



Remove the schrader valve in the top of the tank and replace with a needle valve. If a needle valve with one side NPT threads to match the schrader valve and the other side a compression fitting a 1" length of small diameter copper pipe can be added. Onto this can be attached a tee with a vacuum gauge if desired, but this is optional. The tank is evacuated via this needle valve by opening it and attaching the vacuum side of a salvaged refrigerator compressor. Small diameter poly pipe can be used and connected via 1" sections of rubber hose slipped over the ends of the pipes you wish to connect. Friction will suffice to hold them in place if you are careful to get the right sizes of pipes/hose.

Inside the tank is a rubber/plastic diaphragm which should be punctured by stabbing it through the port in the bottom of the tank using a long rod or sharp stick. Make at least 3 large penetrations in the diaphragm or the tank will fill slowly. You will need to remove the 90° pipe fitting on the bottom of the tank to do this. This can be difficult and may require heating the fitting if it is very rusted. Adapt a hose barbed fitting to the port. Use pipe tape or "dope" to seal the reducers and fittings. Nylon or plastic fittings can be used. They are often cheaper than metal ones.

Attach a length of hose to the barbed fitting and to a ball type valve. Use a large enough valve so that the hole in the "ball" is not too much smaller than the interior diameter of the hose or it will restrict oil flow and slow it significantly. I usually use at least 20' of hose so I can easily reach my two containers at the pickup and drop off points. I add 6' of clear semirigid poly hose to the other end of the ball valve so I can view the two when I start sucking it out of the collection container. This way I can simply drop the hose in the two and after slightly opening the valve push it deep enough to fill the tank. If I see fats or crud being sucked through the clear hose I can pull it out enough so only clear two is being drawn. Since I use 55 gallon drums as my two collection containers I am able to place a rubber band on the hose which notes how deep I must submerge the hose end to completely fill my tank. I use a small spring clamp to hold the hose in place once it is correctly placed. Once the ball valve is opened I can simply walk away for the next 10 minutes (40 gallon tank) and when I come back I just close the valve, and coil up my hose.

Upon returning to my drop off point/prefilter unit I attach the refrigerator compressors pressure side to the needle valve, open it and the ball valve, and the oil is pushed out of the tank, through the hose, and into my prefilter/holding tank.

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