

Automatic Thermal Desorption System

# chrozen ATD



# chroZen ATD

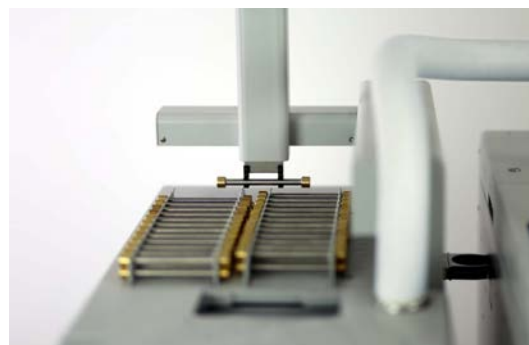
## What Do You Breathe?

**ChroZen ATD** is an automated thermal desorption system which enhances productivity by 50 sorbent tubes capacity and smart sequence overlapping function. With two-stage desorption, it also utilizes versatile thermal desorption by concentrating volatile and semi-volatile organic compounds collected on a sorbent tube into a focusing trap to enable the analysis of VOCs at trace level with the superior sensitivity. The ChroZen ATD guarantees more reliable data through inert sample path using SilcoNert® up to 350°C of heating capability and automatic leak check before every desorption while minimizing the carryover for reproducible results.



## Key Features :

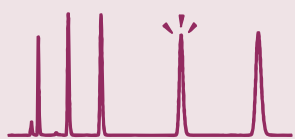
- 50 Sorbent tubes capacity
- Compatible with any GC and GC/MS
- Intuitive touch screen for easy control
- Fully independent integrated pneumatic control
- Peltier-type trap cooling system
- Inert sample path up to 350°C of heating capability
- Automatic leak sensing before each desorption



	Status	
Seq	Stage	Ready
Method	Stage time, hh : mm : ss	00 : 00 : 00
Log	Tube oven temperature, C	0 / 22
	Trap temperature, C	10 / 10
System	Valve temperature, C	250 / 250
	Transfer line temperature, C	250 / 250
Service	Carrier gas flow, ml/min	5 / 5
	<input type="button" value="Start"/> <input type="button" value="Stop"/> <input type="button" value="Pause"/>	

### Remarkable Sensitivity

Peltier type cooling system requires no need of any cooling agents and allows efficient desorption/adsorption through a wide range of temperature, rapid heating rate and accurate temperature controls.



### Great Compatibility

ChroZen ATD has fully independent pneumatic control and easy controllable touch screen interface for great compatibility with any GC or GC/MS on the market.



## Insight of ChroZen ATD

### Superior Reliability

The innovative dry-purge procedure eliminates interferences by moisture and air to ensure the superior sensitivity and reproducibility.

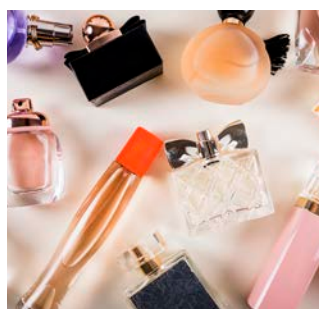


### Re-collection Available

ChroZen ATD is available with split flow and re-collection to re-concentrate the sample for further analysis. This is useful for analysis of samples in high-concentration and helps to overcome the one-shot analysis limitation of conventional thermal desorption.







## Applications

- Environmental monitoring (indoor/outdoor and ambient air)
- Emission testing (Automobile interior materials)
- Residual solvents (packaging for food and pharmaceuticals)
- Flavors and fragrances (food and cosmetics)
- Compliance with
  - : Standard Methods US EPA TO-14, TO-15, TO-17, ISO 16017-1, 16017-2, 16000-6, 12219 and ASTM D6196

## Specifications

Tube size	Outer diameter: 1/4" (6.35 mm); Length: 3.5" (89 mm)
Tray capacity	50 tubes
Tube desorption temperature, °C	from (ambient +10°C) to 425 (1°C resolution)
Trap temperature, °C	from -20 to 425
Trap heating rate, °C/min	500, 1000, 1500, 2000, 2500, 3000
Valve temperature, °C	150 to 350
Transfer line temperature, °C	40 to 350
Sample path	SilcoNert® 2000 & SS 316 activity tested, heated up to 350°C
UPC	3 built-in channels: Carrier gas, Purge gas & Split vent (optional)
Carrier gas flow rate, ml/min	0 to 200
Purge gas flow rate, ml/min	0 to 200
Control	Software or Touchscreen
Dimensions (WxDxH) & Weight	345x550x630 mm & 30 kg
Power supply & consumption	220V AC, 50/60Hz, 700W
Interface	LAN
Compatibility	Any GC

## Related Tools

### Dual Channel Air Samper

- Air sampling pump for US EPA TO-17
- Built-in battery for 24 hours run
- Maximum precision and consistent reliability by flow controller
- Fast and easy sampling set-up

### Sorbent Tubes

- Compatible with other manufacturers' sorbent tubes
- Stainless steel or glass
- Single- or multi-bed sample tubes



### Sorbent Tube Conditioner

- Simultaneous conditioning up to 10 tubes
- Getting rid of moisture from sorbent tubes
- Temperature range from 50°C to 400°C



### Injection Unit

- For injecting gas or liquid calibration standard
- Efficient target compound collection in a sorbent tube
- Elimination of solvent and moisture





60, Anyangcheondong-ro, Dongan-gu, Anyang-si,  
Gyeonggi-do, 14042, Korea  
TEL : +82-31-428-8700 / FAX : +82-31-428-8787  
E-mail : export@youngincm.com  
Homepage : www.youngincm.com



Young In Chromass products are endorsed by Korean PPS(Public Procurement Service) in recognition of their excellent technologies and the product quality.