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PHOTOMETER VACUUM LEAK TESTING PROCEDURE (USING AEROSOL SPRAY METHOD)

NOTE: This procedure is applicable to the following models manufactured by Air Techniques:

TDA-2C, TDA-2CN, TDA-2D, TDA-2DN, TDA-2DMF, TDA-2DHV, TDA-2E, TDA-2EL, TDA-2EN, TDA-2DL, TDA-2ENL, TDA-9A, TDA-9B, TDA-9C, TDA-2GA, TDA-2GAN, ATI-2HA, ATI-2HAN, TDA-2G, TDA-2GN

STEPS:

1. Turn power and vacuum pump on.
2. Place photometer in CLEAR operation.
3. Allow 10 minutes warm-up time for unit to stabilize.
4. Set-up unit for 100ug/l operation.
5. Using aerosol source, spray around the sampling train, consisting of the scattering chamber, selector valve, reference filter and sampling lines. Any meter deflection will indicate a leak. Slowly move aerosol source to pinpoint the leak.
6. Connect a HEPA filter with a known efficiency of 99.97% or greater to the UPSTREAM port on the front panel. Turn selector valve to the Upstream position and spray the aerosol between the sample port and the selector valve.
7. Move the HEPA filter to the DOWNSTREAM port and selector valve DOWNSTREAM and repeat Step 6.
8. Correct any leaks detected and retest.