



UNDERCOUNTER DISHWASHER SERVICE MANUAL

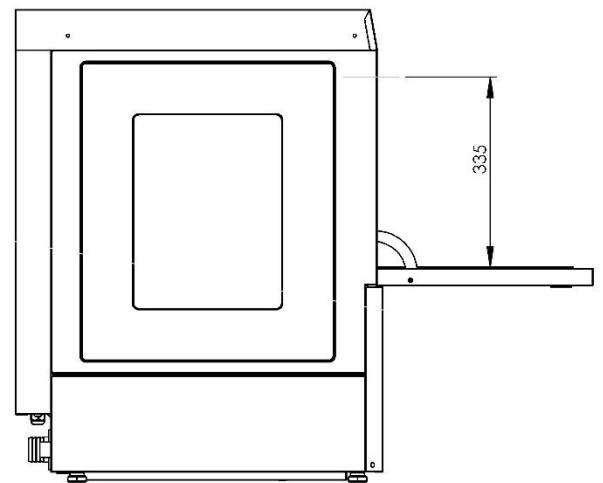
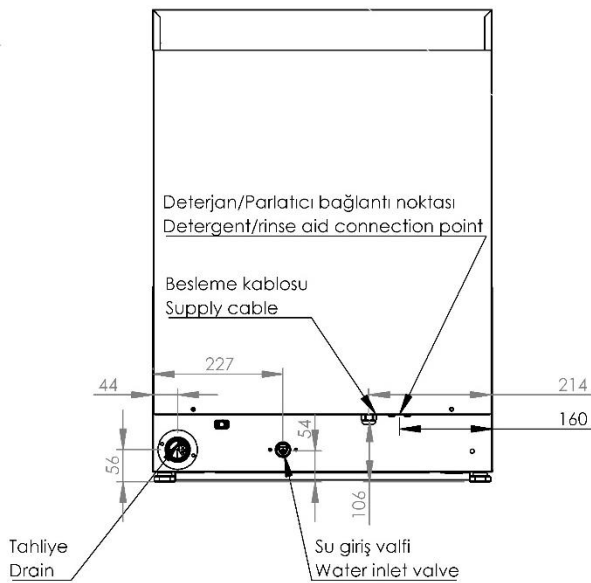
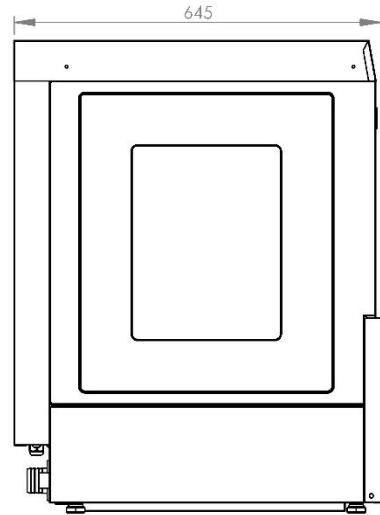
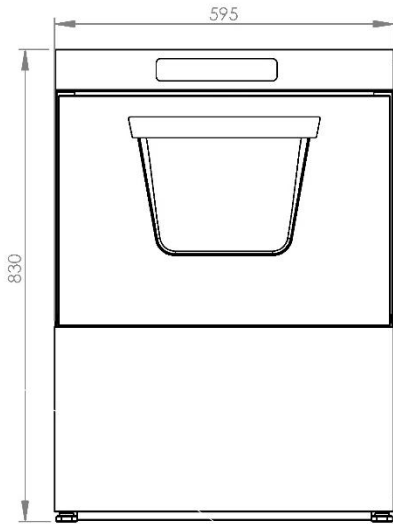


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1-Tecnical features and device dimensions:

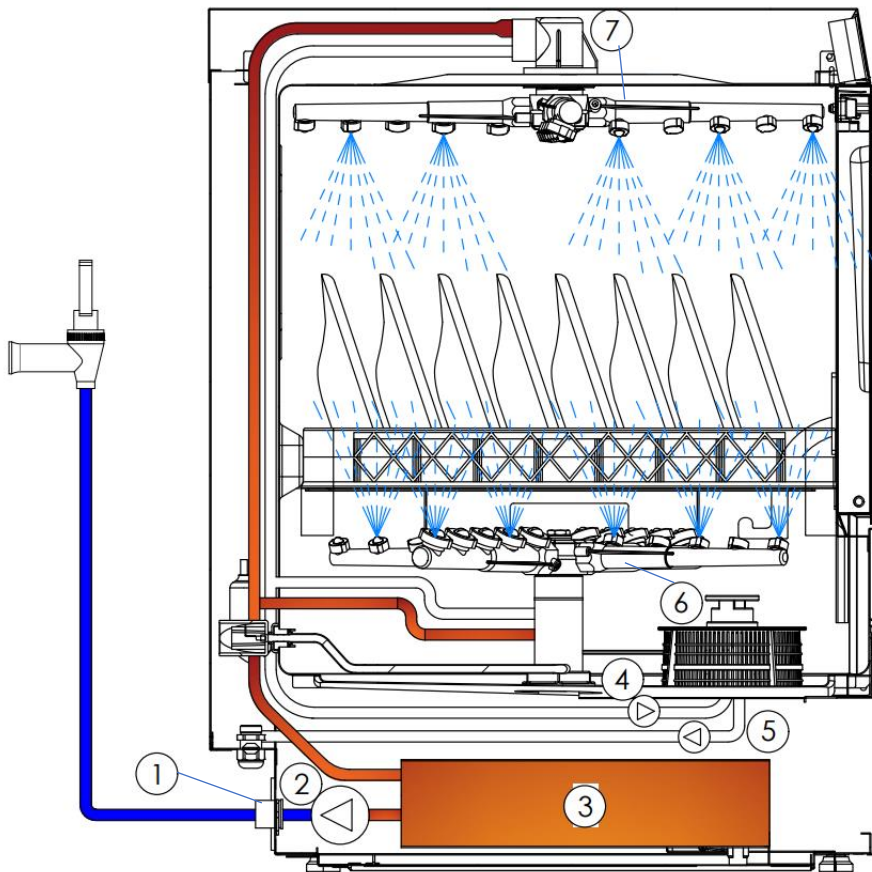
Washing Program Number	5
Washing Capacity (Basket/Hr)	35/27/23/20/18
Program Times(cn.)	102/132/152/172 /192
Washing pump power (Kw)	0,66
Washing/Boiler Tank Capacity	30 / 6 lt.
Heat Power (Wassing/Rinsing)	1,83/4,57
Max noise (dBA)	70
Loading Height (mm)	335
Protection Class	IPX5
Power	220 V 50 Hz



2-Dishwasher Working Principle :

