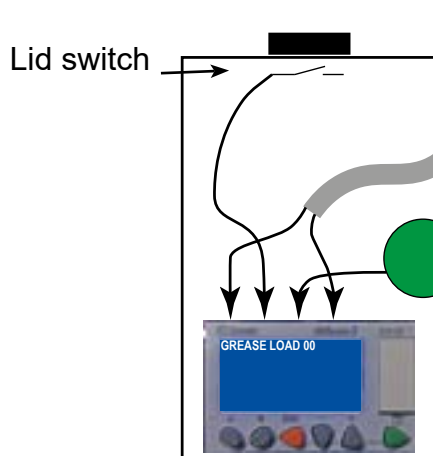
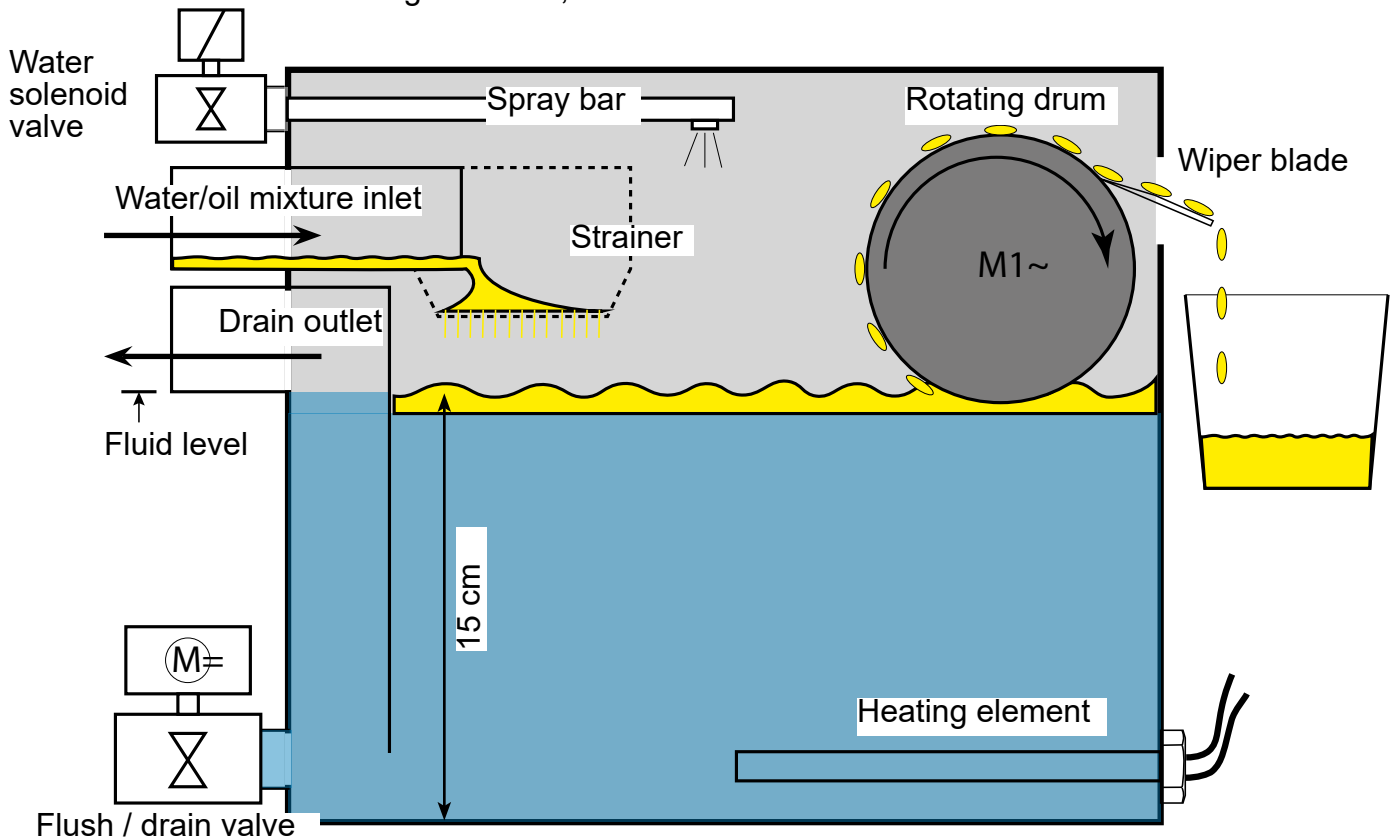


