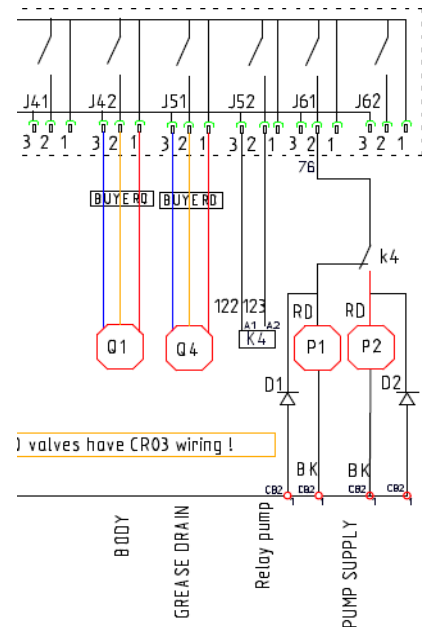
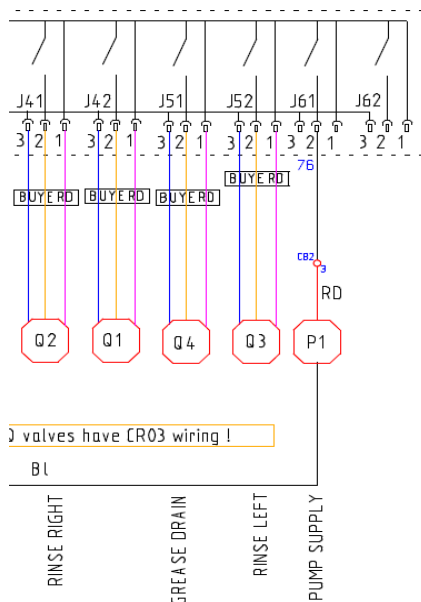
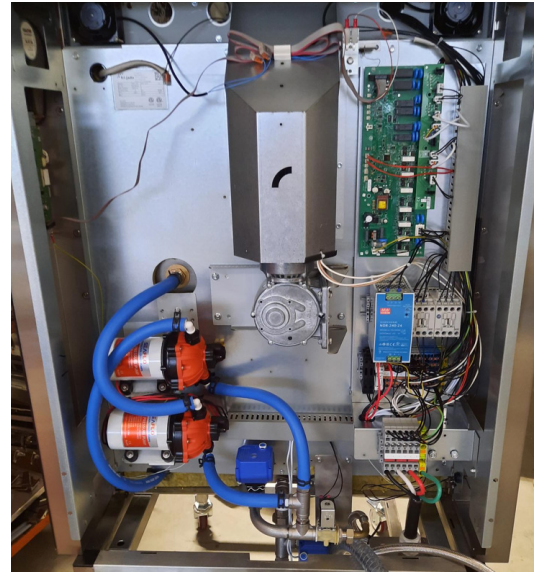
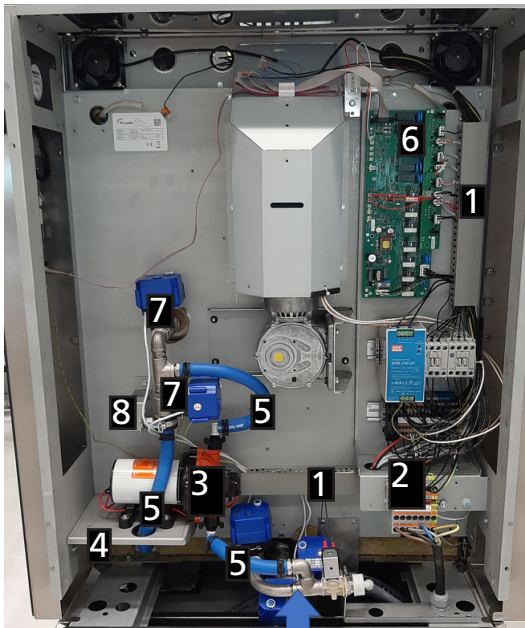


## Double cleaning pump TDRac 9310098s

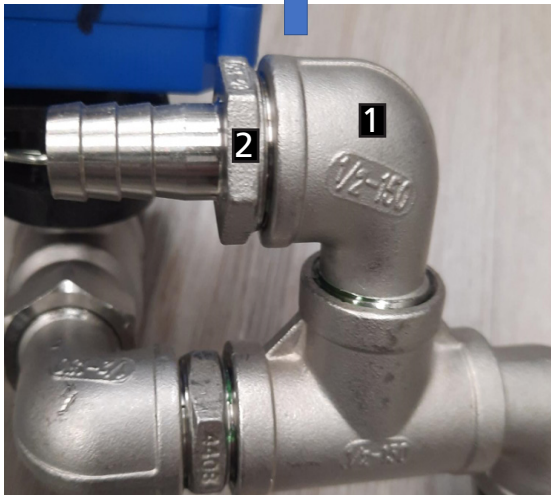
This document describes the steps to take to convert a TDR8 AC from a single pump to a double pump system by using service kit 9310098S.





