



REVERSE OSMOSIS LA FENDEUSE

OPENING PROCEDURE AT BEGINNING OF SEASON AND CLOSING



CDL Maple Sugaring Equipment Inc.

PROCEDURES TO START THE CONCENTRATOR "LA FENDEUSE" IN THE BEGINNING OF THE SEASON

1. Photo A – Install the "U-cup" at one end of the membrane, groove upward.
2. Photo B – Place the plug in the end of the membrane on the same side as the "U-cup".
3. Photo C – Put the stainless steel plate on the "U-cup" using a small flat screwdriver.
4. Photo G – Remove the cover from the post and make sure that the 4 Allen screws are unscrewed as much as possible.
5. Photo D – Place the membrane gently with the plate downward, raise the post and make sure it is well in place on the pump, either by turning the membrane or by gently shaking the post.
6. Photo E – Put the lid on. Tighten the large bolts. Make sure that the seals are greased.
7. Photo G – Using an Allen wrench, tighten the 4 small screws alternately one in front of the other until the 4 are screwed in. Do not over tighten.
8. Connect the hoses to the post (3 hoses).
9. Place a pre-filter cartridge in the blue bowl and close the 3 drains (turbine, pump and bottom of the post).
10. Start the pump (green button) to fill the entire system with water, open the valve on the top of the post to vent the air from the system. When the water exits through this valve, close it, stop everything, plug the post's electrical wire and restart the device.
11. You are now ready to start. Follow the instructions on the panel.
12. When the system is filled with water, if it is the first time you use the osmosis in the season, you must remove the preservative liquid or the contaminated water from the membrane. Concentrate enough sap to get about 300 gallons of permeate per post. Discard the concentrate obtained during this operation. As soon as the desired quantity is reached, perform a complete wash cycle to thoroughly clean the membrane. When the wash cycle is complete, you will be ready to concentrate. Never leave a membrane that contains a preservative inside the post.

For an effective wash of the Filmtec Mark-1 or H2O CDL MAX membrane, the pH of the water must be 11 or 12. The pH increases by adding soap for this purpose.

NEVER CONCENTRATE ORDINARY WATER IN ORDER TO OBTAIN PERMEATE. THE HIGH PRESSURE PUMP WILL BE DAMAGED BECAUSE IT WILL NOT BE CAPABLE OF BUILDING PRESSURE. IF THE MACHINE CONCENTRATES ORDINARY WATER, THE WARRANTY WILL BE VOID.

Important: When the membrane is new, it is important to immerse it in water for 24 hours.



5/8" nut for the lid

1/4" Allen screw for the round disc. To be tightened alternately one in front of the other in an X, until the 4 are tightened.

PROCEDURES AT THE END OF THE SEASON (CLOSING)

1. Disconnect the quick union at the inlet of the feed pump.
2. Drain the feed pump by removing the stainless steel cap.
3. Open the ¼" valve at the base of the turbine.
4. Fully open the pressure and concentration control valves.
5. Put the 2 3-way valves at 45 degrees to drain the entire system.
6. Disconnect the hoses that are connected to the post.
7. Open the drain at the base of the post.
8. Pull out the membrane, remove the plate, cap and rubber "U-cup".
9. Verify that there are no openings for rodents. It is common for rodents to nest in a machine and block the inlet of the feed pump.

Important: If water freezes inside the osmosis, serious damage can occur. ALWAYS keep your concentrator in a heated room, during and out of season. It is very difficult to be certain that all water is drained from the osmosis. If water freezes inside the turbine or the membrane, the warranty will be voided. NEVER leave the membrane in the post with soap or preservative. The chemicals that compose them will attack the "O-rings" and the plastic.

STORING THE MEMBRANE

Note: In order to facilitate the handling of the membrane, it is recommended to lay the post on its side. As shown in picture D.

1. Place the membrane inside the storage box, in a solution of permeate and sodium meta-bisulphite, or contact your representative to have the membrane washed at CDL.
2. Do not let the membrane freeze or dry out.
3. Store the membrane in a cool place.
Do not leave the cap nor the U-cups at the end of the membrane. The storage solution will attack the rubber.

Note: Next season, do not wait till the last minute to check the operation of your device. This will save you a lot of worries.