



Figure 1. Modified high-volume sampling train.

2.2.1 Probe and Probe Nozzle Brushes, Wash Bottles, and Funnel. Same as in Method 5, Sections 2.2.1, 2.2.2, and 2.2.8, respectively.

2.2.2 Filter Shipping Containers.

2.2.3 Acetone-Wash Recovery Bottle. Chemically resistant, borosilicate glass bottle, for acetone washes, 2 to 4 liters. Screw caps shall be constructed to be resistant to chemical attack by acetone. Alternatively, polyethylene bottles may be used.

Note: Because of the large surface area, extra care must be taken to recover the PM from the probe and nozzle. To allow the probe and nozzle wash samples to be recovered in an efficient way, it is suggested that the probe nozzle and acetone-wash recovery bottle be designed such that the acetone-wash recovery bottle can be attached to the nozzle end of the probe. A flange that allows the lid to be screwed on has been shown to work well. To prevent interference with sampling, the flange must be located at least 1 nozzle diameter from the nozzle opening. The outer edge of the flange must be located 3.8 ± 0.6 cm (1.5 ± 0.25 in.) from the pitot tube to prevent interference with the velocity readings.

2.2.4 Glass Sample Storage Containers. Same as in Method 5, Section 2.2.3.

2.3 Analysis.

2.3.1 Desiccator, Analytical Balance, Hygrometer, Beakers, and Temperature Gauge. Same as in Method 5, Sections 2.3.2, 2.3.3, 2.3.5 to 2.3.7, respectively.

3. REAGENTS

3.1 Sampling.

3.1.1 Filters. Same as in Method 5, Section 3.1.1.

3.2 Sample Recovery. Same as in Method 5, Section 3.2.

3.3 Analysis.

3.3.1 Acetone and Desiccant. Same as in Method 5, Sections 3.3.1 and 3.3.2, respectively.

Same as in Bibliography of Method 5.

Total

Average