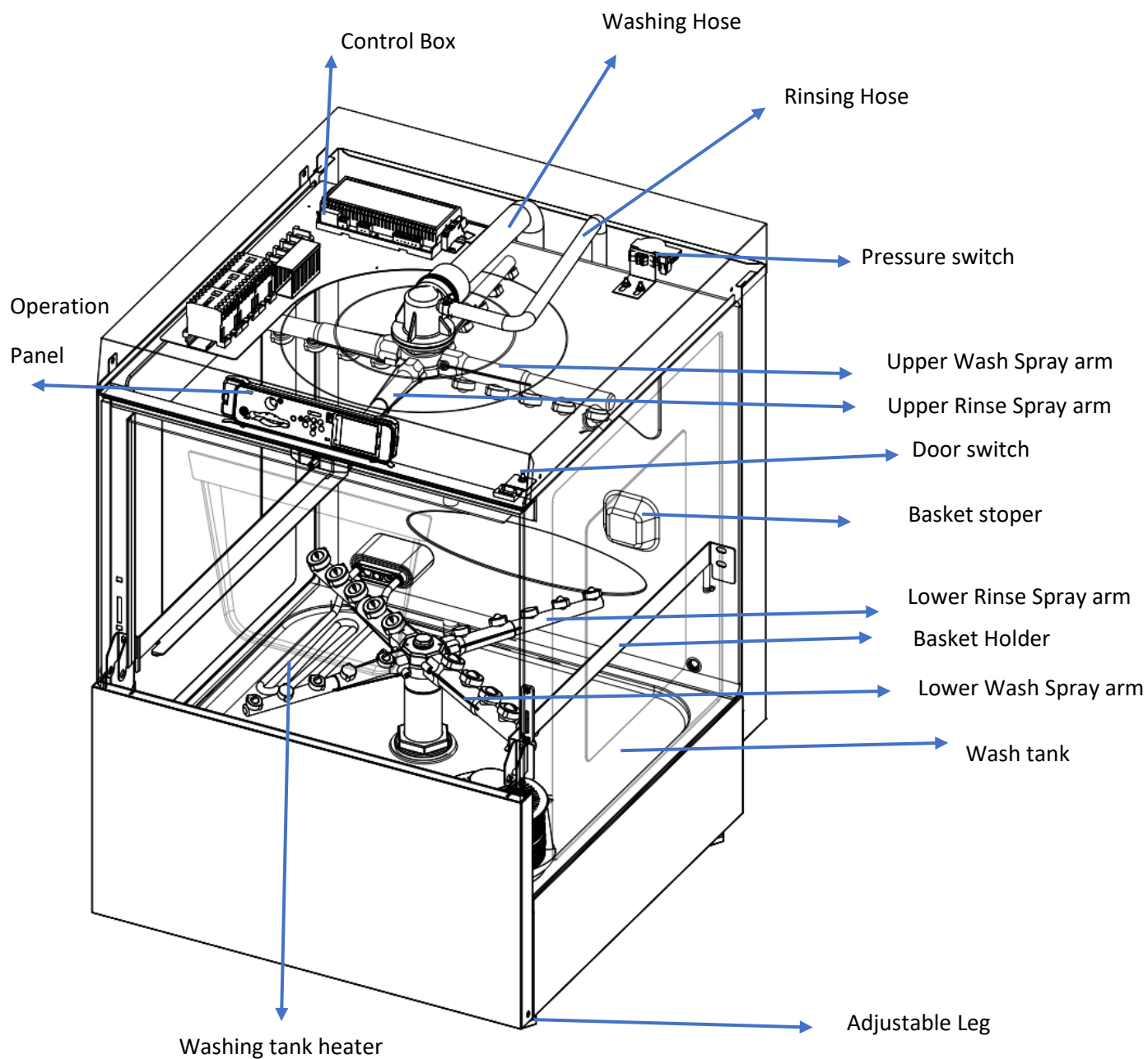
Water Path

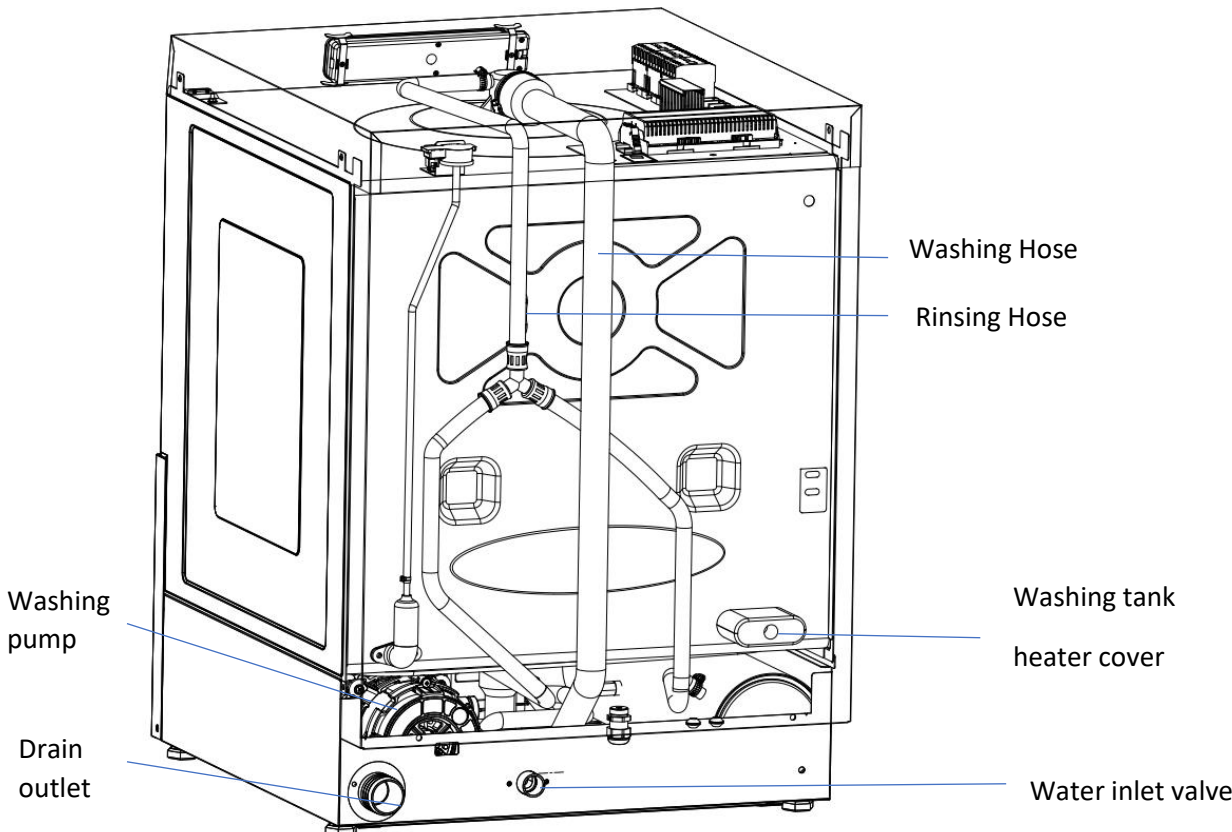
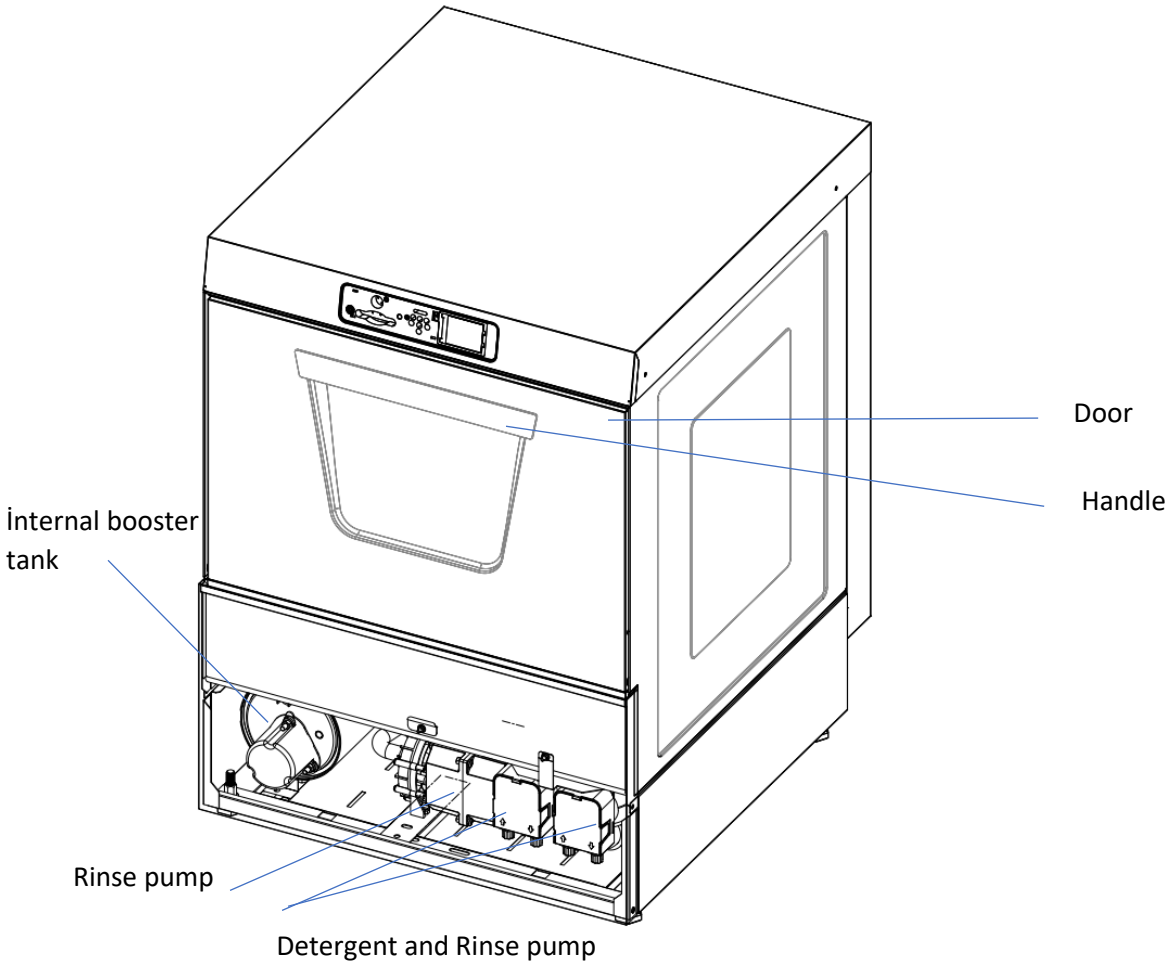
- 1-Water inlet valve
- 2-Rinse pump
- 3-Internal booster
- 4-Wash pump
- 5- Drain pump
- 6-Lower spray arm
- 7-Upper spray arm



