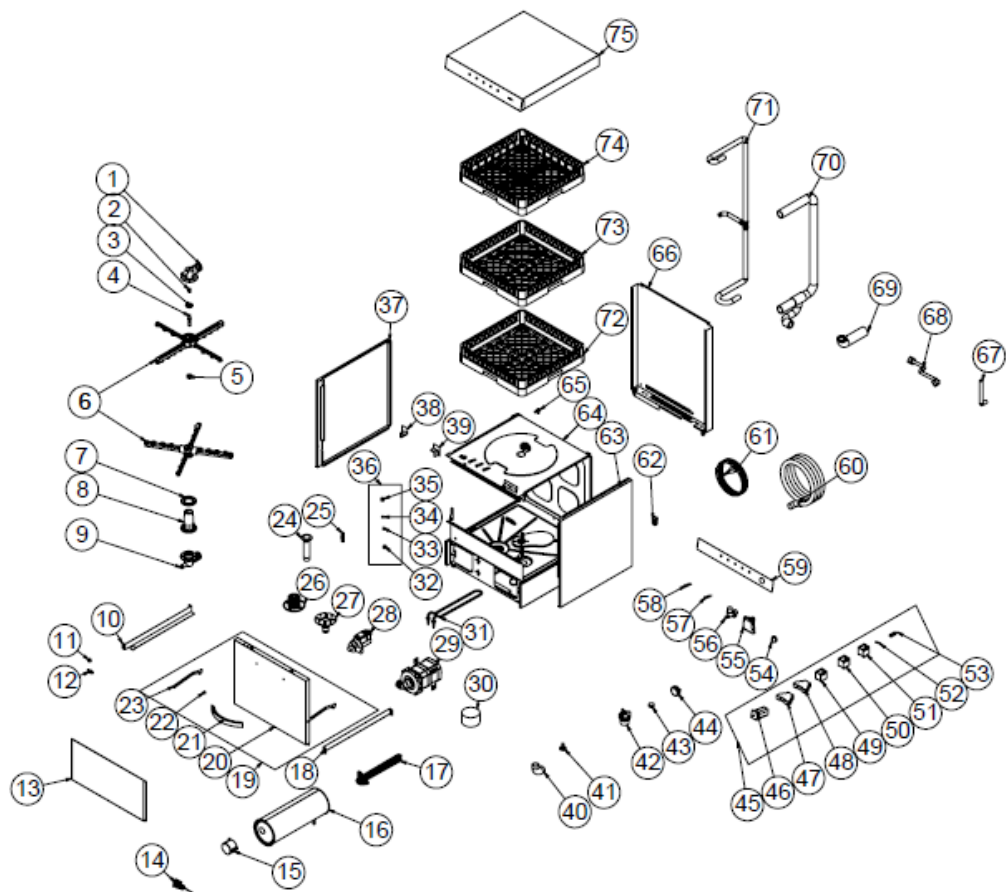
THE APPLIANCE DOESN'T WASH WELL	<ol style="list-style-type: none">1. Clean the absorbing filter if it is dirty.2. Check the washing nozzles if they are accumulated with residues or not.3. Check the amount of detergent.4. If chosen washing program is too less,repeat the program.5. Check if the plates are placed to the baskets correctly.
CUPS AND PLATES ARE NOT DRIED WELL	<ol style="list-style-type: none">1. If there is polisher or not,if not add some.2. Check the amount of polisher.
MIST OVER ON CUPS	<ol style="list-style-type: none">1. After washing process ,take off the cups from baskets.
CORROSION ON CUPS	<ol style="list-style-type: none">1. Only use products that are not foaming for the professional dishwashers.
MUCH FOAM AT STORAGE	<ol style="list-style-type: none">1. Check the amount of detergent .2. If foaming detergent is used,pour it and rinse the storage till the foams are lost.
WASHING OR RINSING HANDLES ARE TURNING SLOWLY	<ol style="list-style-type: none">1. Take off washing handles and clean them.2. Clean the washing pump absorbing filter.
VISCIDITY AND SPOTS ON CUPS	<ol style="list-style-type: none">1. Reduce the amount of polisher.

- If dishwashing is not done at suitable quality
- If any function of security doesn't work
 - Do not use the appliance.