### Step 1

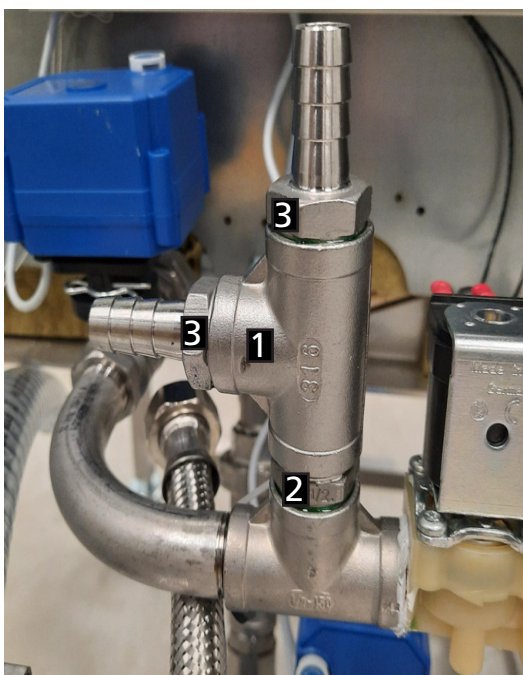
- Disconnect the oven from the power supply!
- Close the water supply to the oven.
- Remove left and right side cover
- Remove covers cable trays (1) 2x
- Disconnect pump wires (rd/black) from terminals (2)
- Remove pump (3)
- Remove pump support (4)
- Remove blue hoses (5) 3x
- Disconnect valve wire from PCB (6) 2x
- Remove the complete valve assembly (7)
- Remove support valve assembly (8)



### Step 2

- Remove elbow (1) and hose barb (2)  
(this picture shows the valve assembly of a stacked unit)

\* If required remove water valve assembly from the oven and use a vice or other tool to hold the assembly fixed.



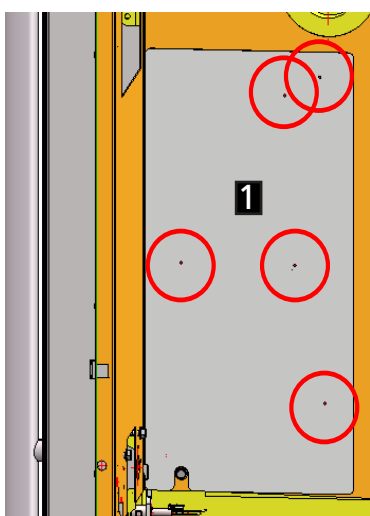
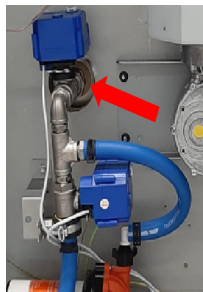
### Step 3

Install 1/2" T-piece (1), double nipple (2) and hose barbs (3) as shown. (use teflon tape or loctite thread sealant)



#### Step 4

Mount one 1/2" Hose Barb like shown (use teflon tape) on former position of the valve assembly on left side of the rotor motor.



#### Step 5

Use the grey metal marking template (1) to determine the position (5 in total) of the holes for mounting the pump bracket.



