

## ATEC TOXIC AIR SAMPLERS

ATEC manufactures several models of cartridge samplers for carbonyl sampling, canister samplers for VOC sampling, and combined cartridge, canister, and hexavalent chromium (Cr6) filter samplers for complete toxic sampling using one instrument. The following is a summary of ATEC's line of toxic air samplers.

### ***Cartridge Samplers for Carbonyl Sampling***

**Model 8000**—This is a multi-port sampler with an internal PC with touch screen display. The computer provides easy to use automated function keys to provide flexible scheduling, leak checking capability, and data retrieval. A unique SOP screen guides the operator through set-up, leak check, and scheduling a sampling time. The Model 8000 offers a number of data quality assurance features along with monitoring sampling status and error conditions. The Model 8000 can be expanded with up to 2 additional independent channels and 16 additional ports. An optional label printer is available to print labels containing important sampling information.

**Model 2200-1C** — This model is a single port cartridge sampler with all of the features of the Model 8000.

**Model 2200-2C** — This is a carbonyl sampler designed to acquire two samples over a specified time period. This instrument is generally used to obtain a co-located sample along with a scheduled primary sample. Both channels are completely independent and can run at different times. The Model 2200-2C uses an internal PC with touch screen display and has all of the automated features of the Model 8000.

### ***Canister Samplers for VOC Sampling***

All ATEC canister samplers can be configured for standard sub-ambient sampling or optional pressurized sampling.

**Model 2200-1** — This model is a canister sampler designed to obtain an accurate VOC sample over a specified time period. The Model 2200-2C uses an internal PC with touch screen display and has similar automated features found in the Model 8000. The instrument contains a precision pressure transducer to monitor the can pressure as a function of time to ensure uniform filling. The menu driven software allows easy sampler set-up, leak check, and data and status retrieval.

**Model 2200-12** — This sampler is identical to Model 2200-01 except it is a two port sampler with a single mass flow controller. Two samples can be collected at different times over a designated sample period.

**Model 2200-22** — This sampler is identical to the Model 2200-01 except it contains two independent channels to obtain VOC samples concurrently or at different times.

**Model 8001** — This model is an 8-port sampler using an internal PC with a touch screen display. The unit contains one mass flow controller that can fill eight canisters during different sampling periods.

**Model 8001-16** — This model is a 16-port sampler using an internal PC with a touch screen display. The unit contains one mass flow controller that can fill sixteen canisters during different sampling periods.

### ***Toxic Air Samplers for Combined Carbonyl, VOC, and/or Hexavalent Chromium (Cr6) Sampling***

**Model 2200** — This sampler contains a single channel cartridge port for carbonyl sampling as well as a single channel canister port for VOC sampling. The instrument is controlled by an internal PC with a color touch screen display. Sampling periods are easily programmed for both the cartridge and the canister using one scheduling screen on the front panel display. The unit also has a special SOP (Standard Operating Procedure) screen that ensures that the operator correctly installs, leak checks, and schedules the sampler correctly. The Model 2200 can also be ordered with an optional canister pressurizing system to increase the size of the canister sample. This model can be upgraded to sample hexavalent chromium (Cr6).

**Model 2200-2** — This sampler has all of the features of the Model 2200, but contains two independent canister and two independent cartridge channels for co-located sampling.

**Model 3400** — This instrument has all the features of the Model 2200, but can sample up to four channels of any combination of canisters, cartridges, or filters. This sampler is ideally suited for use in the US EPA NATTS program since it can simultaneously sample one canister, one carbonyl DNPH cartridge, and two hexavalent chromium (Cr6) filter samples.