## WORKING PRINCIPLE

- Water and oil mixture comes from the Multisserie and falls in a strainer.
- Filtered fluid comes in the tank.
- The oil floats on the water.
- The heater keeps the water on temperature to make sure that also the pork grease stays fluid.
- The oil sticks to the rotating drum and the wiper blade wipes the oil off the drum. This is called skimming further in this document.
- During the skimming proces, the fluid level will go down.
- The spray bar puts in extra water and the maximum level is determined by the bottom side of the drain outlet.
- One time each day, the tank is flushed for 30 seconds to get rid of the sediment of the cleaning agent from the Multisserie. The level will drop for  $\pm 5$  cm
- One time each week, the tank is flushed for 60 seconds. The fluid level drops 10 cm.
- Flushing happens at 22:00, or when the Multisserie cleaning signal is continuously present for 45 minutes.
- At 24:00 or when switching mains off, the PLC resets all cumulative values.



To control this proces, 2 signals come from the Multisserie. These are the cooking signal and cleaning signal.

When opening the lid, all outputs from the PLC will be disabled.

The push button will pause the skimming proces for 5 minutes. The oil container can be emptied in this time.

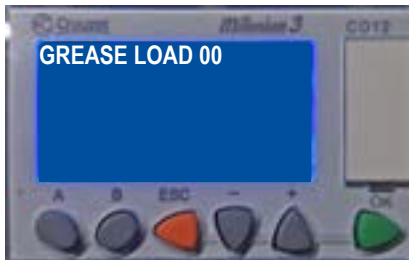
An extra skim cycle can be activated by pushing this button for 5 seconds.



The 4 inputs are

- i-1 Multisserie (MTS) cooking signal
- i-2 Lid switch
- i-3 Skim pause button (or force skim)
- i-4 MTS cleaning signal

MTS aan het koken



-- GREASE LOAD 01  
 -- OVEN ON: xx MINS  
 ↓  
 -- OVEN ON: 60 MINS

## The Multisserie cooking signal

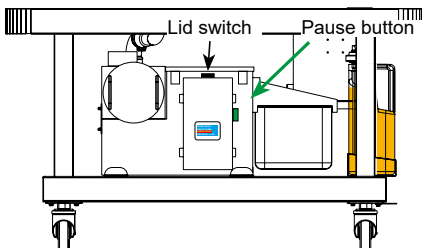
➔ Switch ON the Multisserie

➔ Open the door and push the rotor button.

On the PLC, the message “--OVEN ON: xx MINS” appears

It is also possible to activate the rotor in the output test of the service menu of the Multisserie.

Therefore go to <Settings> ➔ < Service> (4878) ➔ <I/O test> ➔ <MFMB outputs > ➔ <X12 Spit/Rotor> ➔ set to “1”



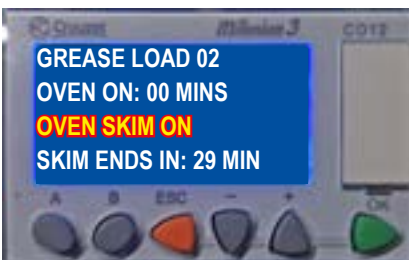
## The lid switch

The lid switch will disable all outputs, if opened.

## The Skim pause button.

➔ Push the green button for 5 seconds.

The message “OVEN SKIM ON” appears



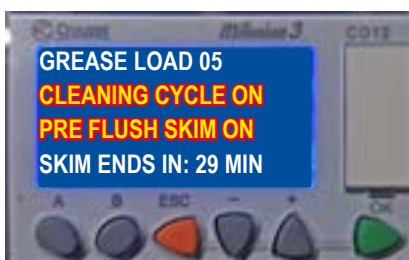
## The Multisserie cleaning signal.

➔ Start a rinse program

As soon as the drain valves comes in position, the message “CLEANING CYCLE ON” appears.

It is also possible to activate the drain valve in the output test of the service menu of the Multisserie.

