

Hei-VAP Cleaning Procedures *made easy*



EVAPORATOR

The outside of the Hei-VAP Rotary Evaporator is made of durable material, and it can be cleaned with anything from water and a detergent, to alcohol wipes, to a solvent such as acetone.

BATH

- Empty bath water and refill with new bath water
- Add a small amount of citric acid to the bathwater
- Run bath at 50 degrees Celsius, and turn the rotation on your evaporating flask to 80-120rpm to create turbulence
- After running for 30 minutes to an hour, empty the bath
- Wipe down with a rag.
- Bath is ready for use

GLASSWARE

- Disassemble glassware (Condenser, Vapor tube, Vapor Tube Seal, Evaporation Flask, Receiving Flask)
- Remove all screwing connections and caps from Condenser.
- Clean Condenser, vapor tube, evaporation flask, and receiving flask by hand using a brush and appropriate solvent (acetone is commonly used, ethanol works as well)
- Lay glassware out to dry
- Dip caps and vacuum seal in the solvent (acetone or ethanol) for 10 seconds, wipe with a rag, and let it dry
- (Optional) While the vapor tube is out, use a rag with water and a mild detergent to clean out the rotating drive and vapor tube sleeve.
- Reassemble glassware.

CHILLER

- Remove the drain valve cap at the back of the chiller.
- Allow chiller fluid to empty into a container
- Loosen (very slightly) one of the barbed connector caps that connect the chiller tubing to the Condenser
- Wait for the chiller fluid to empty from Condenser and finish draining out of the chiller.
- (Optional) if the tubing is dirty or discolored from use, replace tubing lines.
- Fill chiller up with new chiller fluid (Glycol 60% & Water 40% mixture) (Heidolph _ 036306507 - Temperature transfer liquid for circulation chiller)
- Run chiller

VACUUM PUMP

VACUUM PUMP (FIRST CHECK)

- Run vacuum pump unconnected for 5 minutes to air the system out.
- Reconnect to a system and check to see if an ultimate vacuum is achieved (12-15 mbar)

VACUUM PUMP (SECOND CHECK)

- If ultimate vacuum is not achieved, remove the tubing from the pump.
- Apply a few drips of ethanol or acetone in the vacuum line and run it for 20-30 minutes to air the pump. (if necessary, re-run the process one more time)
 - Reconnect the tubing to Evaporator and test for ultimate vacuum (12-15 mbar)

VACUUM PUMP (THIRD CHECK)

- If ultimate vacuum is not achieved, remove the tubing from the pump.
- While consulting manual - cleaning and inspecting the pump heads section
 - Use Hex key to remove 6 socket head screws at the pump head
 - Remove upper housing
 - Carefully remove head covers
 - Use solvent (ethanol or acetone) to remove deposits
 - Reassemble and test for ultimate vacuum

If additional assistance is still required, **please reference the back of this page for the best solution for you** →



SPARE PARTS

HEALTH DAYS

If you finish the checklist on the front and still need assistance schedule a complimentary Health Day service visit to test the performance of your Heidolph products.

Contact us at hello@heidolph.com to learn more.

In addition, Heidolph offers full service packages to ensure your lab is efficient and optimized.

Please contact service@heidolph.com for more information.



PTFE Vacuum seal



Spare Clamping sleeve

Explore even more spare parts at heidolph.com or contact us at hello@heidolph.com.

ADDITIONAL KNOWLEDGE AND RESOURCES

Knowledge Blog



Optimize your evaporation processes with Heidolph's literature. From Application Notes to Case Studies and Whitepapers, explore content to help you get the most out of your evaporator.

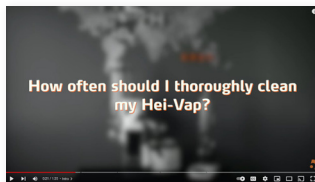
www.heidolph.com



YouTube

Heidolph offers a comprehensive range of YouTube videos to aid you in the optimization and cleaning of your Hei-VAP Rotary evaporation system. Visit [@Heidolphna on YouTube](https://www.youtube.com/@Heidolphna)

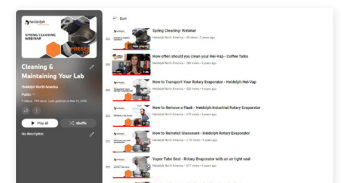
HEI-VAP CLEANING OVERVIEW



GLASSWARE ASSEMBLY



AND MORE...



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