

Entech Preconcentrator Features

- Traps and focuses VOCs without liquid nitrogen using advanced Multi-Capillary Column Trapping System (MCCTS)
- Uses 2 separate MCCTS stages for primary trapping and then sample focusing for very rapid injection into a GCMS
- Preconcentrates from 1 to 300cc of sample from canisters, Bottle-Vac samplers, or Tedlar bags while recovering all EPA Method TO-15/TO-15A Compounds
- Superior removal of CO₂ compared to all packed trap based preconcentrators
- Performs matrix spiking
- 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
- Uses under 10 inches of linear bench space
- Can pressure or vacuum leak test every canister connection prior to opening the canister valve for analysis



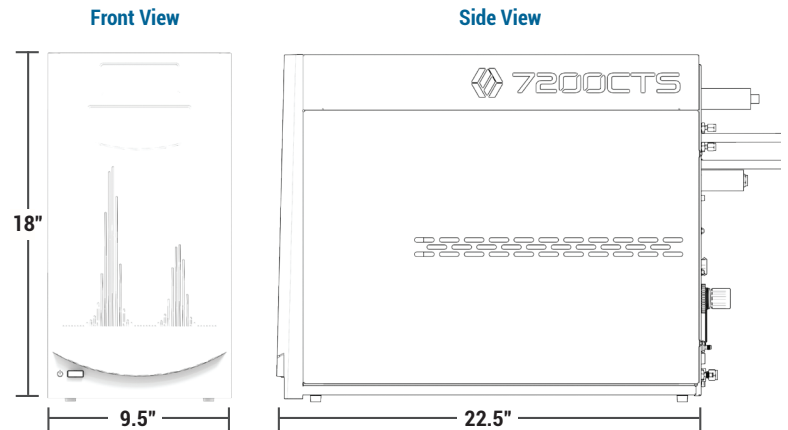
Design and Performance Specs

- No solenoids or mass flow controllers in sample path
- Compatible with EPA Method TO14A, TO15, and TO-15A
- Much faster trap cooling compared with Peltier Cooled Systems (3-4 min vs 15-20 min)
- Utilizes advanced Silonite ceramic coated stainless steel tubing throughout the flow path
- Sequel Database reports saved after each run for better reporting/monitoring of runtime parameters
- Achieves detection limits of <0.02 PPB for EPA Method TO15/TO15A Compounds (MDLs are GCMS dependent)
- Faster cleanup and superior hygiene relative to packed trap preconcentrators
- Does not suffer from adsorbent channeling effect like packed trap preconcentrators
- Uses Entech's SmartLab 2 Network using USB connections on WIN10 and later computers

Features Exclusive to 7200, 7200A and 7200CTS Preconcentrators

- Accu-Sample Technology for superior low volume measurements while reducing cross contamination and carryover
- Optional built in loop injection valve, 0.5 to 1cc loop, with full CO₂ management prior to GCMS injection
- Opt. 7650 "Million Air System" for 0.1cc loop for extended dynamic range and rapid sample screening
- Silonite-D coated tubing featuring a shorter flow path, fewer bends, and more inert surfaces
- Digitally controlled rotary valve actuators that can stop "between ports". Reduced cross contamination and more accurate small volume measurement
- Electronic Volume Control technology measures volume directly rather than indirectly (mass flow controllers), producing more accurate volume determination for all sample types, but especially for high CO₂, methane, Helium, and H₂ samples

- Greater modularity for easier servicing
- SmartLab 2 network maintains Windows connectivity with more integrated components
- 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: None
- Gases: UHP Helium or Nitrogen - 40-90 psig, Air/N₂ - 20-40 psig
- Operating Environment: 10 - 30° C



M1/M2 Multi-Capillary Column Trapping System (MCCTS)

M1 High capacity trap contains 3 capillary traps of varying strengths to trap all EPA Method TO15/TO-15A compounds for backflushing to second M2 stage for focusing. Particle volume size in M1/M2 capillary traps have internal volumes 300-1000x smaller than typical packed traps, allowing faster thermal release of trapped VOCs, and more complete dry purge removal of water vapor, from 0-100% RH

M2 MCCTS trap has shorter, multi-stage capillary column trap for final focusing before back desorption into a GC

Sample Volume

10-300 cc using EVC volume control. Internal loop 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

Heated Regions

Module 1 High Capacity Trap (200° C), Module 2 Focusing Trap (200° C) 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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