

Automatic Thermal Desorption System

chrozen ATD



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

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Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://youngin.nt-rt.ru/> || ybn@nt-rt.ru

chroZen ATD

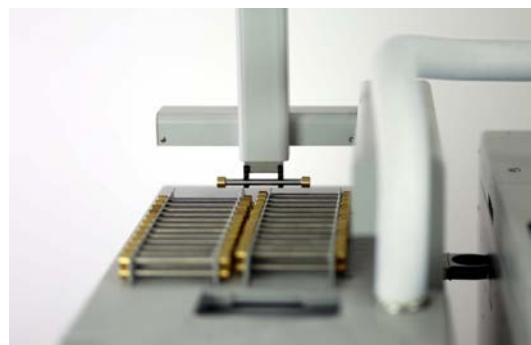
What Do You Breathe?

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 :

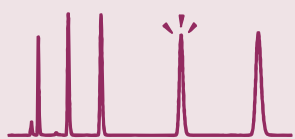
- 50 Sorbent tubes capacity
- Compatible with any GC and GC/MS
- Intuitive touch screen for easy control
- Fully independent integrated pneumatic control
- Peltier-type trap cooling system
- Inert sample path up to 350°C of heating capability
- Automatic leak sensing before each desorption



	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	
	Start	Stop	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



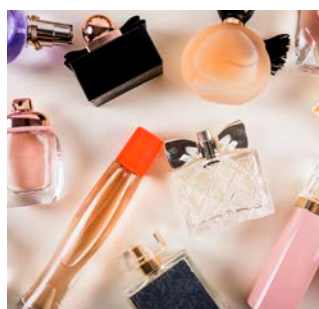
Superior Reliability

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





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