



# MS ECO INSTRUCTIONS

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**oliser**  
GLOBAL



10 Galloway Road  
Hillcrest, 3610, KZN  
Republic of South Africa

*Tel* : +27 31 765 2544

*Fax* : +27 31 765 2399

*Web* : [www.oliser-global.com](http://www.oliser-global.com)

*Email* : [info@oliser-global.com](mailto:info@oliser-global.com)



Place the cartridge in to the evacuation station pushing through the top of the cartridge.



Flip down the Evacuation button to start emptying the cartridge.

When the evacuation is completed, take the cartridge out of the evacuation station by pulling from the top of the cartridge and flip up the evacuation button.

Check the weight of the emptied cartridge. It must be around 20gr.



Insert the cartridge in to the cleaning station pushing through the top of the station.



Then flip down the Cleaning button to start the cleaning operation. Leave the cartridge at least 2 minutes for cleaning operation. Use pure ink water or if possible, heat the pure water 60°, 70°.



Place the cartridge in to the evacuation station pushing through the top of the cartridge.



Flip down the Evacuation button to start emptying the cartridge.

When the evacuation is completed, take the cartridge out of the evacuation station by pulling from the top of the cartridge and flip up the evacuation button.



Insert the cartridge in to the filling station and secure the cartridge using the red handle.



Flip down the Filling button to start filling the cartridge. Follow the filling of the cartridge, When you notice that the ink is reached to the top of the cartridge, Flip down the red handle, and wait 3-5 seconds for pressurizing. Then take out the cartridge from the filling station and flip up the filling button.

Check the weight of the cartridge using an electronic scale, average weight must be around 58-60 g. If the weight is more than that, empty the excess ink from the cartridge using the evacuation station to bring the exact weight. If the weight is less than that, Insert the cartridge to the filling station and continue the filling operation.



**Insert the cartridge in to the 15 / 45 Evacuation station and flip down the red handle to secure the cartridge.**



**Flip down the 15 / 45 evacuation button to start the evacuation operation.**

**Check the weight of the emptied cartridge. It must be around 64-66 gr.**



**Then insert the cartridge to the filling station, and secure the cartridge flipping up the red handle**



**Push Start / Stop button. It will do 20 seconds vacuum then it will start filling around 20-30 seconds.**



**Watch the syringe movement, when it is stopped, push the balance button for 3-5 seconds for pressurizing then remove the cartridge flipping down the red handle.**

**And then test the cartridge.**

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## **SYRINGE REPLACEMENT**

It is recommended the syringes be replaced regularly to prevent leakage of the syringe seals and movement. How often the syringe must be replaced depends on the frequency of use, the inks used, and other factors. We recommend you to replace it every 300-400 cartridges filled.

### **Items needed:**

Replacement syringe. (The replacement syringe is complete with syringe, plunger and seal. However, only the syringe body and plunger seal are used. The replacement plunger rod may be discarded)

1. Switch off the compressed air line.
2. Remove the fitting at the top (liquid exit point) of the syringe by turning counterclockwise, then lifting slightly upwards.
3. Take out the 4 screws using a screwdriver and pull up the syringe and out of machine. Discard.
4. With the syringe removed, remove the plunger seal by gently prying off the piston rod. Discard.
5. Remove the plunger seal from the replacement syringe, and install onto the machine piston. The plastic replacement plunger rod is not used, and may be discarded. Only the plunger seal and syringe body are used in our machines.
6. Insert the syringe body and screw the 4 screws to fix the syringe body.
7. Reconnect the top fitting by turning clockwise until hand tight only.
8. Replace rear panel.

**Insert all Exhaust Lines into your specific catch receptable**

**Note :** Empty your catch buckets once they become 1/3 full. This will optimize the air flow in your equipment and allow the System to perform correctly.

**Note :** Use separate catch buckets for waste and reusable liquids.

### **Maintenance :**

**Flush your equipment with warm distilled water daily.**

**Simply use an empty cartridge to draw the distilled water through your equipment in place of ink.**

**This will keep any sediment from clogging the interior of the equipment.**