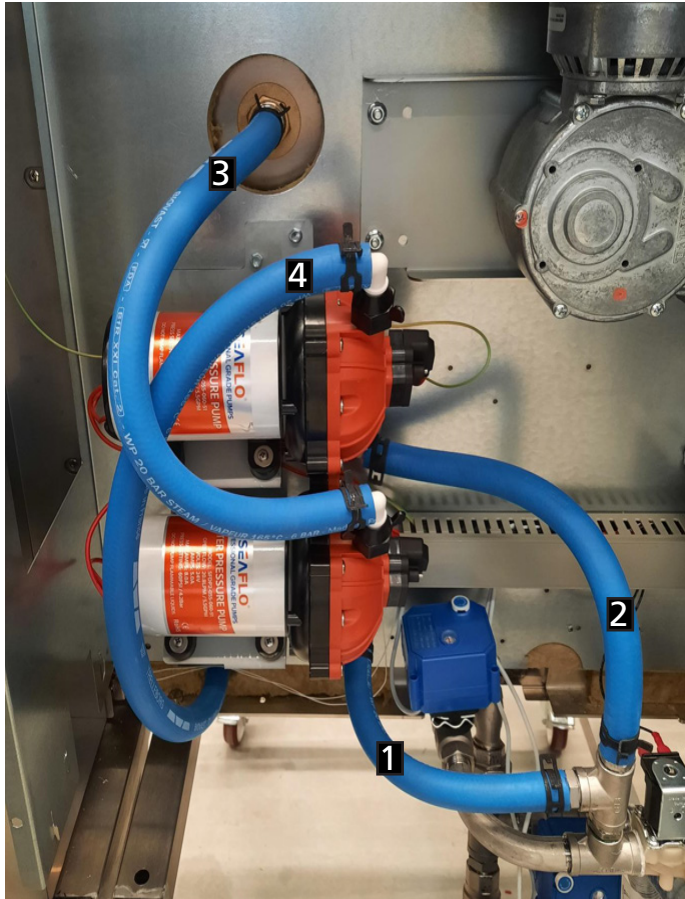
#### Step 6

Mount the pump bracket with self-drilling & tapping screws supplied in the kit on the previous step marked positions.



5x





### Step 7

Mount the 2 new pumps on the bracket using the 8 M4 bolts and washers from the kit. (hand tight, pump feet is made of rubber)

### Step 8

Place elbow couplings delivered with the pump on each pump connection. (tighten firmly when the hoses are in place)

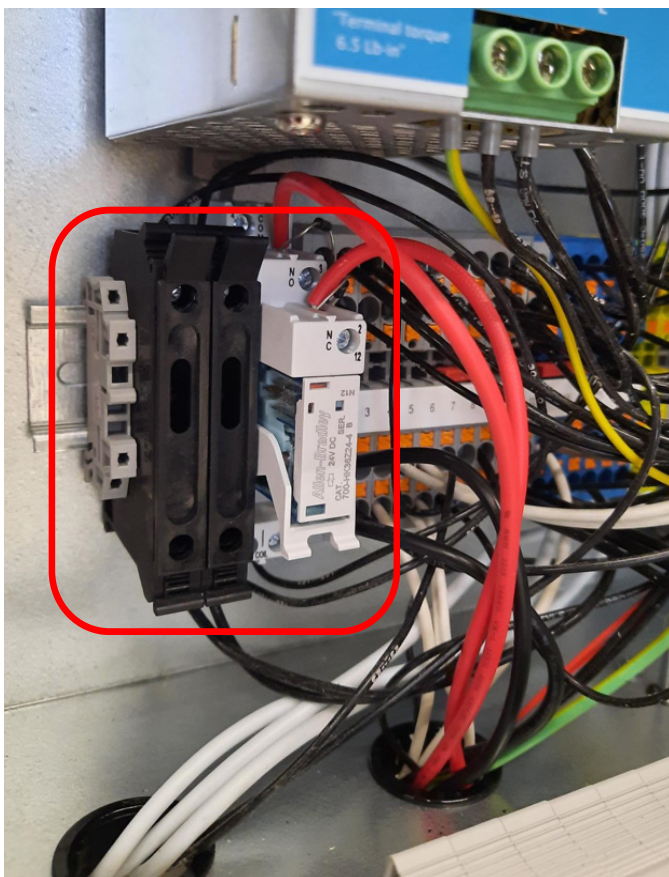
### Step 9

Place the 4 blue hoses like shown on the picture. Use the 8 new hose clamps from the kit.

Tube 1= 9"	(23 cm)
Tube 2= 12.5"	(32 cm)
Tube 3= 17"	(43 cm)
Tube 4= 75"	(191 cm)



Move the two fuse holders (and optional relay from drain pump, not shown on this picture) to the left to create space for placement of the new relay from the kit next to the grey terminal #1.