***If these problems are still going on,contact with our authorized services.**

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G SPARE PART LIST-EXPLODING DRAWING



UNDERCOUNTER TYPE DISHWASHER

G SPARE PART LIST-EXPLODING DRAWING

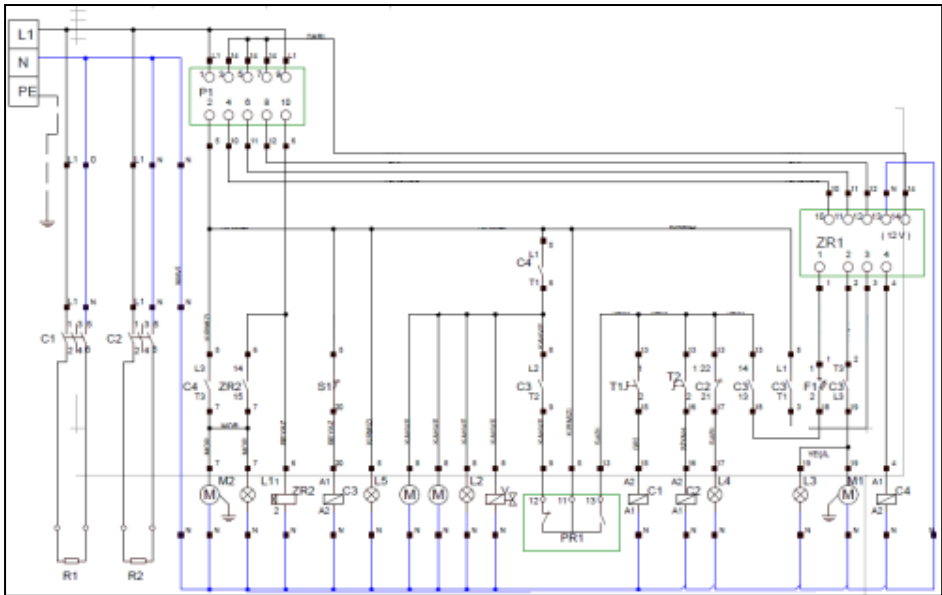
PRODUCT CODE : EMP.500		
NO	PRODUCT NAME	P. CODE
1	HOSE INLET UPPER ELBOW (BUSHING)	M.ENJ-ERS-PLS-BYM-097
2	FOUNTAIN BELLY SIGN	YTL-ERS.BYM-KS-0014
3	PRESSURE PLASTIC	M.ENJ-ERS-PLS-BYM-059
4	FOUNTAIN CORE SHAFT	YTL-ERS.BYM-KS-0001
5	FOUNTAIN CORE SCREW	M.ENJ-ERS-PLS-BYM-070
6	FOUNTAIN	M.ENJ-ERS-PLS-BYM-053
7	BOTTOM TOP FOUNTAIN CORE GASKET (WITH ORING)	M.ENJ-ERS-LST-019
8	LOWER FOUNTAIN CORE	M.ENJ-ERS-PLS-BYM-020
9	HOSE INLET LOWER ELBOW (WITHOUT BUSHING)	M.ENJ-ERS-PLS-BYM-096
10	RIGHT SLIP SHEET	YSC-ERS.BYM-LZ-0005
11	DIAMETER 15*5 - MAGNET	M.MIK-ERS-001
12	MICNATIS BED 15X5	M.ENJ-ERS-PLS-BYM-001
13	BOTTOM COVER SHEET	YSC-ERS.BYM-LZ-0452
14	TERMOSTAT-0-90C (EGO-5517012040)	M.ELK-MEK-TRM1-008
15	RESISTOR COVER	M.ENJ-ERS-PLS-BYM-025
16	BOILER TANK	M.MEK-TES-BYM-BYL-001
17	F2120-1P 121348 UPI-BOILER RESISTANCE 220V-5000W	M.ELK-RZS-BRU-BYM-030
18	LEFT SLEEVE SHEET	YSC-ERS.BYM-LZ-0004
19	COVER ASSEMBLY (SPARE PARTS)	ARA-ERS.BYM-0012
20	COVER EXTERIOR SHEET	YSC-ERS.BYM-PN-0344
21	LID HANDLE (21 CM)	M.AKS-KLP-INX-003
22	COVER HANDLE TURNING PART	YTL-ERS.BYM-KS-0119
23	TOP COVER HANDLE	YSC-ERS.BYM-LZ-0455
24	SHORT WATER DRAIN WEDGE	M.ENJ-ERS-PLS-BYM-016
25	COVER ARM WEDGE PLASTIC	M.ENJ-ERS-PLS-BYM-017
26	FILTER COVER	M.ENJ-ERS-PLS-BYM-086
27	WATER DRAIN WEDGE BEARING	M.ENJ-ERS-PLS-BYM-112
28	DRAIN PUMP CL2100	M.ELK-MTR-PMP-002
29	DISHWASHING MOTOR	M.ELK-MTR-PMP-001
30	STRAINER	M.ENJ-ERS-PLS-BYM-041
31	120541 UPI-TANK RESISTANCE 230V-2500W	M.ELK-RZS-BRU-BYM-028
32	SPRING SEAT SET	YTL-ERS.BYM-KS-0073
33	COVER SPRING	M.YAY-ERS-035
34	9,525 MM 316K STAINLESS STEEL GRAIN BALL (INOX)	M.MUH-021
35	BODY SET	YTL-ERS.BYM-KS-0072
36	ASSEMBLY (SPARE PARTS)	ARA-ERS.BYM-0013