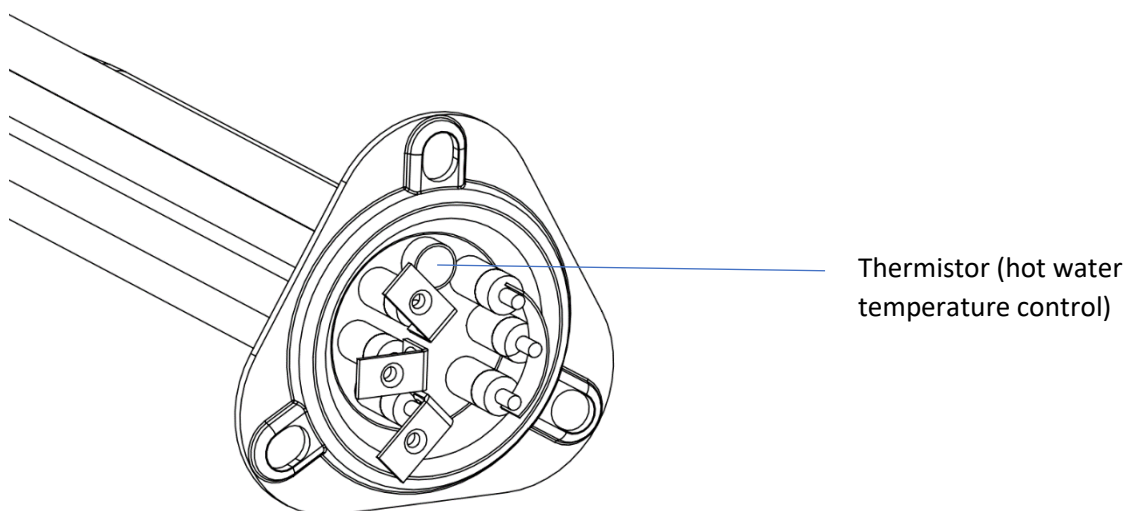
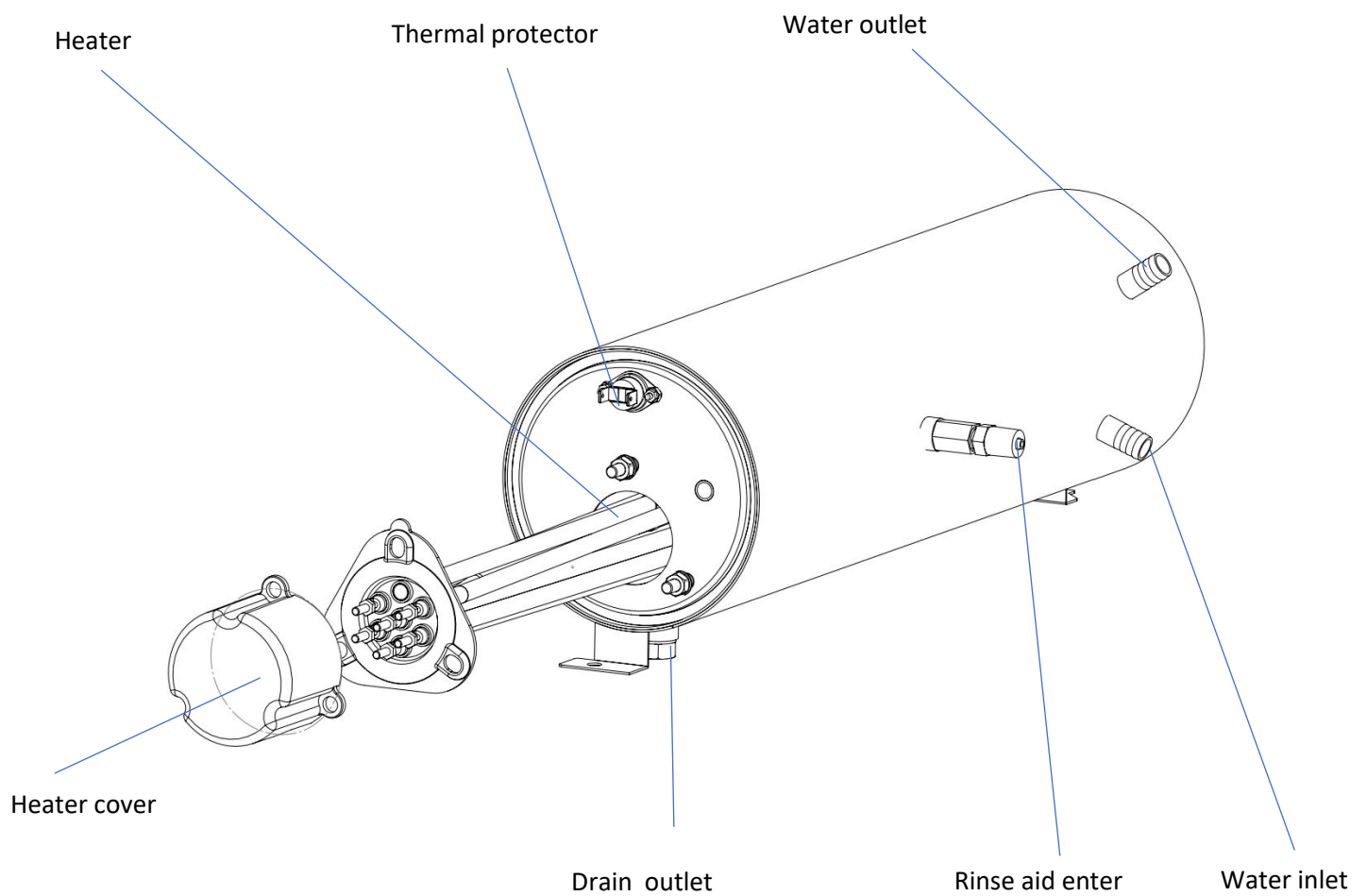
- The wash water is sprayed by the wash pump from the upper and lower wash spray arms into the wash compartment.
- The rinse water is sprayed by the rinse pump from the upper and lower rinse spray arms into the wash compartment.

3-General Information for Dishwasher :