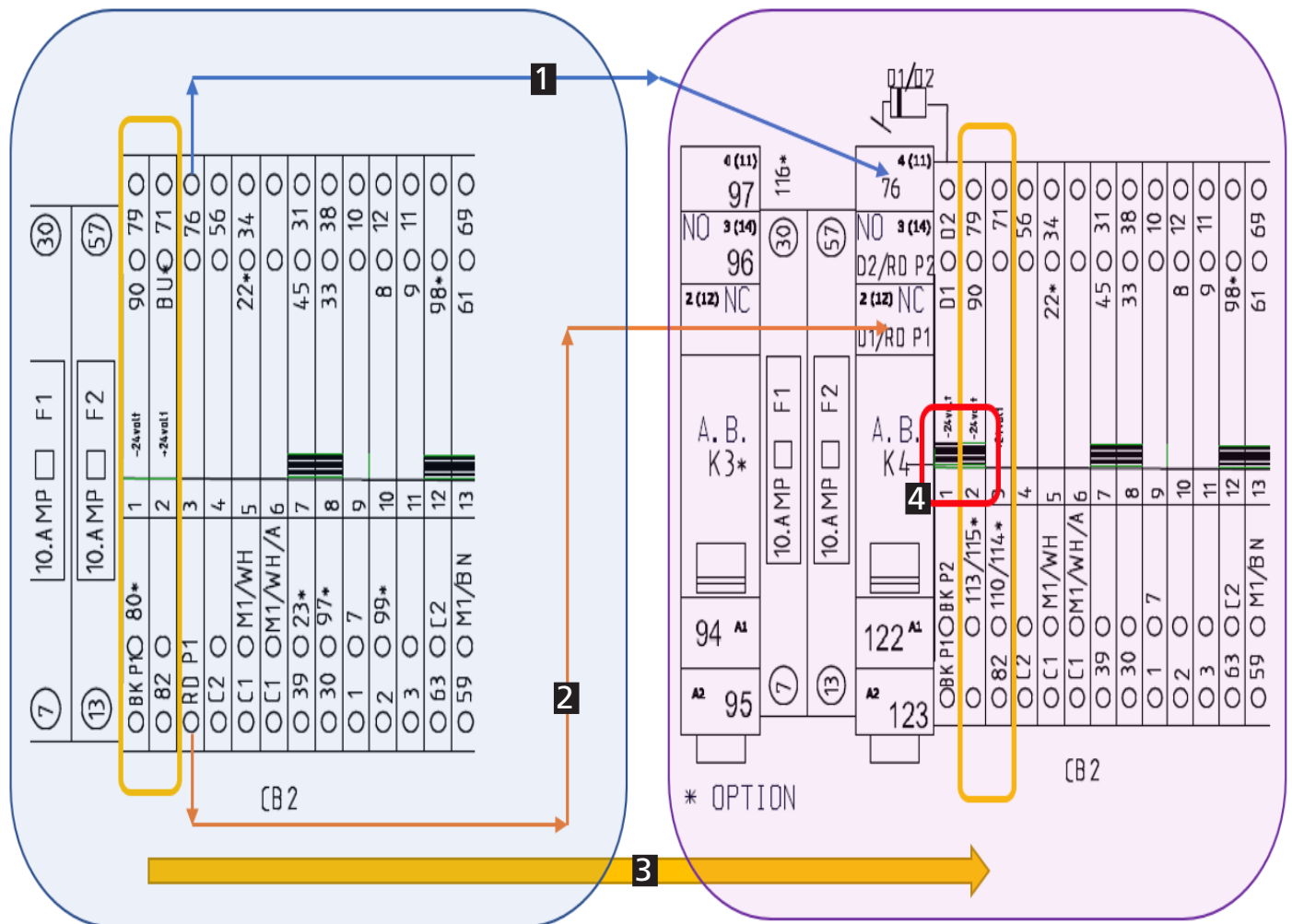


## Step 11

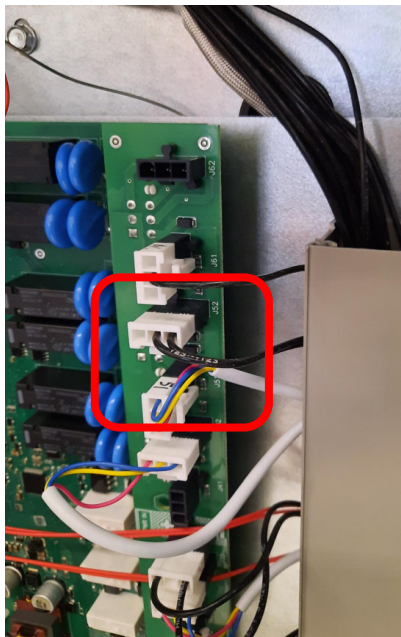
- Remove wire 76 from existing position and fix at #4 (11) contact (COM) of the K4 relay. (1)
- Remove wire RD P1 from current position and fix at the NC contact of the relay. (2)
- Move wires from terminal 2 one position to the right to terminal 3 which is free now. (3)
- Move wires from terminal 1 one position to the right to terminal 2 which is free now. (3)
- Push in the bridge provided in the kit to connect terminal 1 and 2. (4)

