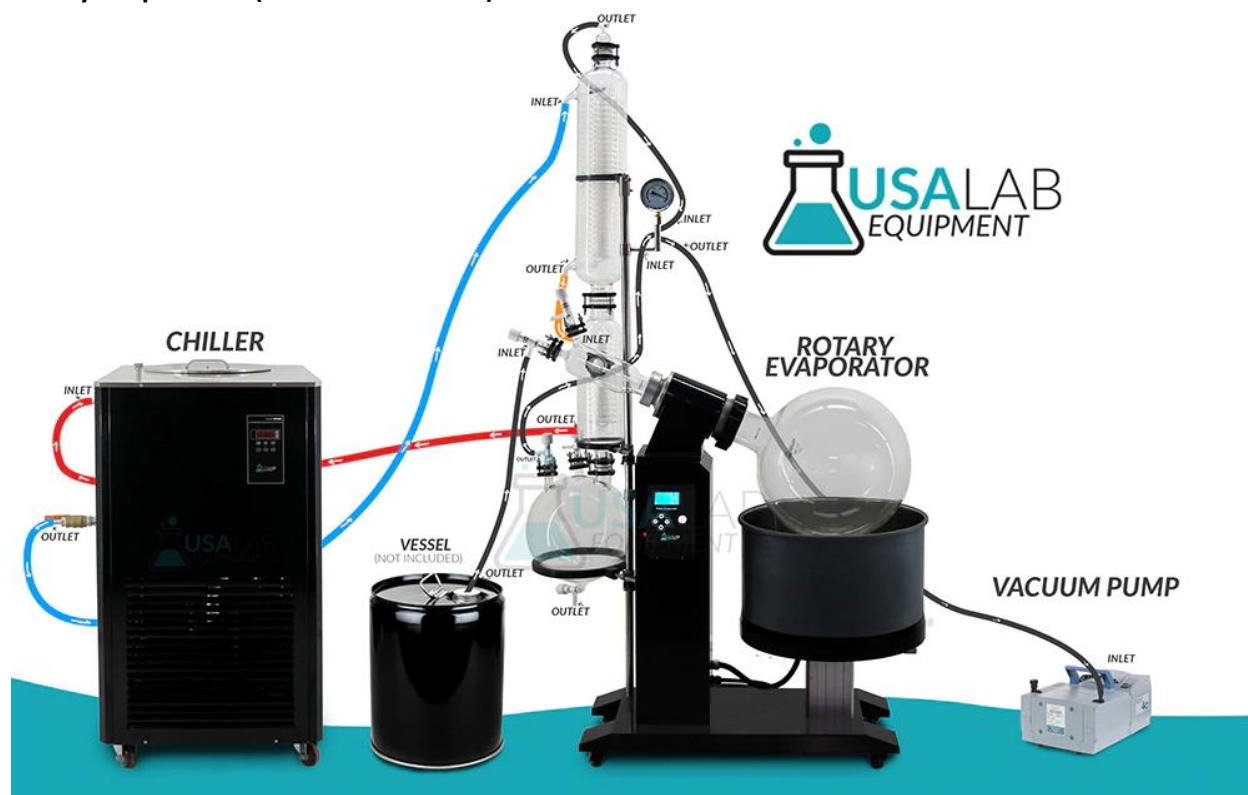


## Rotary Evaporation (Automatic models)



### Disclaimer

This guide is not a standard operating procedure. For general guidance only. Care and common sense should be used in the operating of any laboratory equipment. USA Lab is not responsible for any damages, injury or loss.

**Setup:** Unpack all parts, inspect glass pieces and crosscheck with packing list. If any part is broken, cracked or missing, contact us. Do not remove white ptfе from gaskets. Clean all glass before installation and use. Grease all glass joints and gaskets with vacuum grease. The vapor duct must be well greased along with the oil seals that ride on it. One gasket has a center valve. That valve gasket must hang down when installed between the condenser and the receiving flask. Check the manual for specific part diagrams and installation. Install the stand, gauge, condenser strap and support rings. Then the glass pieces with the gaskets in-between flanges. Be sure the clamps are tightened evenly on all sides. The system should be vacuum tested for leaks before adding any product. When vacuum leak testing, The gauge should read between 0.09 and 0.1 in the red zone. After vacuum leak testing, fill and prime the chiller. Refer to instructions on priming the chiller. Once priming has been done attach and cut to length all insulated chiller hoses.

**Recovery run:** Set your chiller for the rated lowest temperature. Always run the loop. Allow the chiller to cool the entire loop until it is close to the set temperature. Raise the bath until the water covers half of the outside of the flask. Turn on the bath heating and set between 50C – 75C. Turn on the rotation for as fast as possible, while stable. If the glass wiggles, slow the rotation down. Place the cover over the boiling flask onto the edges of the bath. The vacuum should be started. Add a tube that runs from the feed port down to your vessel. Start the run when the chiller reaches 29C, when set for 30C. Open the feed port to begin filling the boiling flask. Do not fill the flask more than half-way. The evaporation will begin at this point. Evaporation can be boosted with pre heated solution. 40-45C. It will be necessary to

refill the boiling flask over time. When the receiving flask is full. Close the vacuum port on the receiving flask. Then open the vent port to release the vacuum and close the receiving flask valve. Empty the receiving flask. Then close the vent valve and open the vacuum valve slowly. The receiving flask should equalize with the rest of the system and open the valve below the condenser. Dumping the solvent recovered while emptying the flask. Keep recovering until the flask is half full of solution that does not continue to evaporate solvent.