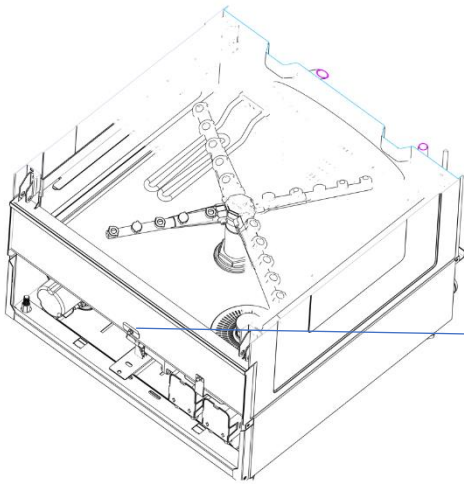




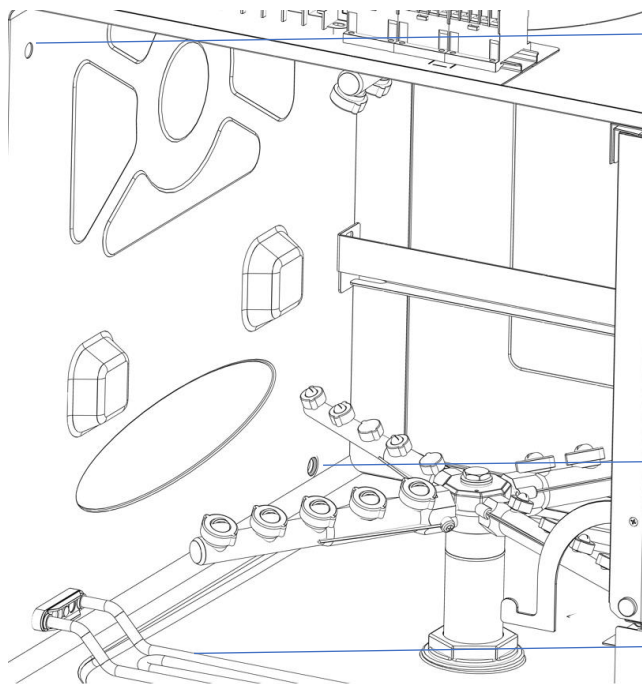
3.a-Internal Booster Tank



3.b Washing tank



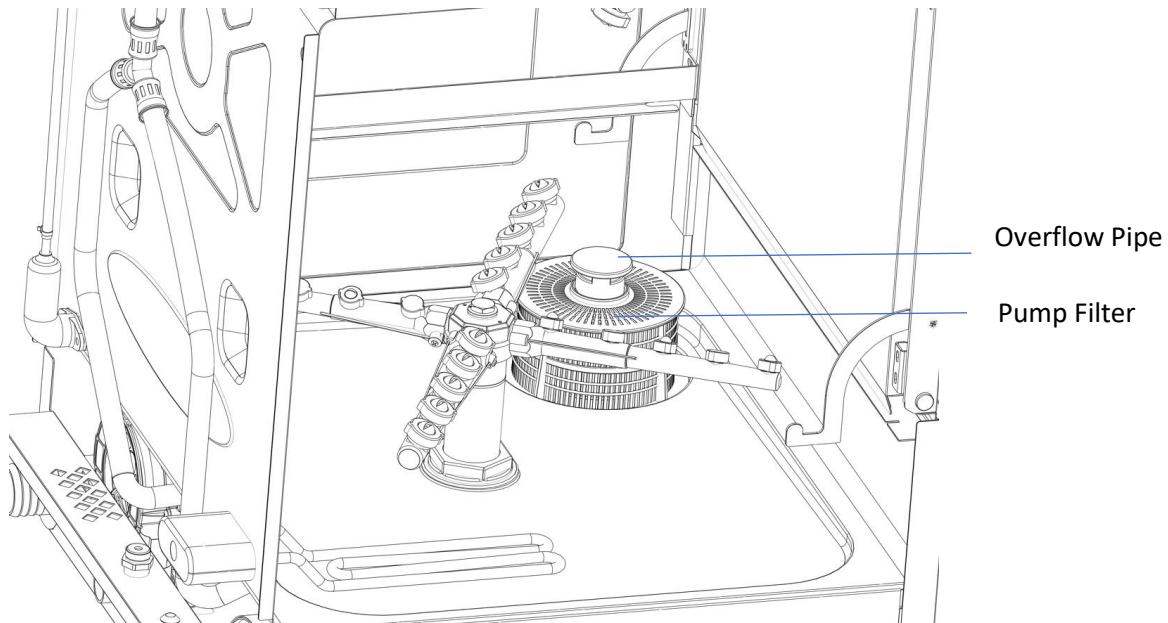
Thermistor (hot water temperature control)



Detergent feeding hole

Pressure Switch Sensing Hole

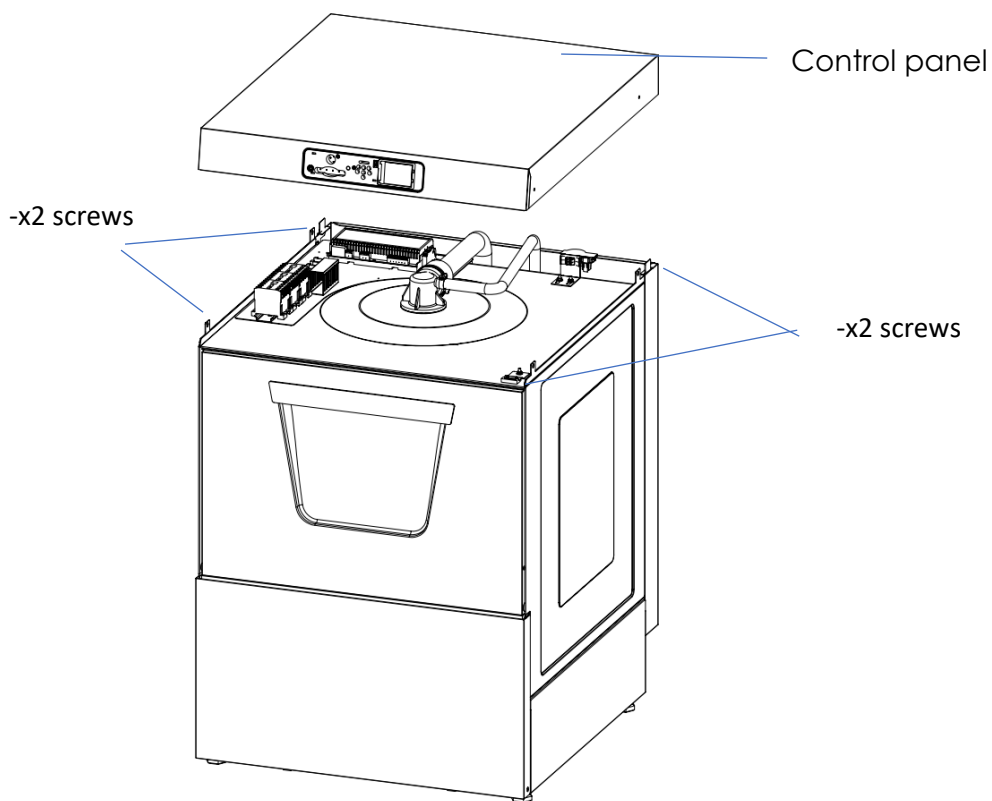
Washing tank heater



4- Removal and Replacement of Components

1. This unit should be diagnosed and repaired only by qualified service personnel to reduce the risk of death, electric shock, serious injury, or fire.
2. Turn off the power supply before servicing. Lockout/Tagout to prevent the power from being turned back on inadvertently.
3. When draining the internal booster tank, wait until the water temperature falls below 40°C to avoid possible burns.
4. To avoid possible burns and spills, be sure to drain the wash tank and internal booster tank and let the components cool before servicing.
5. When disassembling components that have been in contact with detergent, wear rubber gloves and goggles. Before starting disassembly, thoroughly read the detergent safety instructions. Contact with skin may cause irritation and contact with eyes may cause blindness.
6. When reassembling components, be sure to use new O-rings and gaskets.

4.a. Removal of control Panel



- 1) The control panel is secured with 4 screws. Unscrew and remove.
Note: Be careful not to tension the operation board cable.
- 2) To replace, reverse the above procedure.

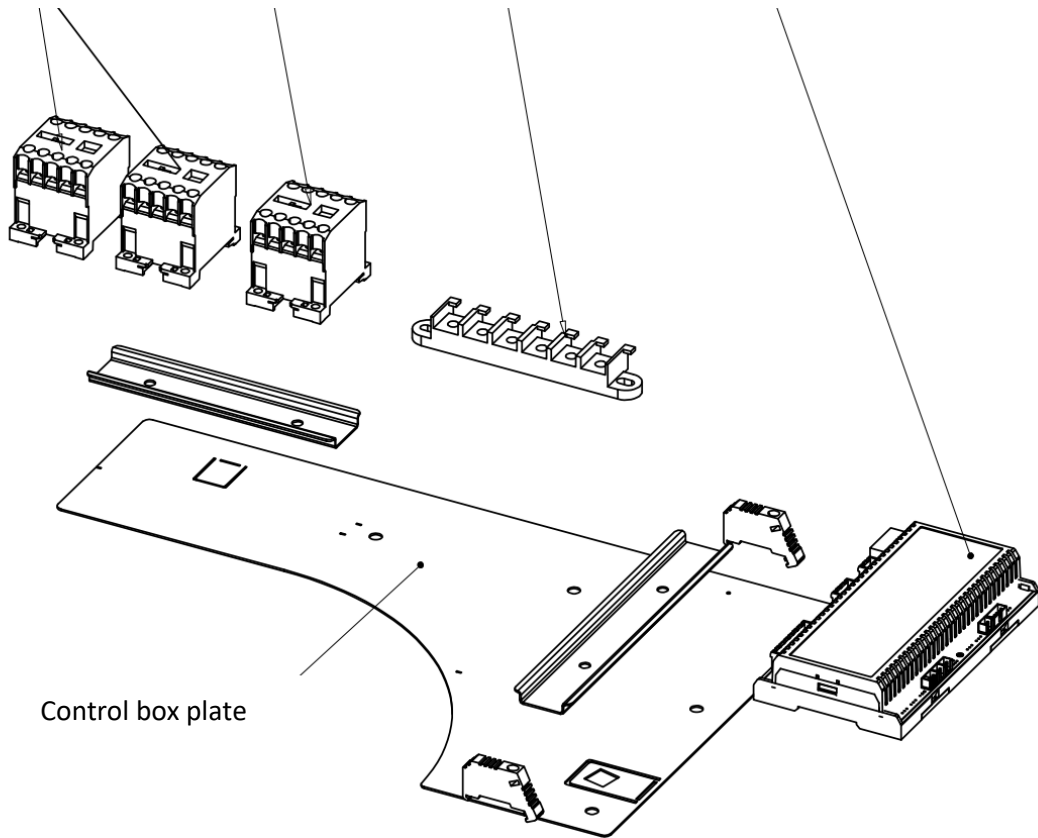
By Removing the control panel you can access

- 1) control box (contactors , electric inlet terminal,main card , screen panel)
- 2) magnetic switch
- 3) Pressure switch

