

PREMIUM LAB INSTRUMENT

APK 720R

THERMAL DESORPTION SYSTEM

AUTOMATED
MULTI SAMPLER FOR
72 SORBENT TUBES!

UP TO 72 TUBES!

LCD STATUS
WINDOW



THERMAL DESORPTION SYSTEM

The analytical technique of Thermal Desorption system is used to analyze VOC's in air or solid materials. The process works by heating a sorbent material that collected VOC's and then subsequently releases them when heated for analysis. It used for a variety of applications including air, toys, building materials, car cabins and food. This automated multi thermal desorption unit APK720R has high performance that can analyze very low ppb level of VOCs with up to 72 sorbent tubes. This can use analyze canister, sampling bag as well (Optional).

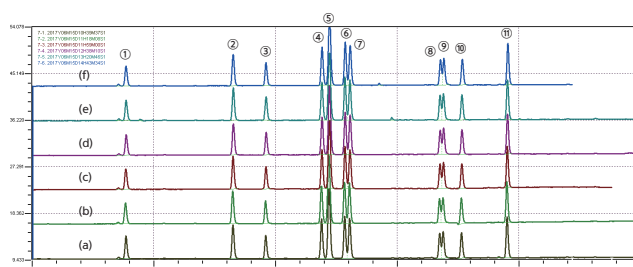
※ Page 04 Reference, APK2600

FEATURES

- Compatible with most Gas Chromatograph instruments (Agilent, PerkinElmer, Shimadzu and etc..)
- Fully Automated analysis up to 72 Tubes
- Applications for BTEX, TO 14~16, PAMS and etc..
- LCD monitoring screen
- Excellent performance and reasonable price
- Drying Purging Function (eliminating moisture)

APPLICATION

- TD : Desorption 280°C for 1min, Focusing -20°C for 15min,
Injection 280°C for 5min
- GC Detector : FID
Column : VB-1 (60m x 0.32mm x 2.0 μ m), 1.5ml/min
- VOCs 11 Compounds (5 ppb)



Compound	Area										
	① Benzene	② Toluene	③ n-Butyl Acetate	④ Ethyl benzene	⑤ m/p-Xylene	⑥ Styrene	⑦ o-Xylene	⑧ 1,4-dichlorobenzene	⑨ 1,3-dichlorobenzene	⑩ 1,2-dichlorobenzene	⑪ Undecane
Sample (a)	296,082	455,174	293,958	512,122	1,039,038	546,014	543,841	313,903	352,743	328,748	510,293
Sample (b)	292,713	435,141	290,215	500,826	1,013,862	539,728	532,952	301,683	352,043	342,978	504,183
Sample (c)	287,293	433,695	288,508	500,624	1,007,753	539,182	527,322	302,871	344,342	324,012	501,741
Sample (d)	277,817	425,811	285,951	498,177	1,005,791	535,613	526,148	308,472	342,159	323,594	502,504
Sample (e)	276,880	428,104	314,535	498,135	1,010,979	539,352	534,771	312,629	342,882	325,993	505,981
Sample (f)	278,246	430,405	296,904	508,706	1,031,033	548,328	541,083	317,535	353,214	337,260	517,703
Average	284,839	44,722	295,012	503,098	1,018,076	541,370	534,353	309,516	347,897	330,431	507,068
*RSD(%)	2.94	2.44	3.50	1.17	1.34	0.88	1.33	2.04	1.52	2.40	1.19

SPECIFICATION

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Cooling type	Peltier	
Trap low temp.	-25°C	
Trap high temp.	400°C	
Valve Heat Temp. (Oven)	Max. 200°C	
Transfer Line	Silco-treated Line	Max. 250°C, Silco Steel 1/32"
Desorption Temp. (Sorbent Tube, Focusing Trap)	Max. 400°C	
Focusing trap	Glass	6mm (O.D.), 2 mm (I.D.), 110mm (L), Absorbents may vary depending on target sample
Sorbent Tube	Stainless Steel	1/4" (O.D.), 3.5" (L)
Split (Option)	MFC control	Max. 100:1
Dimension	350 x 600 x 450 (W x D x H mm) 350 x 700 x 845 (W x D x H mm)	Manual Type Include Tube Auto Sampler
Control	PC	APK Control II (APK720R only)
Various GC compatible	Agilent, Perkin Elmer, Shimadzu and etc..	
Power	110~230VAC, 50/60Hz, 1.8KW, 10A	