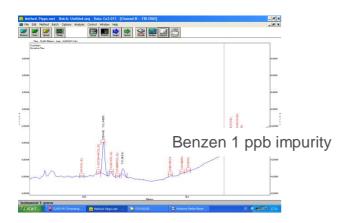
CRIOCONCENTRATOR

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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