OIL FILTER MAINTENANCE

Schedule & Instructions

• DETERMINE THE FREQUENCY OF OIL CHANGE BASED ON YOUR PUMP TYPE*

In order to maintain the performance and long life of your vacuum pump, follow these instructions. This maintenance is required in order to process warranty claims. When this maintenance schedule is followed, your freeze dryer will work more efficiently and perform better.

PUMP TYPE		OIL CHANGE FREQUENCY	MAINTENANCE
STANDARD OIL PUMP		Every 4-5 batches (or sooner if the oil is cloudy)	Drain oil into filter and replace with new or filtered oil.
PREMIER OIL PUMP		Every 20-30 batches (or sooner if the oil is cloudy)	

• OIL FILTER SETUP AND FIRST USE

This filter is not dishwasher safe.



THIS FILTER SHOULD ONLY BE USED FOR VACUUM PUMP OIL.	REMOVE CARTRIDGE PACKAGING, GRIP THE TOP OF CARTRIDGE AND PLACE INTO CARTRIDGE HOLDER.	FIRMLY PRESS IN CARTRIDGE UNTIL IT IS SEALED AND MAKES A FIRM SEAL	FILTER IS NOW READY FOR USE

OPTIONAL: Dial on lid can be set and used as a general reminder of the month you last filtered your oil.

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• OIL FILTRATION DIRECTIONS

1. Open the oil reservoir drain valve and allow oil to drain into your oil filter. Assure all of the oil comes out by lifting the rear of the vacuum pump slightly.
2. Wait for the oil to filter through your filtration system.
3. A small amount of water accumulates in the oil as part of each batch. When the oil is filtered, the water and oil will separate. The water will sink to the bottom of the bottle while the oil floats on top of the water.
4. Remove the water from the oil by pouring off the oil and discarding the water. Do not pour the water back into the vacuum pump. This will ultimately damage the pump.
5. Pour the filtered (or new) oil into your vacuum pump.
6. Start your freeze dryer.

• HOW DO I KNOW THAT MY FILTERED OIL IS CLEAN FOR USE?

The best indications for cleanliness are as follows:

- Oil is void of debris or particulates
- Oil is not milky or chalky
- Oil has clarity (the color may be yellow or amber and still have clarity)
- Your vacuum pump is achieving a pressure (mTorr) suitable for freeze drying

• HOW DO I KNOW WHEN I NEED TO REPLACE MY OIL FILTER?

- Oil won't drain through filter (this can happen over time as debris builds up)
- Oil isn't cleaning well (i.e. The oil continues to be milky or full of debris)

• WHAT DO I DO TO REPLACE MY OIL FILTER?

- Replace the cartridge or order a new cartridge replacement set from Harvest Right.
- Cartridges should be replaced after approximately 15-20 uses or sooner, depending on the quality of the oil.

• LOOK AT OIL THROUGH SIGHT GLASS. IF IT IS NOT CLEAR, CHANGE IT. SEE SAMPLES BELOW:

CLEAN OIL



CLOUDY OIL - NEEDS CHANGING



OIL IS TOO DIRTY: DON'T ALLOW

