

Tekran Model 3400-AIR – Air Filtration System

Rev. 113021

The Tekran[®] Model 3400-AIR Air Filtration System is an inexpensive, convenient conditioning unit for plant compressed air. The Series 3400 Mercury CEM requires three types of air in order to operate. Purge air is needed for filter blowbacks. Motive air is required to drive the inertial filter sample flow via an eductor. Zero Air is used for dilution and for the generation of calibration gas. Both types of air should be dry, oil free and particulate free, however the Zero Air is also scrubbed of all traces of mercury.

The Model 3400-AIR incorporates long-life filter elements and mercury scrubbers which are simple to change, inexpensive, and last in excess of one year under normal operating conditions. The air panel is fitted into a drawer-type vertical arrangement as shown in picture to the right. This provides direct access to all serviceable filtration components, making replacement of the mercury scrubber exceptionally easy.



Product Highlights

- Provides Purge air (filtered only)
- Provides Zero Air (filtered and scrubbed)
- Automatic draining water knockout traps
- Long life filtration elements
- Individual pressure regulators for each supply
- Individual shut-off valves for each supply
- Multi-stage particulate traps

Applications of Series 3400 CEM

- Coal fired power plants
- Waste incinerators
- Other industrial sources
- Cement manufacturing emissions
- Bench scale testing
- Mercury removal process monitoring

Specifications

Inlet Air Specifications

Min Inlet Pressure:	90 PSI
Max Inlet Pressure:	120 PSI
Dew Point:	- 40 °C
Other:	Oil & particulate free. (1 µm pre-filtration required)

Output Capacity

Purge Air Output Capacity:	200 SLPM
Dilution/Zero Air Output Capacity:	80 SLPM

Physical

Physical Dimensions:	5.25"W x 21.25" H x 19.75" D
Mounting :	Side Rails

Connections

Air Supply:	3/8" compression
Purge Air Outlet:	1/4" compression
Dilution/Zero to Conditioner:	1/4" compression
Dilution Air to Probe:	1/4" compression



Due to ongoing development, all listed specifications are subject to change.