# μ-TD3



Micro-Trap/Thermal Desorption

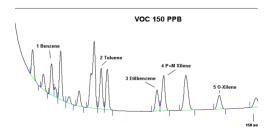
#### Specifically for the use with Micro-Gas-Chromatography

Gas Chromatography is widely used for chemical analysis because of its high resolution capability. Micro-GCs are popular because of their small size and autonomous operation. Micro-GCs measure into the low ppm range, however, on occasion the user requirement is below that.

AIRSENSE Analytics has developed a **Trap/Thermal desorption unit** specifically designed to enhance the sensitivity and selectivity of the Agilent Micro-GCs. A micro-GC interfaced with the  $\mu$ -TD3 achieves lab quality results in the field.

Increase sensitivity by a factor from 10 to 1000. Adjust system parameters such as flow rate, temperatures and timing of the thermal desorption process using the Airsense control software. Operate the instrument with or without a PC attached to it.

The **µ-TD3** gas flow system is designed to fulfill all needs within the different applications of a Micro-GC



- on site or in the lab
- performing single analyses or continuous cyclic operation

#### Features:

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- Operates on 110 to 250 VAC or 12 VDC
- different gases possible for sample transfer
- works with computer or stand-alone mode
- user interface: display, 1 button operation windows-software parameter adjustment
- runs a full cycle in just over 6 to 10 minutes
- Increases sensitivity by a factor or 10 to 1000
- Increases selectivity by the use of specific adsorbent materials
- different adsorbent materials available, quick replacement
- specifically designed for the operation with Micro-GCs

## Specifications

### Sampling



Inlet Sampler	made of stainless steel and Teflon <sup>®</sup> heated tube up to 150°C, special fluidic and electrical connector			0	Į
Inlet Detector	made of stainless steel, connection per swagelok to $\mu$ GC heated tube up to 150°C, special fluidic and electrical connector				
Flow	adjustable : 50 to 500 ml/min		0	0	0
Temperatures	for samplingadjustable : typical 30°Cfor desorptionadjustable : up to 250°C (during cleaning higher)	0	0	I	0
Condition	non-condensing gas of 0°C to 45°C				
Adsorbent	different adsorbent materials available, most common Tenax TA $^{\rm (B)}$ 50/100 mg or Tenax TA/Active Charcoal combination 100/50 mg	0	I	0	I
Tube holder	holder for one adsorbent tube which can be easily replaced				
System	one internal pump for sampling, internal multiport valve, heated	I	0	0	0
Cycle time	typical 10 min full cycle : sampling, desorption, injection, cleaning and cooling	0	•	•	T
Cycle operation	single or continuous cycle	0	0	0	L
Repeatability	<1%, typical				
Environment Requirem	ents	0	0	0	0
Temperature	typical : 0°C to 45°C				
Humidity (relative)	5% to 95%, non-condensing	Ι	0	I	0
Power Requirement					and and
Main Power	110 to 230VAC or 12VDC (optional), max. 80W	I	T	0	I
Communication					
Computer Interface	USB port or serial RS-232 (optional)	Т	0	Т	0
Electrical Interface	TTL & relay, for devices attached to the unit		U		U
Device Control / Data Handling			~	~	-
Requirements	Win98SE, ME, 2000, XP	0	0	0	0
Software	TTD-Terminal				
Display	60 x 38 mm grey, CFC backlight text display	0	I	0	Ι
<b>Dimensions and Weight</b>	t				
Weight	2.3 kg	L	0	I	I
System	255 x 190 x 92mm				
Safety class	Compliant to EN292 Part1 & 2, EN294, EN61010-1, EN1050, EN60204-1, EN 55011 G1 CB, EN50270, EN61326		0	0	I
Warranty	12 month				
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