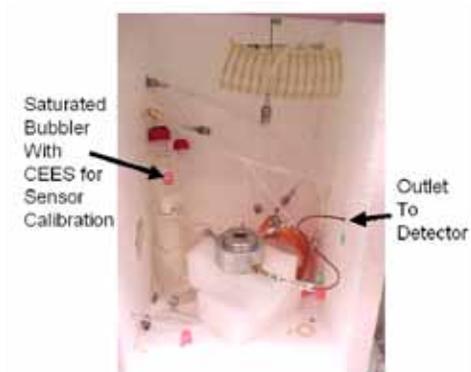
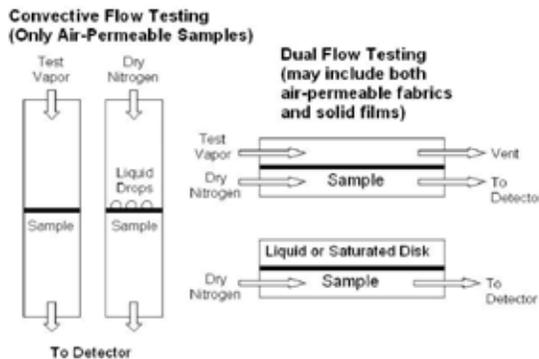




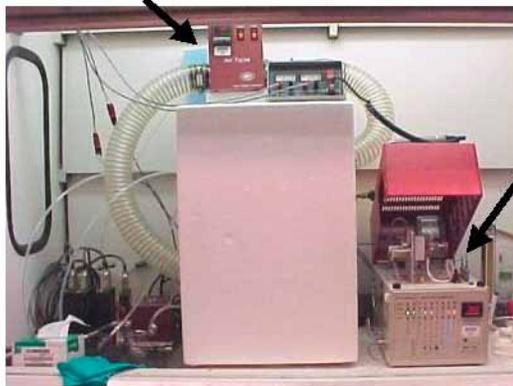
PERMEATION TESTING SYSTEMS

OVERVIEW:

The Natick Soldier Research, Development, and Engineering Center (NSRDEC) has extensive facilities for characterization of the permeation characteristics of permselective membranes and laminates as well as air-permeable fabrics containing activated carbon, other sorbents, or reactive additives. Vapor, droplet, and fully flooded permeation conditions are carried out with both water and organic chemicals. Detectors include infrared, photoionization, flame ionization, argon ionization, and mass spectroscopy. Gas chromatographic techniques are utilized to enhance sensitivity to the permeants. A variety of unique nonstandard sample cells and protocols are used to make measurements. Standard methods include those described in Test Operating Procedure (TOP) 8-2-501.



Temperature Control for Test System in Styrofoam Box



Flame Ionization and Photoionization Detector (FID and PID)



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