One pump connections

Two pump connections

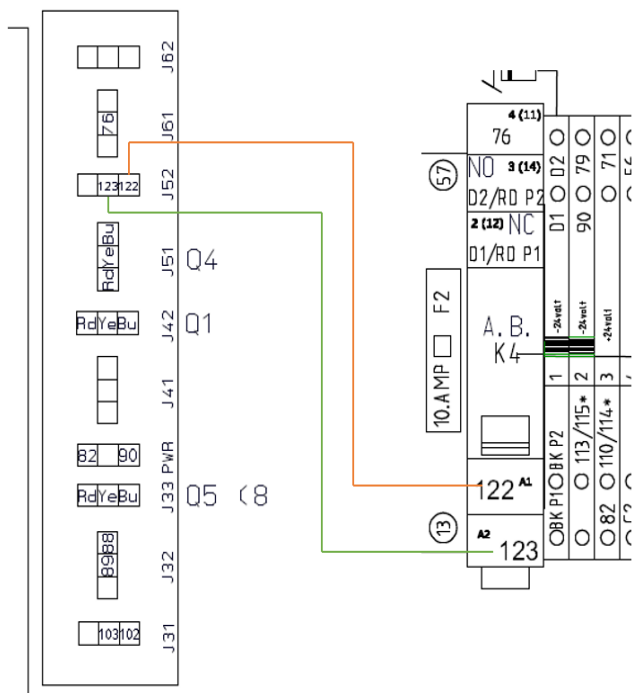
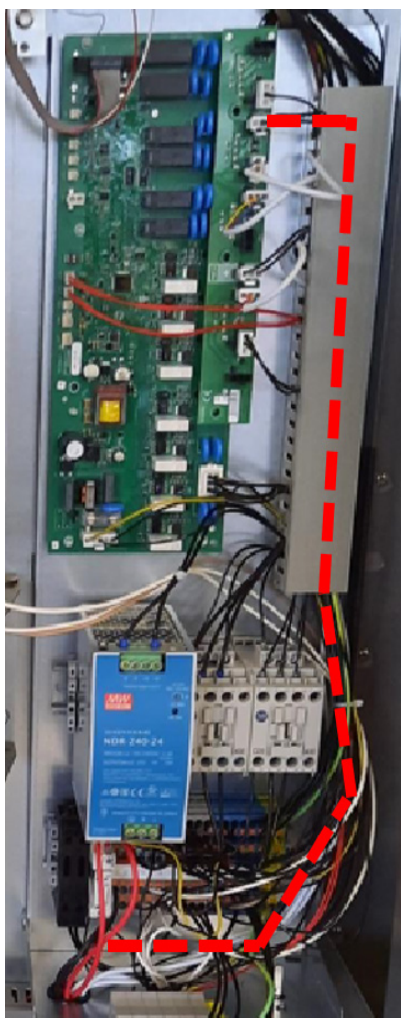


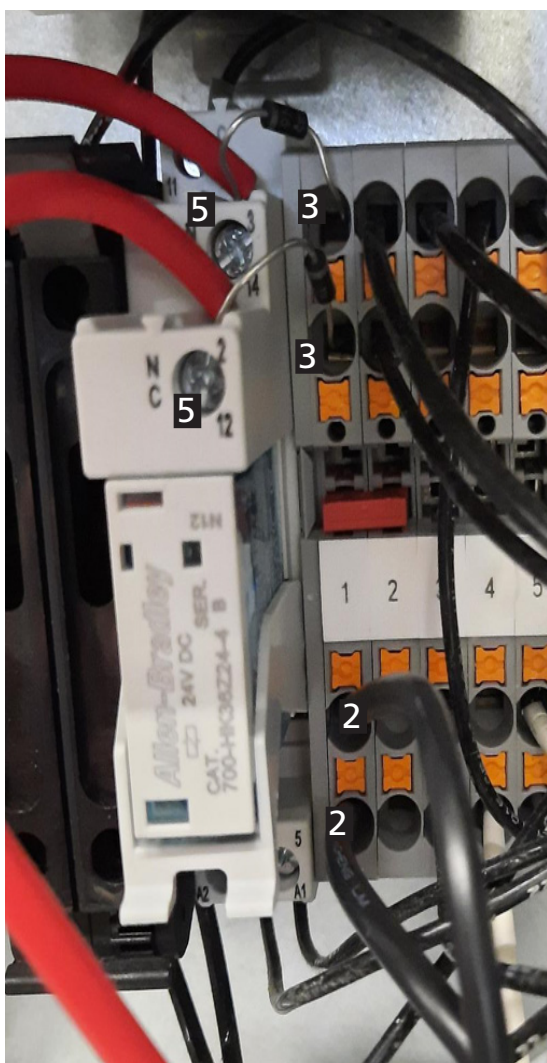
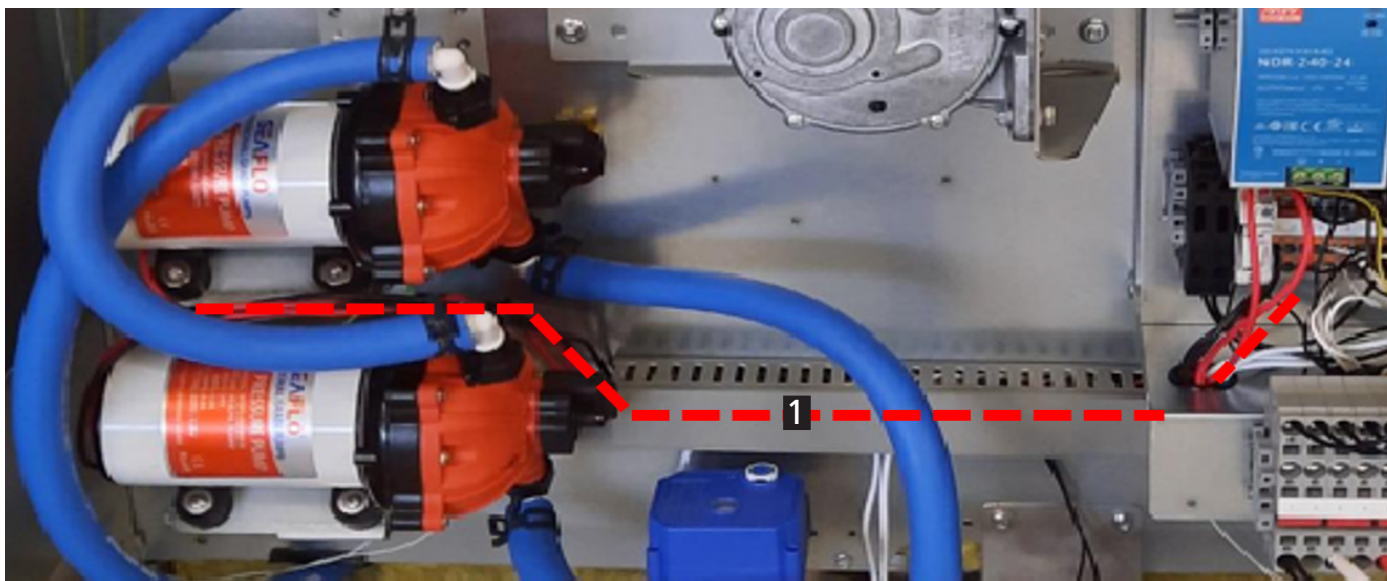