Contactors

Electric inlet terminal

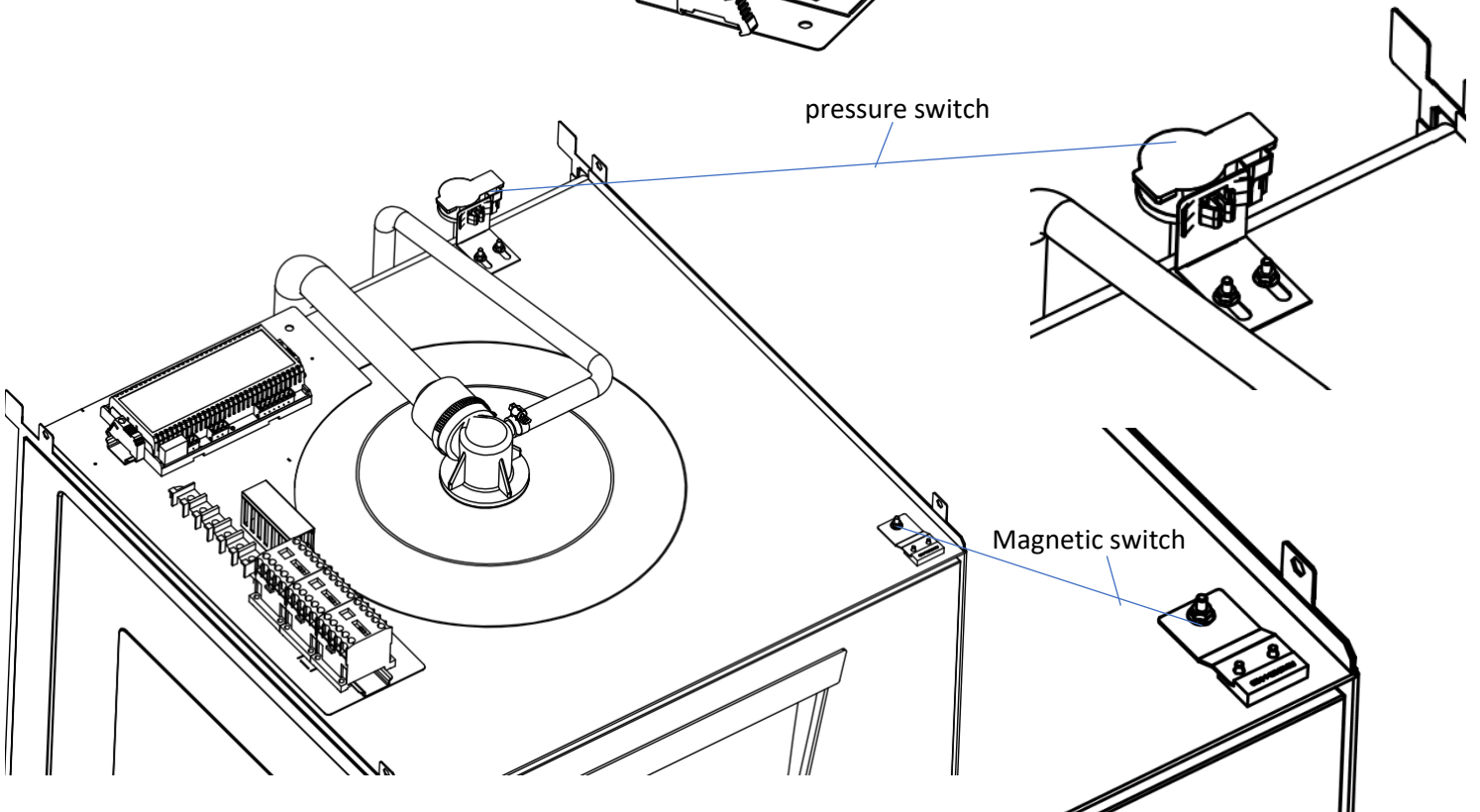
Main card



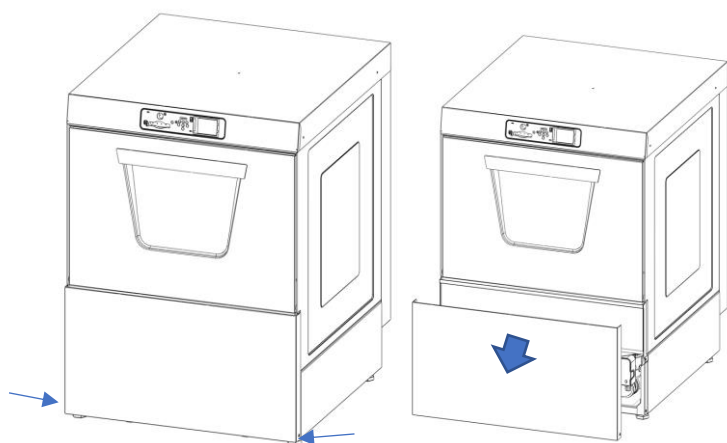
Control box plate

pressure switch

Magnetic switch



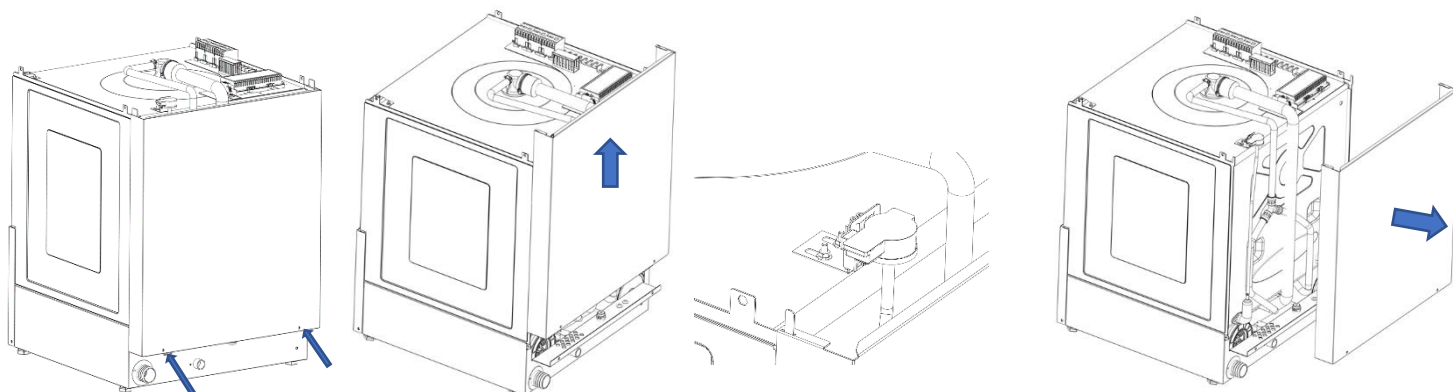
4.b. Removal of lower front panel



- 1) The lower front panel is secured with 2 screws. Unscrew and remove.
- 2) To replace, reverse the above procedure.