Therefore go to <Settings> ➔ < Service> (4878) ➔ <I/O test> ➔ <MFS1 outputs > ➔ <X3 X4 3way valve > ➔ set to “1”





The 4 outputs are:

Q1 Skimmer	(drum motor)
Q2 Spray bar	(solenoid water valve)
Q3 Flush valve	(motor valve)
Q4 Heater	(heating element)

## Power ON test

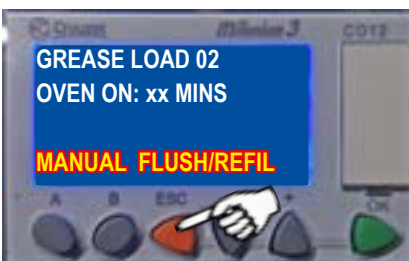
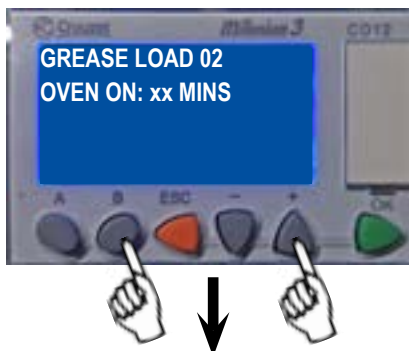


## The skimmer, spray bar and heating.

- ➔ Connect the mains supply.  
The PLC will run an output test.
  - ➔ The skimmer will run for 10 sec.
  - ➔ Then the water solenoid valve opens for 10 sec. If no water connected, you can hear it clicking.
  - ➔ Finally the heating is switched on for 10 sec. You can measure  $\pm 2,6$  Amps (300 Watt)
- Note that the heater will stay on since it is programmed to be on between 6 AM and 9 PM*

## The Flush valve

- ➔ Push **B** and **+** simultaneous.
- The flush (drain) valve will open for 200 seconds.
- ➔ Push the **ESC** key at any moment to close the valve.

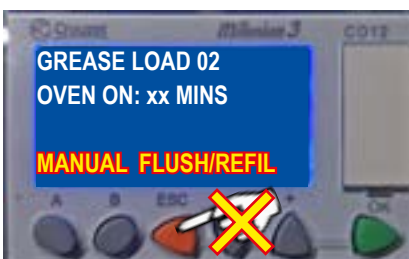


## To empty the tank.

- ➔ Push **ESC** as soon it is empty, at least before it starts refilling after 200 seconds.

## To refill an empty the tank.

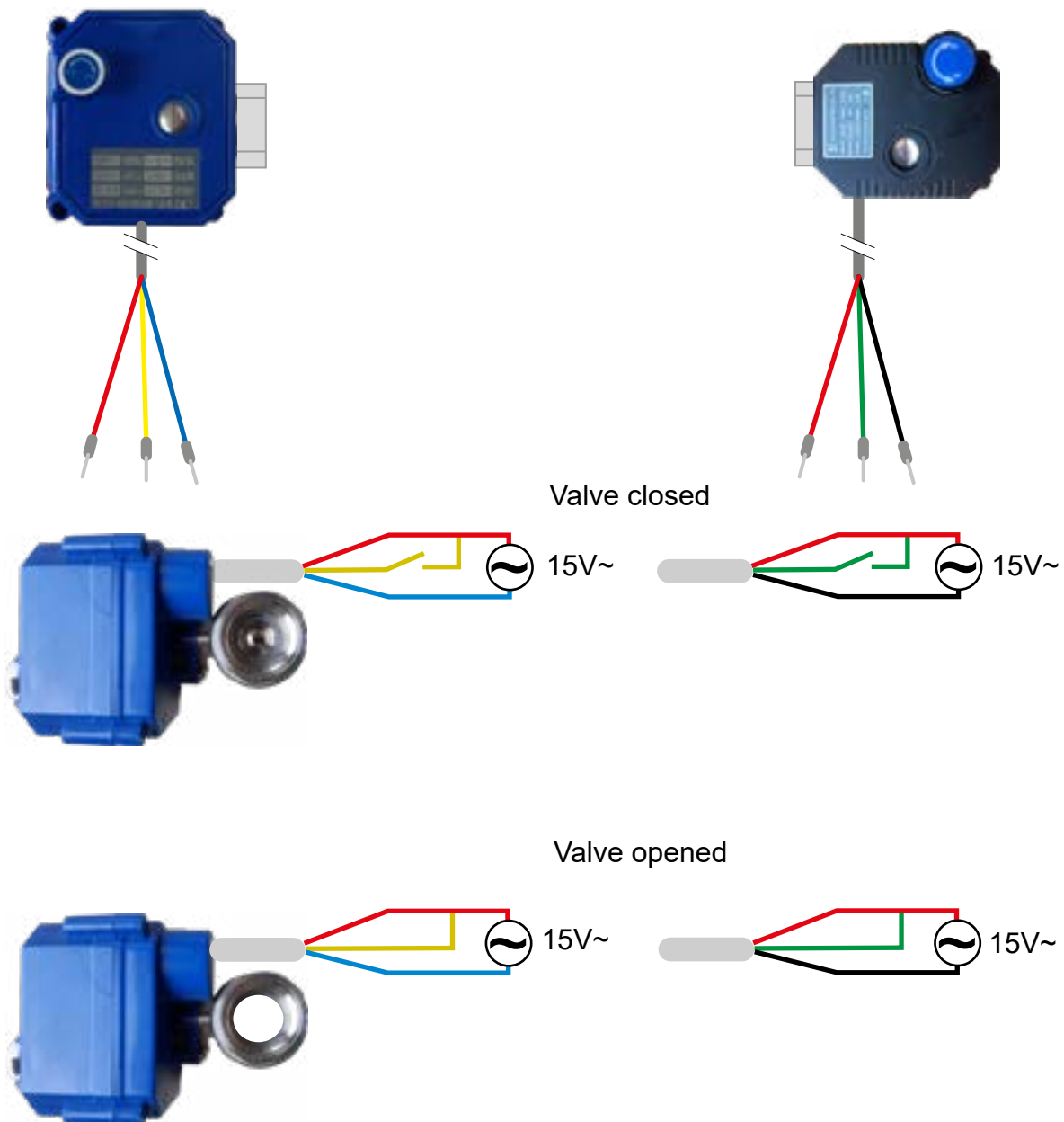
- do not push **ESC**.
- After 200 seconds, the refilling starts.