## Step 12

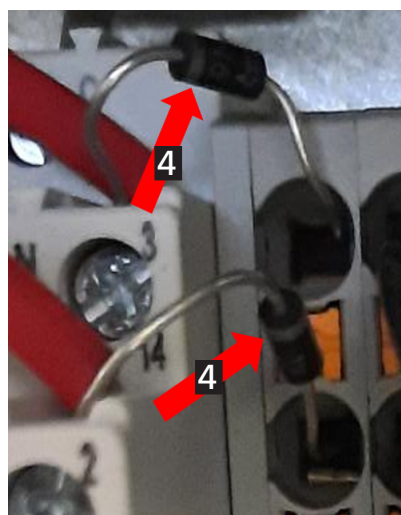
- Plug in the two wire cable with white 3 pin connector in output J52 on the output board. (1)
- Lead the wires trough the cable tray towards the relay.
- Connect the two wires to the A1 and A2 contact of the new relay.





### Step 13

- Lead the two red and two black wires in the cable tray from the pumps towards the terminal and relay. (1)
- Connect the two black wires from the pump to the two bottom positions of terminal 1. (2)
- push in the two diodes provided in the kit in the two top positions of the number 1 terminal. (3)
- Make sure the grey line on the diode is on the relay side! (4)
- Connect the two red wires from the pumps together with the other end of the diode to the NO & NC contact of the relay. (5)