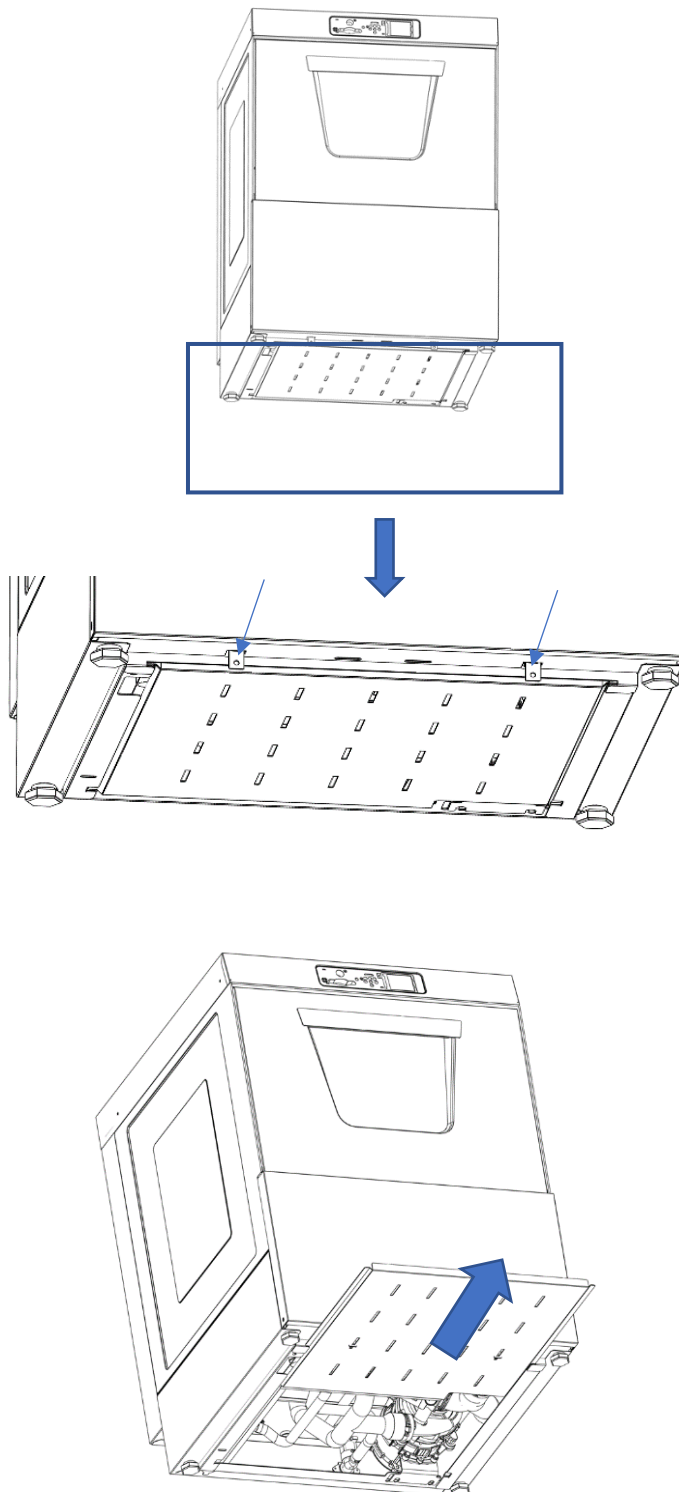
4.c. Removal of back panel

- 1) The control panel is secured with 4 screws. Unscrew and remove.
- 2) Back panel is secured with 2 screws. Unscrew them. Then lift the panel up and free it from the hook it attaches to the side panels.
- 3) Pull it towards you.
- 4) To replace, reverse the above procedure.



4.d.Lower Cower

- 1) Lift the machine's front side as it is seen on the image.
- 2) Press on the connection tabs to make free the lower cover.
- 3) Pull it towards to you.
- 4) To replace, reverse the above procedure.

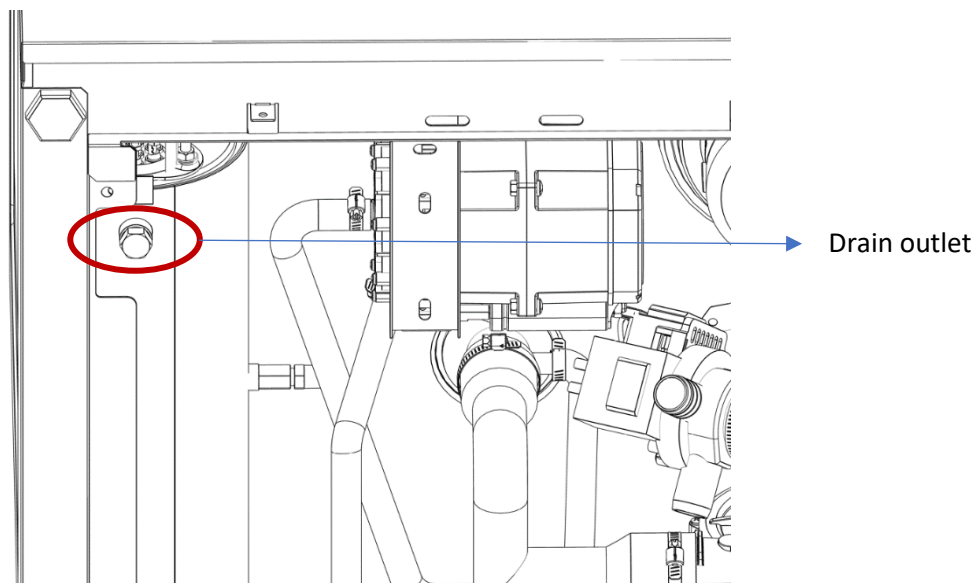


4e. Removal and Replacement of Internal Booster Tank

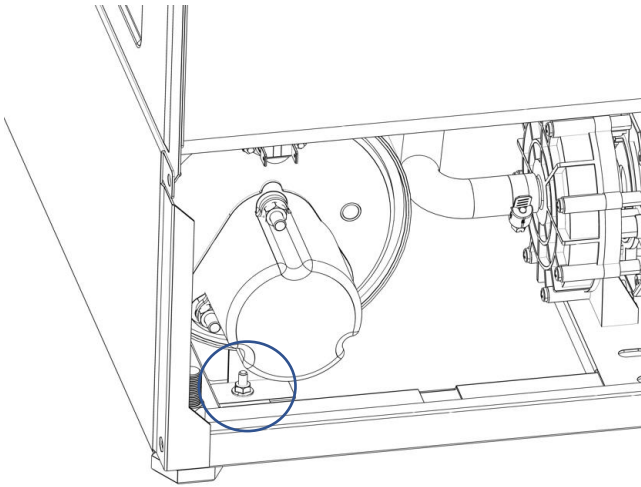
- 1) Turn off the power supply. Lockout/Tagout to prevent the power from being turned back on inadvertently.
- 2) Close the water supply line shut-off valve.
- 3) Remove the Lower Cover.
- 3) Drain the internal booster tank from the drain outlet (prepare a container)

WARNING

To avoid possible burns, allow the internal booster tank water temperature to fall below 40°C before draining.



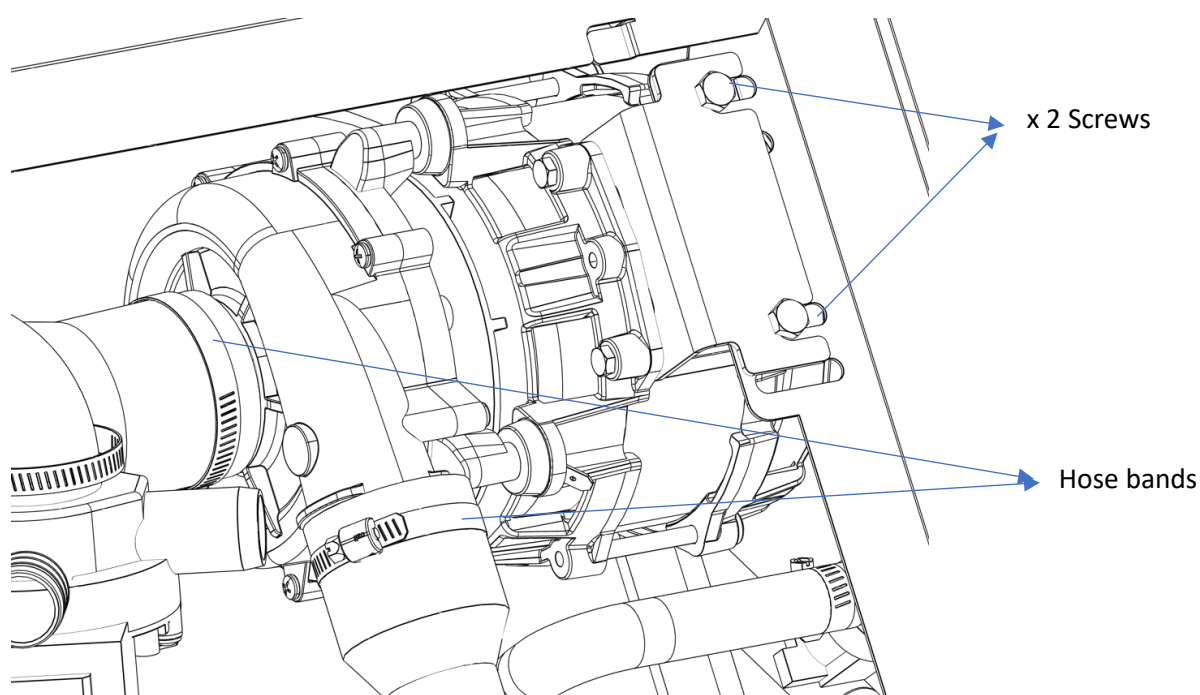
- 4) Remove the lower front panel.
- 5) Loosen the hose bands, and remove the water supply and overflow hoses.
- 6) Remove the heater , bi metal thermostat switch and thermistor wires.
- 7) Remove one nut. and pull out the internal booster tank.



- 8) To replace, reverse the above procedure.
- 9) Make a trial run, and check for water leaks.

4.f. Removal and Replacement of Wash Pump Motor

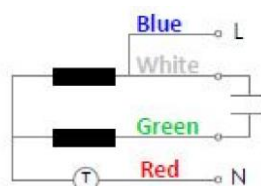
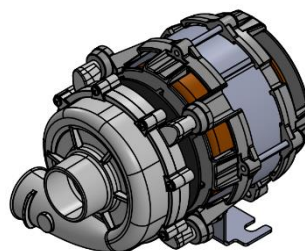
- 1) Turn off the power supply.
- 2) Pull out the drain pipe to drain water from the wash tank.
- 3) Remove the lower cover.
- 4) Disconnect the washing pump wires.
- 5) Loosen the hose bands, and remove the suction and discharge hoses.
- 6) Remove the two screws, and disconnect the wash pump motor.



