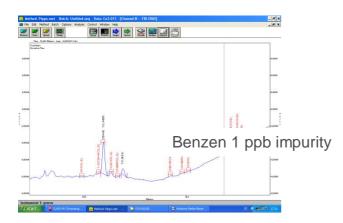
CRIOCONCENTRATOR

Improve sensibility to ppb level

The system provides to analyse:

- Sulphur compounds, 1-5 ppb level
- BTX, 1-5 ppb level
- Chlorineted compounds, 1-5 ppb level
- Bromurated compounds, 1-5 ppb level





Crioconcentrator

The system provides to :

- 1. block impurities into a Peltier-cooled trap
- 2. purge the sample matrix
- inject the concentrated sample into a capillary column connected to an FID detector



Communication with PC by RS232 interface



Peltier cooling system

- No Liquid gas need
- Monolithic or splitted box
- Power supply 230 VAC
- Approx weight 10 Kg

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CRIOCONCENTRATOR – CRIO 2[™]



Based on "Purge and Trap" analytical technique , the system provides to analyse: Sulphur compounds, 1-5 ppb level; BTX, 1-5 ppb level ; Chlorineted compounds, 1-5 ppb level; Bromurated compounds, 1-5 ppb level

The system provides to : block impurities into a Peltier-cooled trap purge the sample matrix inject the concentrated sample into a capillary column

Peltier cooling system No Liquid gas need Monolithic or splitted box Power supply 230 VAC Approx weight 25 Kg Communication with PC by RS232 interface

Benefits:

- Improve sensibility to ppb level
- Peltier cooling system
- No Liquid gas need
- Monolithic or splitted box

TECHNICAL DATA

weight	25 Kg	
Power supply	230VAC	
Absorbet power (MAX)	1500 W	
Heating	2 armored electrical resistance 400W	
0	8 Peltier 40W 24VDC	
Cooling		
cryoconcentration system	Pneumatic Valvea 10 ports dual column	
	Pneumatic Valvea 6 ports single column	
Sampling and Injection system	Pneumatic Valvea 8 ports dual column	
	Pneumatic Valvea 4 ports single column	
N° analysis Cycles	2 separate files	
Max temperature heating	+150°C	
Min temperature cooling	-5°C	
Medium heating ratio	+100°C per minute	
Medium cooling ratio	10°C per minute	
Analysis programmable cycles	1 to 99 minutes , 1 minute step	
Max number of Injection	1 to 99 , 1 step	
Injection and Purging time	1 to 99 seconds, 1 second step	
Start cooling after heating.	1 to 99 minutes , 1 minute step	
Heating time	1 to 99 seconds, 1 second step	
Column purging	1 to 99 seconds, 1 second step	
Cycle analysis time	1 to 99 minutes , 1 minute step	
Input digital	Start Cycle 1 – 2, GC ready	
Output digital	Ready, Start out, analysis running	

CRIOCONCENTRATOR – CRIO 2 [™]

GAS STANDARD MIXTURES REQUIRED

H2S	0,2 ppm
COS	0,2 ppm
CH3SH	0,2 ppm
CS2	0,2 ppm
SO2	0,2 ppm
	COS CH3SH CS2

Aromatic hydrocarbons e chloroderivatives

Benzene	C6H6	0,2 ppm
Toluene	C7H8	0,2 ppm
Metaxilene	C8H10	0,2 ppm
Ethylbenzene	C8H10	0,2 ppm
Chloroform	CHCI3	0,5 ppm
1-2 Dichloroethane	C2H4CI2	0,5 ppm
Tetrachlorethylene	C2CI4	0,5 ppm
Bromine compounds		
Dichlorobromomethane	CHCI2Br	0,5 ppm
Dibromochloromethane	CHBr2CI	0,5 ppm
Bromoform	CHBr3	0,5 ppm

The gas mixtures are indispensable for the calibration of the system of analysis, in order to identify the impurities and to calculate the response factor of the system



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