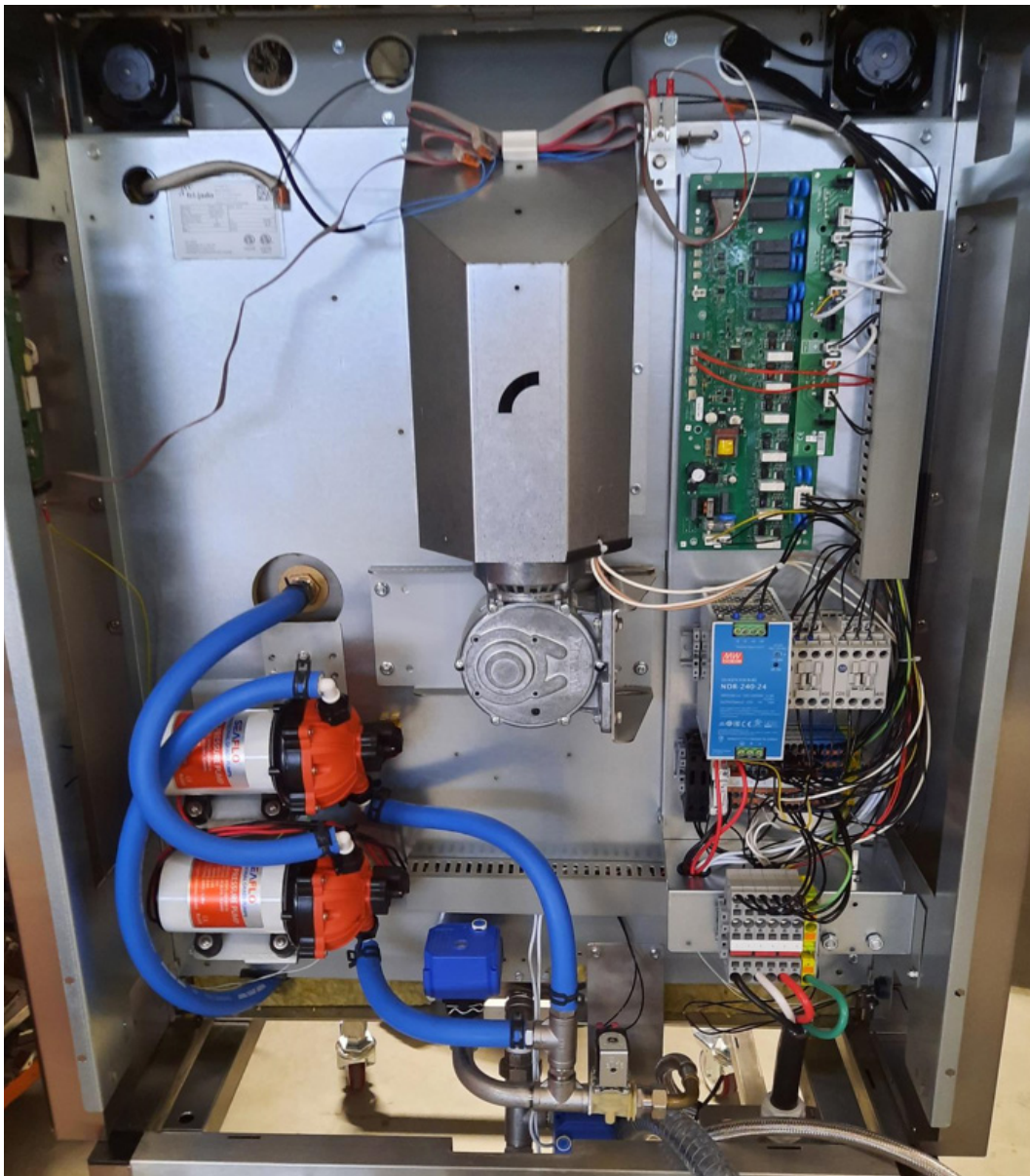




#### Step 14

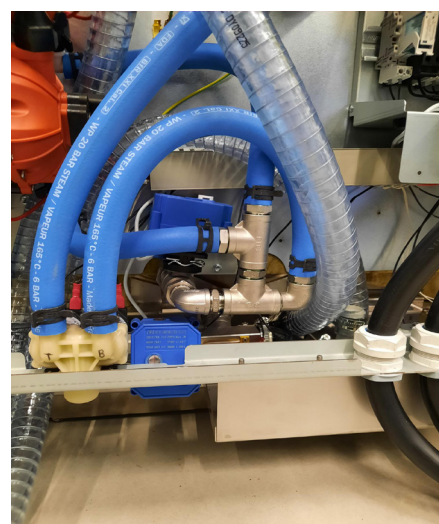
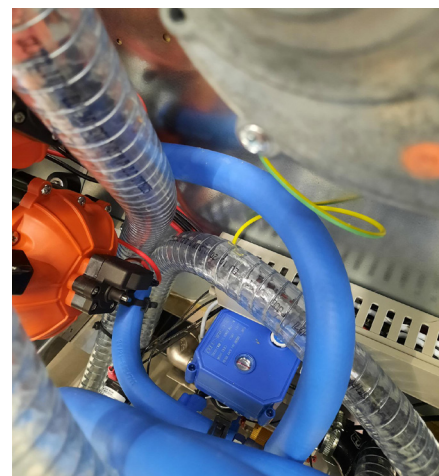
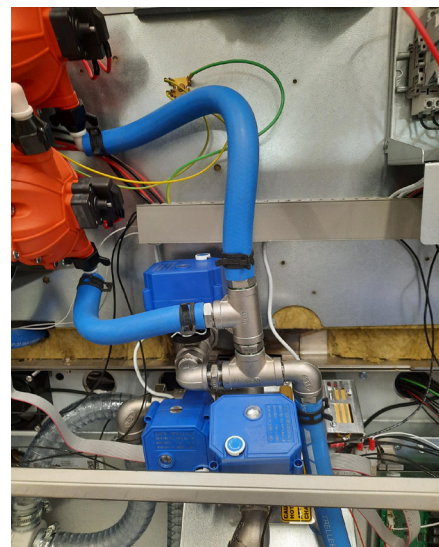
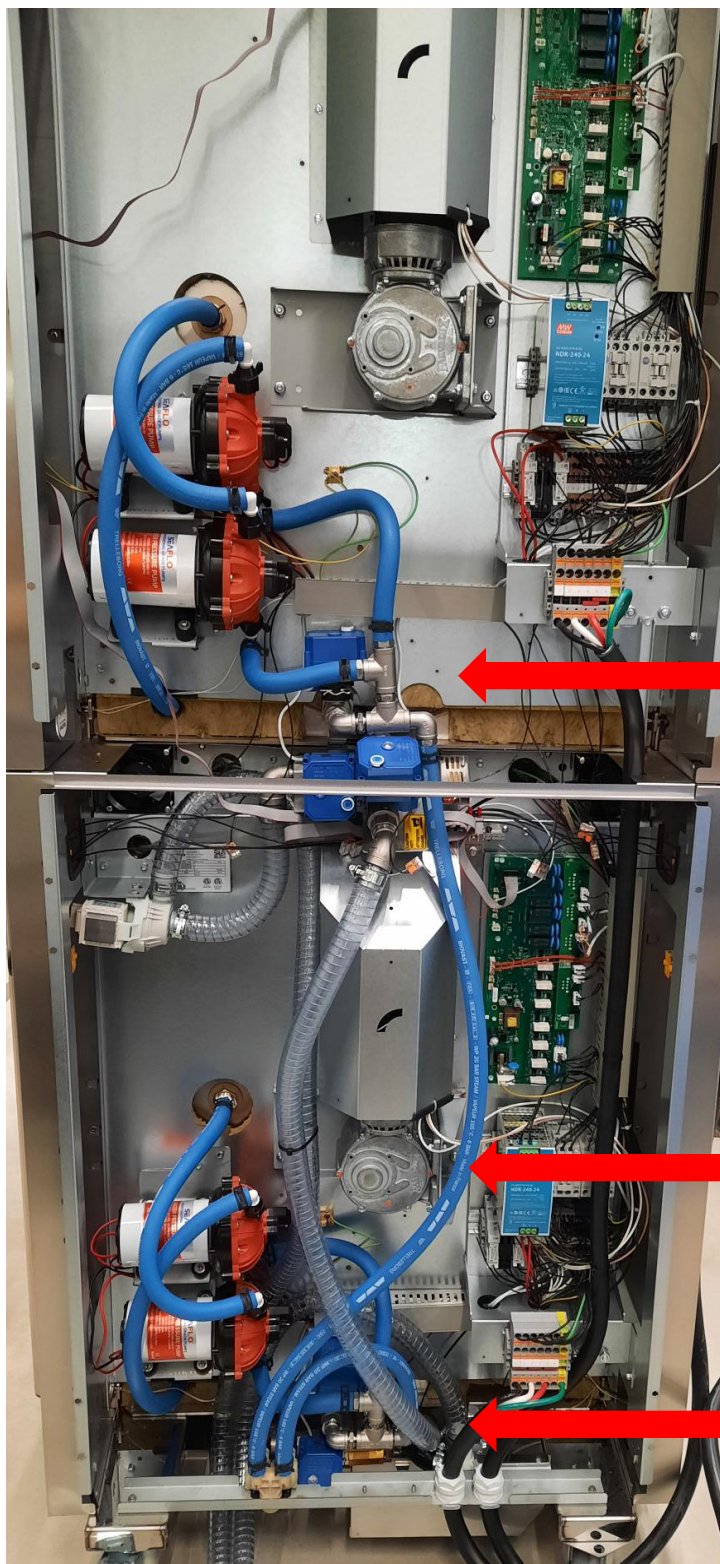
- Check if all connections/steps have been done correct
- Reconnect to the power supply and open the water supply
- Run a clean cycle to check the functions and check for leakages
- If all is OK place back the side covers

Total overview converted single unit.





Total overview converted stacked unit.



For this conversion on the controller side nothing has to be done.  
(No software update required, no settings have to be changed)

Output Q3/J52 (spray left) will now operate the pump relay to switch between pumps.  
Output Q2/J41 (spray right) is not used anymore  
Output K6/J61 (Water pump) activates power to the Pump relay

**End of instruction**