- 7) To replace, reverse the above procedure.
- 8) Make a trial run, and check for water leaks.

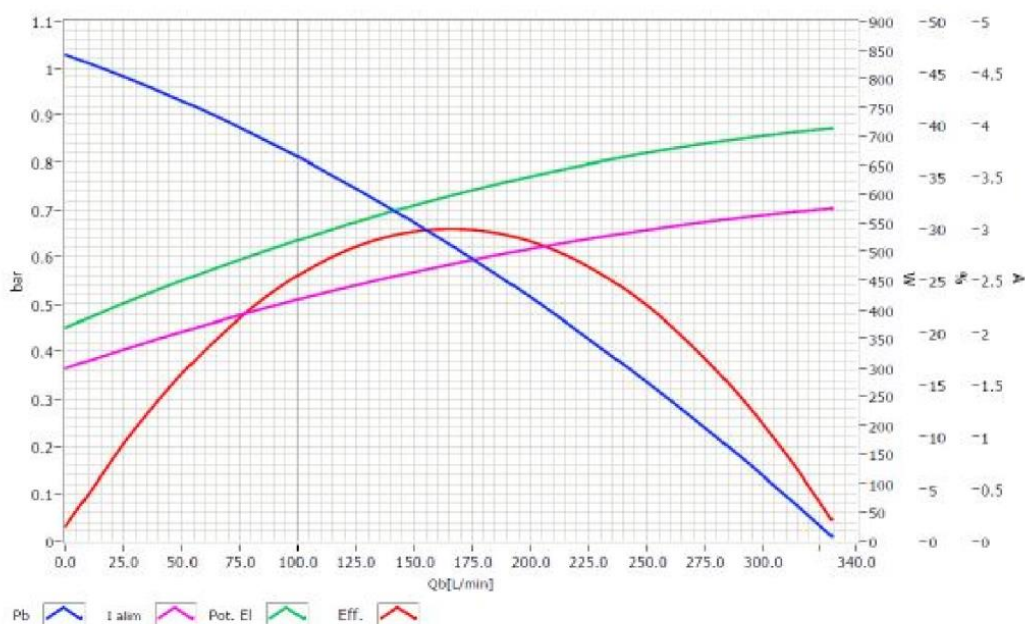
Washing Pump technical info :

DATI TECNICI / TECHNICAL DATA		
Power supply		monofase single-phase
P1 input	[kW]	0.66
Voltage	[V]	230
Frequency	[Hz]	50
Current	[A]	2.9
Speed	[RPM]	2800
Capacitor	[uF]	12.5
Insulation class		F
IP protection		IP00
Duty		S1
n° poles		2
Thermal protection	[°C]	160 S05-160.05 THERMIK



CONNESSIONI / CONNECTIONS		
Blu/Blue	350mm	
Rosso/Red	350mm	
Bianco/White	350mm	
Verde/Green	350mm	

NB: All fastons with protection covers

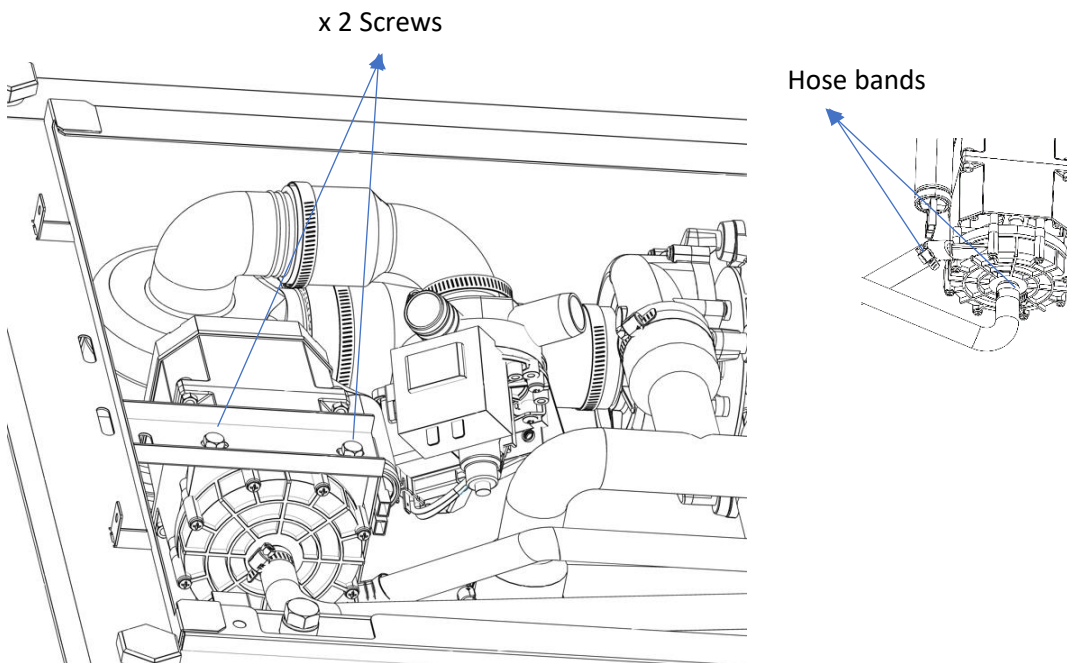


Test eseguito a 230V 50Hz con acqua pulita a 20°C

Performance test at 230V 50Hz with clean water at 20°C

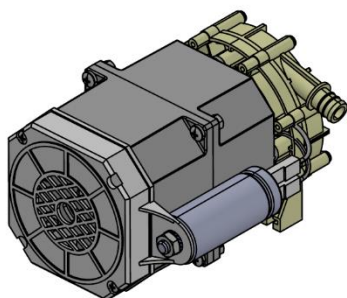
3.g. Removal and Replacement of Rinse Pump Motor

- 1) Turn off the power supply.
- 2) Pull out the drain pipe to drain water from the wash tank.
- 3) Remove the lower cover panel.
- 3) Disconnect the rinse pump wires.
- 4) Loosen the hose bands, and remove the hoses.
- 8) Remove the two screws , and disconnect the rinse pump motor.
- 9) To replace, reverse the above procedure.
- 10) Make a trial run, and check for water leaks.



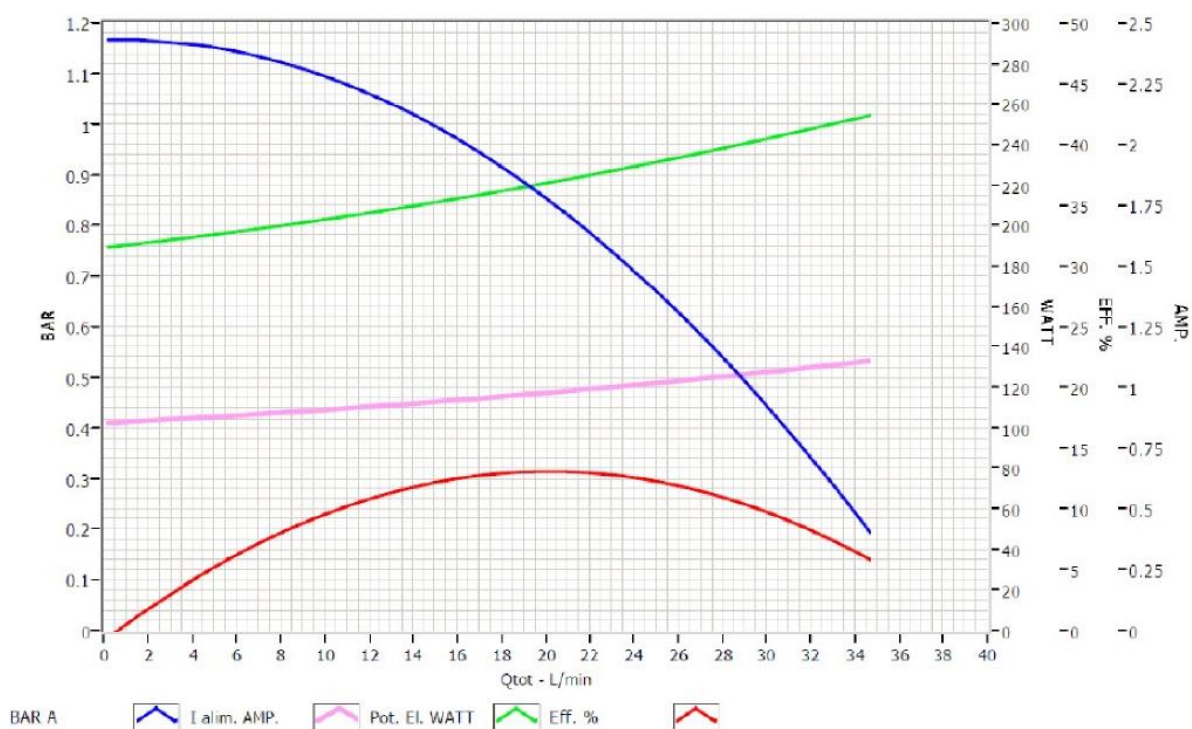
Rinsing Pump technical info :