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37	RIGHT SIDE SHEET	YSC-ERS.BYM-PN-0347
38	CORNER PLASTIC RIGHT	M.ENJ-ERS-PLS-BYM-061
39	CORNER PLASTIC LEFT	M.ENJ-ERS-PLS-BYM-062
40	WASHING PUMP HOSE	M.MEK-TES-HRT-014
41	FOOT TACROSIS	M.AKS-AYK-INX-004
42	ROUND STRAINER BED	M.ENJ-ERS-PLS-BYM-018
43	STRAINER NUT	M.ENJ-ERS-PLS-BYM-113
44	PROSESTAT SHAMANDIRA	M.ELK-MUH-001
45	READY ELECTRICAL PANEL GROUP	M.ELK-PNO-BYM-001
46	SWITCH	M.ELK-SLT-PKO-011
47	Z3-360S TIME ROLLER	M.ELK-KNT-ROL-007
48	DWT-3E TIME ROLLER	M.ELK-KNT-ROL-020
49	SCHNEIDER LC1K0901M7 MINI CONTACTOR	M.ELK-KNT-KNT-020
50	SCHNEIDER LC1K0910M7 MINI CONTACTOR	M.ELK-KNT-KNT-021
51	SCHNEIDER LC1K1210M7 MINI CONTACTOR	M.ELK-KNT-KNT-022
52	GLASS INSURANCE 5A	M.ELK-SGR-011
53	MAGNETIC SENSOR-HORIZONTAL	M.ELK-SWC-KTG-001
54	CHARTEL BUTTON	M.AKS-DGM-MUH-001
55	AIR TRAP	M.ENJ-ERS-PLS-BYM-019
56	VENTILATION-SINGLE INLET (14 LT)	M.ELK-SLN-PLS-001
57	WARNING LIGHT WITH PLUG-IN SOCKET - GREEN	M.ELK-LMB-SNY-001
58	WARNING LIGHT WITH PLUG-IN SOCKET - YELLOW	M.ELK-LMB-SNY-003
59	PANEL LABEL	M.AKS-ETK-LKS-ERS-BYM-014
60	244 CM ELBOW-FREE WASTE WATER HOSE	M.MEK-TES-HRT-033
61	3*2.50 MM TTR CABLE GRAY-BLACK	HEL-KB-TT-3*2,5-SYH
62	PG-16 GRAY CABLE GLAND WITH NUT (CENTER)	M.ELK-RKR-PLS-004
63	LEFT SIDE SHEET	YSC-ERS.BYM-PN-0346
64	CHASSIS	-
65	DETERGENT INLET PLASTIC	M.PLS-ERS-036
66	BACK COVER SHEET	YSC-ERS.BYM-PN-0010
67	VENTIL BOILER HOSE	M.MEK-TES-HRT-006
68	MAINS HOSE (150 CM)	M.MEK-TES-HRT-011
69	BOILER PUMP HOSE	M.MEK-TES-HRT-002
70	WASHING WATER INLET HOSE	M.MEK-TES-HRT-001
71	SPRINKLER DISTRIBUTION HOSE	M.MEK-TES-HRT-003
72	PLATE BASKET	EMP.TB.01
73	SPOON AND FORK BASKET	EMP.KC.01
74	GLASS BASKET	EMP.BB.01
75	TOP COVER SHEET	YSC-ERS.BYM-LZ-0448

UNDERCOUNTER TYPE DISHWASHER

H ELECTRIC CIRCUIT SCHEMA



UNDERCOUNTER TYPE DISHWASHER

P1	5 PROGRESSİVE COMMUTATOR
S1	MAGNETİC DOOR SENSOR
C1	BOİLER CONTACTOR 220V
C2	WASHİNG CONTACTOR 220V
C3	LİD CONTACTOR 220V
C4	RİNSİNG CONTACTOR 220V
L1	EVACUATION LAMP
L2	RİNSİNG LAMP
L3	WASHİNG LAMP
L4	WATER İS HEATED LAMP
L5	START LAMP
T1	BOİLER THERMOSTAT (30-90°C)
T2	WASHİNG THERMOSTAT (30-90°C)
ZR1	5 CYCLE- CYCLE RELAY (İNTER RR-5TG)
ZR2	0-240 SEC. CYCLE RELAY
PR1	PROSSESTAT
M	DETERGENT PUMPS
M1	WASHİNG MOTOR 0,55 KW 230V
M2	EVACUATION MOTOR 0,44 W 230V
R1	BOİLER RESİSTANCE 3000W
R2	WASHİNG RESİSTANCE 2500W
F1	LEAKAGE CURRENT SAFETY FUSE
F2	ZR1 FUSE 500MA
V	SOLENOİD VALVE 220V
TR1	WASHİNG MOTOR SAFETY RELAY
TR2	EVACUATION HOSE SAFETY THERMIC