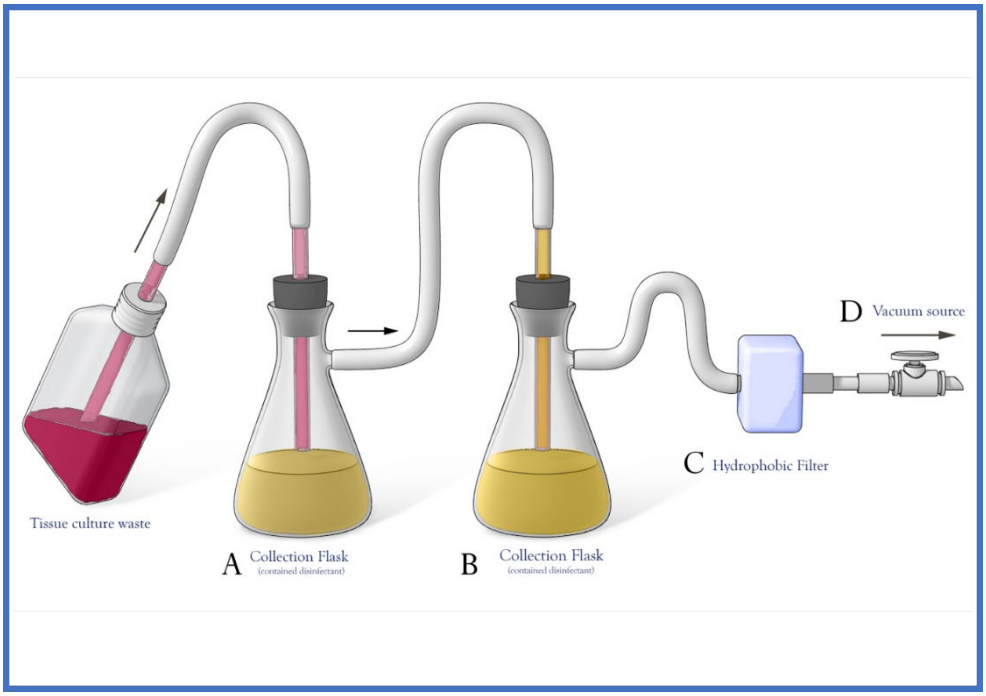

Quick Reference: Protection of Vacuum Systems

Penn EHRS
Environmental Health & Radiation Safety

FILTER OPTIONS

Filter Options: Use in-line, hydrophobic, filters made of PTFE with 0.3µ particle retention. Filters are available from most scientific vendors. (some suggestions are listed below)

Name	Properties	Dimensions	Part Number	
Vacushield * Vent Device, Pall* Life Sciences	Hydrophobic PTFE membrane filter, 0.3µm particle retention, autoclavable	Stepped hose barbs 6.4 - 12.7 mm diameter	Pall 4402	
Whatman HEPA-Vent Filter	mildly hydrophobic, 0.3µm particle retention, autoclavable	Inlet/outlet: 1/4 to 3/8 inch stepped barb	Whatman 6723-5000	
Millipore Millex Vacuum Line Protection	Hydrophobic PTFE membrane filter, autoclavable	Variety of inlet/outlet combinations, including stepped hose barb & 1/8 NPTM	Millipore SLFH050 10 SLFG750 10	

Vacuum lines must be protected with filters to protect building central vacuum systems. Filters must be replaced as needed.

SET-UP AND DISPOSAL

Set-up:

- Aspirator is connected to the collection flask and overflow collection flask (A & B*).
- Flasks should contain appropriate disinfectant
- In-line filter (C) is connected to protect eh vacuum line (D).

*secondary collection flask (B) is not required but recommended for high workflow labs

Decontaminate aspirated waste:

- Use appropriate disinfectant in the collection flasks
- Decontaminated liquid can be poured down the drains
- Collection flask must be stored in a secondary container while in use