Technical data R63.T33PRSM												
Ø Inlet (mm)	Ø Outlet 1 (mm)	Ø Impeller (mm)	Power (kW) - (HP)	Voltage (V)	Current (A)	Frequency (Hz)	(rpm)	Insulation Class	Protection Class	Duty	Thermal protection	Weight (kg)
15	14	90 (Closed)	0,25 - 0,33	230±10%	1,25	50	2800	F	IP20	S3	150±5 °C	3,1

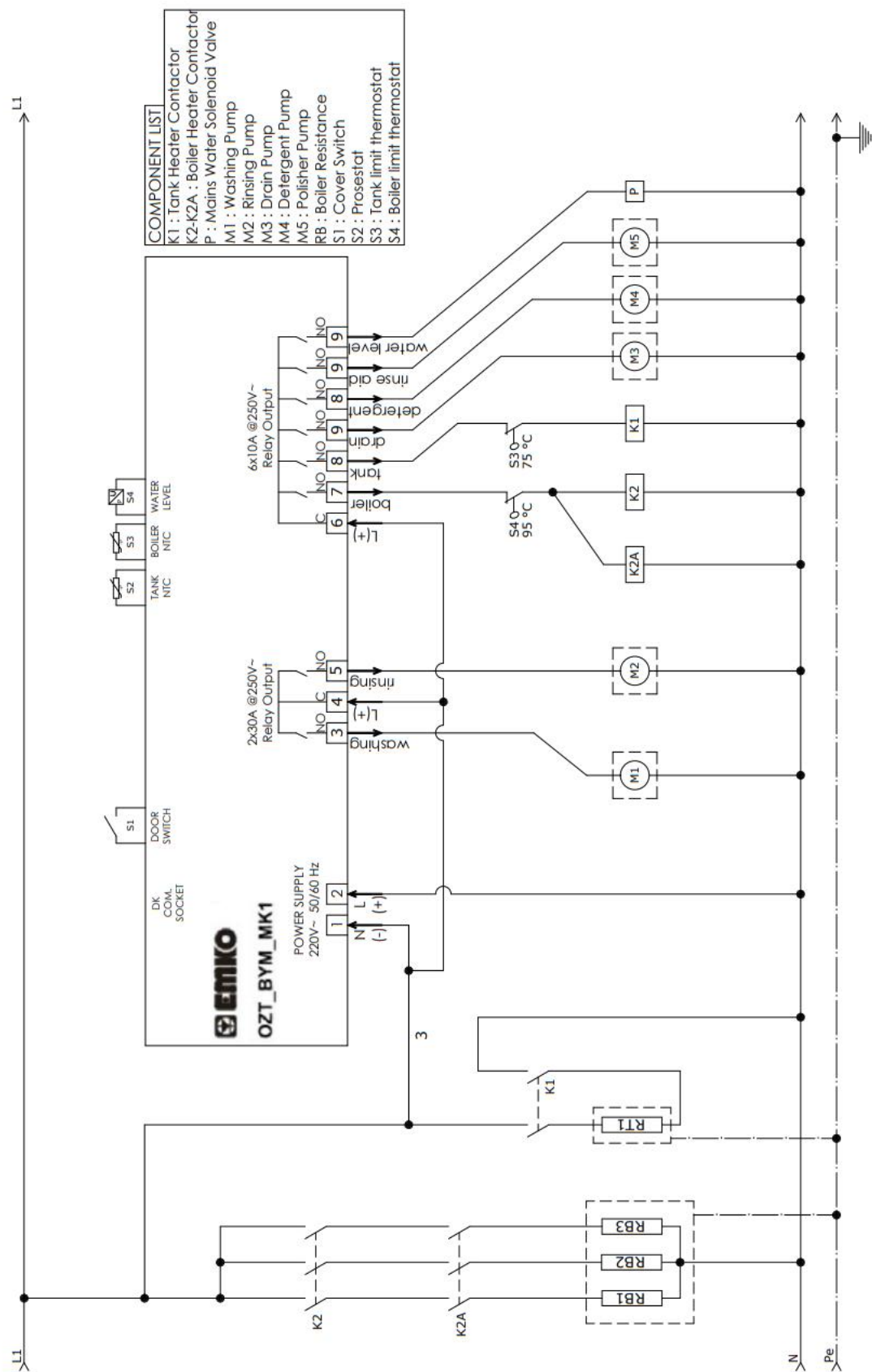


Connessioni Connection			
Rosso Red	L	L=350	
Blu Blue	N	L=370	
Bianco White	Condensatore Capacitor	L=200	
Verde Green		L=200	
Giallo-verde Yellow-green		L=370	

Condensatore Capacitor
8 µF ±5% 425V 10000h cl.B 475V 3000h cl.C P2



5. Electrical Diagram (Touch type) :



6. CLEAN-UP AND MAINTENANCE

6.1 Periodical Maintenance and Clean-up

Daily maintenance should be carried out by people informed about the safety instructions as following, after disconnecting power supply and water connections.



6.1.1 Daily Maintenance:

Daily maintenance should be carried by the user. In order to clean up the machine within the day following should be carried out periodically after the washing operation:

1. Wash and rinse arms should be disconnected and the scraps remaining in those arms should be removed away using pressure water, brush, fine wire etc. and reinstalled back to their places.
2. Scraps remaining in the washing tank should be removed and cleaned up. (Do not carry out washing operation without installing scrap filters)
3. If the period between two washing operations exceeds "5 Hours" water outlet pipe should be disconnected and all of the water should be drained out fully.
4. Suction filter should be disconnected and cleaned up with plenty of water.
5. Inside of the tank should be cleaned up with a sponge or cloth and plenty of water.
6. After cleaning operation is finished suction filter, water outlet pipe, scrap filters and washing and rinsing arms should be reinstalled.
7. Scale formed on the carriers of the device after certain period of use, must be wiped away. If it is not cleaned up for a long time, scale formed on the carriers of the device, hinder the free movement of the hood.

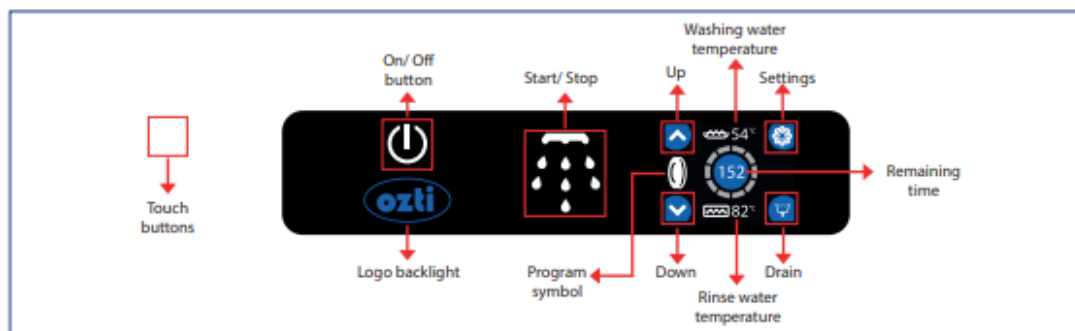


6.1.2 Periodical Maintenance:

Periodic maintenance should be carried out by the user at least once in a month, after the cleanup and maintenance that must be conducted after each washing operation is completed. This should be done when the machine is ready for operation and before the dishes are set up in the machine. After ½ kg's of decalcination substance is added to the washing tank, the machine is operated for ½ hours so that it cleans itself up. Afterwards the water within the machine is disposed and then refilled with fresh water. This time the machine is operated without any additive substance only with water for ½ hours and after the water inside is disposed, the machine will be ready for operation.

If the device is not used for long period of time, you must drain the water left inside the boiler. For this purpose, let the water drain out after opening the tap (boiler tank tap) at the lower part of the devices body. Other wise, water staying inside too long, may harm the resistances.

7- Touch Quick user manual



- ON-OFF**
 Press and hold for 3 seconds to turn on the machine when the On/Off button illuminates white.
- FILLING**
 Drops begin to glow blue and move below to up. Blue fields show water filling amount.
- HEATING**
 Red drops move below to up. Indicates that the tank and boiler water temperature in this product is heating up. Red fields show water heating temperature.
- READY TO WASH**
 Machine is ready to use when the white drops illuminated. Up and down arrows are for washing program selection.
- WASHING**
 Green drops move from left to right, indicating that the machine is washing. Tank temperature, Remaining time for washing, Boiler temperature.
- DRAIN**
 To start the drain, the drain button is pressed. The drain plug is removed. Blue drops move up and down while draining. After the drain has started, the start-stop button is pressed to cancel it.