

Entech Preconcentrator Features

- New, high speed preconcentrator for performing "Fast TO15 Analysis"
- 3 traps built in to allow superior water and CO removal and final pre-column focusing for split-less injection into a GCMS
- Supports Extended Cold Trap Dehydration (ECTD), Microscale Purge & Trap (MP&T), and Dry Purge water management techniques for unrivaled flexibility and maximum compound class recovery
- Reproducibly preconcentrates 1 - 1000cc from canisters, Bottle-Vac™ Samplers, and Tedlar bags
- 3-4 times better water management than 7200 preconcentrator
- Extremely fast injection rates allows peak widths as narrow as 1.5 seconds, with full elution of all TO-15 compounds in under 9 minutes
- Supports up to three multi-position 16 position autosamplers
- Compatible with the 7650 Robotic Autosampler for better system hygiene and lower cross-contamination relative to rotary valve autosamplers
- Can pressure or vacuum leak test every canister connection prior to opening the canister valve for analysis



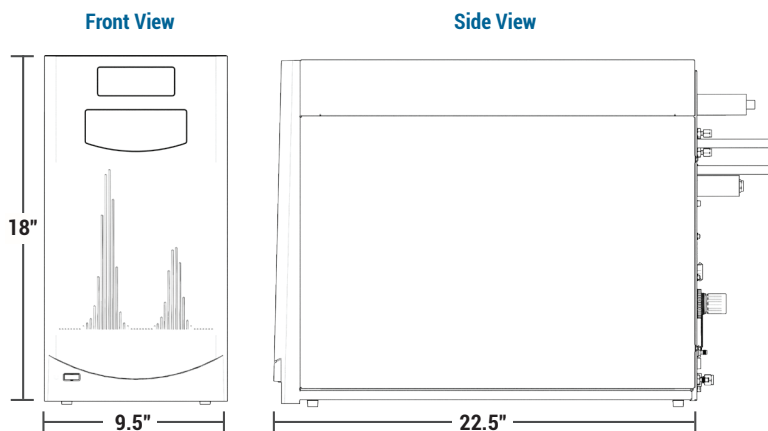
Design and Performance Specs

- No solenoids or mass flow controllers in sample path
- Compatible with EPA Method TO14A, TO15, and TO-15A
- Utilizes Silonite ceramic coated stainless steel tubing for maximum system inertness
- Sequel Database reports saved after each run for better reporting/monitoring of runtime parameters
- Achieves detection limits of <0.02 PPBv for EPA Method TO15 Compounds
- Concentrates up to 600cc of 100% RH sample volumes with splitless injection into the GC
- Improved system cleaning using PV Pulse™ technology
- Uses Entech's SmartLab 2 Network using USB connections on WIN10 or later computer

Features Exclusive to 7200, 7200A and 7200CTS Preconcentrators

- Accu-Sample Technology for superior low volume measurements while reducing cross contamination and carryover
- Built-in loop injection valve with 0.5 to 2cc loop, with full CO2 management prior to GCMS injection
- Opt. 7650 "Million Air System" for 0.1 cc loop for extended dynamic range and rapid sample screening
- Silonite-D coated tubing featuring a shorter flow path, fewer bends, and more inert surfaces
- Improved M3 Focusing Trap design with reduced LN2 usage and superior water management
- Digitally controlled rotary valve actuators that can stop "between ports". Reduced cross contamination and more accurate small volume measurement
- Electronic Volume Control technology produces more accurate volume determination for high CO2, methane, helium, H2 samples. Compatible with new Helium Diffusion Samplers (HDS)

- Greater modularity for easier servicing
- SmartLab 2 network maintains Windows connectivity
- Win10 Compatibility
- Option for direct 240VAC/50Hz operation
- Size: 9.5" Wide, 18" Tall, 22.5" Deep
- Weight: 35-42 lbs 120VAC, 48-54 lbs 240VAC
- Power: 1200W
- Voltages: 120VAC / 60Hz, 230-240VAC / 50Hz
- Coolant: Liquid N2, 30-60 psig
- Gases: UHP Helium or Nitrogen - 40-90 psig, Air/N2 - 20-40 psig
- Operating Environment: 10 - 30° C



M1/M2 Cryotrap

Modules capable of handling 1/8" glass bead or sorbent traps. Temperature range -180°C to 230°C (Thermally protected). Typical temperature rise rate is 360°/min. Module 2 cryotrap (04-01720) can be used alone for single stage concentrations, or more commonly in conjunction with a Module 1 cryotrap for advanced H2O and CO2 management using Extended Cold Trap Dehydration or Microscale Purge & Trap

Cryofocusing Trap

Internal megabore focusing trap. Temperature range is -190° C to 100° C. Temperature rise is exponential starting at roughly 10,000 deg/min and decreasing rapidly to the final value with no overshoot

Flow/Vol. Ctrl

Flows and Volumes are controlled by Entech's exclusive Electronic Volume Control Module (EVC Module). Volumes collected are measured directly, improving volume accuracy relative to time integrated mass flow controllers that do not "directly" measure sample volume collected

Sample Volume

10 to >1000 milliliters using EVC above. Internal loop option allows quantitative injection of 0.5-2cc based on the volume of the loop

Pressure Sensor

0-50 psia

Sample Pressure

Subambient (7 psia) to 50 psia (roughly 35 psig)

Precision

Typical precision: ±3% when sampling over 50 mls of sample, or when performing loop injection

Other Heated Regions

Manifold Transfer Line (150° C), Rotary Valve Block (200° C), Module 1 Bulkhead (200° C), Module 2 bulkhead (200° C), GC transfer Line (150° C)

Outputs

2 TTL level optoisolated open-collector outputs as start signals for GC START

Inputs

Accepts switch closures or open-collector inputs for GC READY, AUX READY

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