
Performance Specifications of the 7100 Preconcentrator

Unique Only to the Entech System:

- Has three traps built in to allow water and CO₂ removal
- using MPT and CTD techniques for analysis of
- ppb - ppt VOC's.
- Reproducibly samples 10 - 2000CC from canisters and
- Tedlar bags.
- Permits direct syringe injection of gas (i.e. cal std., BFB)
- without plumbing change.
- Built in self-diagnostics to analyze electronics and
- system components.
- Can perform matrix spiking.
- Can be linked to up to two multi- position autosamplers
- and a purge & trap.
- Can analyze trace VOC's in over 90% CO₂
- Can analyze sub ppb level sulfur compounds using Extended Cold Trap Dehydration
- (ECTD) and GC/MS.
- Does not require an autosampler; four canister positions are built into the concentrator.
- Uses only 10 inches of linear bench space.
- Can pressure or vacuum leak test every canister connection prior to opening the canister valves
- for analysis.



Other Important Features:

- Compatible with Large Volume Static Headspace Analysis (LVSH) and MiniCan inlet systems.
- No solenoids or Mass Flow Controllers in sample path.
- Can analyze TO14 or TO 15 analyte list simultaneously without any modification.
- Fused silica lined stainless tubing. Nearly the entire flow path is fused silica lined.
- QA/QC reports are saved after every run and monitor 51 parameters to verify that all volumes, heated
- zones, flows, pressures, timed events etc. met operational setpoints.
- Can achieve detection limits of <0.2 ppbc for Title I compounds and <0.1 ppbv for Air Toxics.
- Can perform real time analysis every 1 - 8 hours.
- Can concentrate up to 600cc of 100% RH sample volumes with splitless injection into the GC.
- Improved system cleaning using VP Pulse technique.
- The Entech system is operated using a true Windows interface.

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