



Miroil Domray Oil Filtration

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Troubleshooting

Whilst the level of problems with the pumping system will be minimal due to the fact that the unit operates under no load, from time to time clients may experience problems in the operation of the system.

In most cases any problem will be the result of the manner in which the unit is operated, and can be attributed to not following procedures, particularly when solid fat is being used, or allowing particles to enter the pump due to oil flow from the fryer not being directed through the filter bag.

Where fat which has been allowed to harden, probably resulting from storage overnight then a plug can be created either in the suction pipe in the basin or in the delivery hose if it has not been hung after use for drainage and avoiding kinks.

When particles are allowed to enter the pump head either as a result of a split bag or oil flow not passing through the filter bag, then an accumulation of particles, particularly with solid fat, will solidify in the pump itself stopping the pump from rotating.

These potential situations can be avoided with correct operation but if you do experience a problem of this nature then the following is a guide to the action which should be taken to bring the machine back into use.

1. Ensure basin is empty
2. Remove delivery hose and confirm, using hot water that it is clear and there is no plug in the hose.
3. Switch on pump and confirm it:
 - a. Runs continuously
 - b. Note any unusual noise in the pumping area
4. If the motor and pump appear to be working normally, disconnect the power cord and remove the elbow and connector as one piece from the top of the machine.
5. Remove the cover by undoing the two screws at the rear. This will expose the pump and motor.
6. Reconnect the power cord and run the motor again, listening for any noise, particularly in the pump area which could be particles in the head.
7. At this stage the pump will be exposed. Disconnect the power cord and using an Allen key remove the cover on the pump, noting the position of the raised locator. There are 4 screws attaching the cover.
8. Take care as under the cover are 5 round rollers and an impellor.
9. Under this conditions it is possible to see if any foreign matter has become lodged in the pump head and also visually inspect the impellor.
10. After removing the impellor and rollers, reconnect the power cord and run the motor again to confirm the shaft is turning and the motor operates free from any noise.



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11. If all appears to be in order, then it is almost certain that the problem is in the suction pipe going to the bottom of the basin from the pump.
12. When the cover is removed the top of the suction pipe is exposed and it is possible to pass a wire down from the top and check for a blockage. Solid fat may have congealed in the pipe and this is preventing suction. If so this fat will need to be removed before the pump can run.
13. When this action has been completed, reinstall the impellor and fit the rollers and cover of the pump as per the enclosed drawing, making sure that the cover is aligned correctly matching the location points.
14. Refit the elbow and connector in the top of the pump and attach the delivery hose.
15. Fill the basin with a small amount of hot water and make sure the hose is pointed into the basin. It could be best to have someone assist in holding the hose.
16. Turn on the pump for a minute and watch to see if water is sucked up and discharged into the basin. **DO NOT RUN FOR LONG PERIOD USING HOT WATER**
17. If the pump operates normally then stop the motor, disconnect the power cord, delivery hose and remove the elbow and connector. Pour some frying oil into the top of the pump housing before reassembling the cover.
18. Refit the elbow using plumbing tape to seal.
19. When completed connect the discharge hose and pour some more frying oil down the hose into the pump to prime the pump. **THE PUMP WILL NOT WORK WITHOUT OIL BEING AVAILABLE IN THE HEAD.**

The DOM 40 Filtration Units will give years of valuable trouble free performance given attention to the operating instructions.