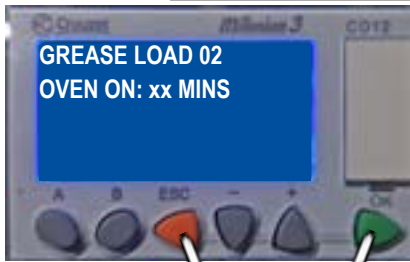
## Valve connections

Depending on availability, different valves can be delivered.  
The wire colours can differ too.  
Below a few examples.

The valve closes when power comes on the Red and Blue/Black wire, or stays closed.  
The valve will open when the Yellow/Green wire is connected with Red.



## Clock setting

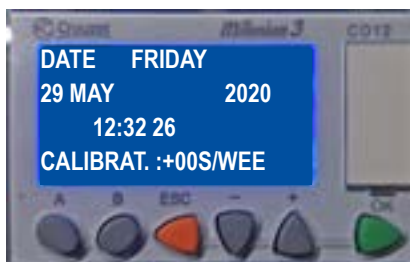
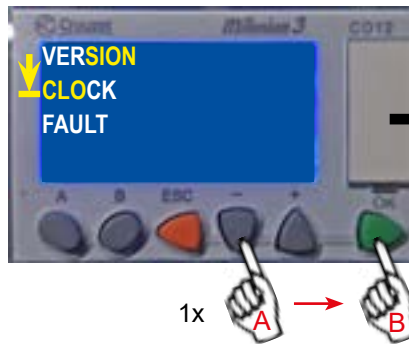
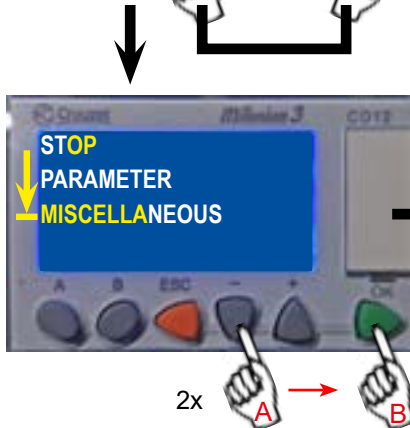


Pushing **ESC** and **OK** simultaneous, gives 3 options.

Choose Miscellaneous (2x **-** and then **OK**)

Choose Clock (1x **-** and **OK**)

Choose Date/Hour setup ( **OK** )



## Method of changing:

The selected parameter is highlighted which is flashing.

Select the parameter with **+** **-**.

Confirm with **OK**

The parameter is now flashing (not highlighted)

Change with **+** **-**.

Confirm with **OK**

Leave the menu with **ESC**

**ESC** always helps to get out of the menu in case you get lost.

- NOTICE -

This manual is prepared for the use of trained Service Technicians and should not be used by those not properly qualified. If you have attended a training for this product, you may be qualified to perform all the procedures in this manual.

This manual is not intended to be all encompassing. If you have not attended a training for this product, you should read, in its entirety, the repair procedure you wish to perform to determine if you have the necessary tools, instruments and skills required to perform the procedure. Procedures for which you do not have the necessary tools, instruments and skills should be performed by a trained technician.

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