Technical Data Sheet

DRP 4

Manual Syringe Headspace for GC

DRP4 - economical solution enables you to use the headspace technique to measure volatile and semi-volatile compounds in your sample without additional sample preparation. The system does not connect directly with the GC and it can be used with any existing gas chromatography system.
The high cost of automated headspace systems limited the headspace technique uses, but now, DRP4 with low ownership cost and advanced design archives excellent performance with high accuracy and reproducibility.

Application range:
Manual headspace DRP4 is an ideal tool to analyze compounds with low boiling point temperatures for low and medium throughput laboratories and can be used for environmental monitoring, forensic and pharmaceutical analysis, oil and petrochemicals applications.

- Hydrocarbon traces in soil
- Solvent traces in drugs
- Alcohol in blood
- Flavor analysis in food
- Light Hydrocarbons in oil
- VOC analysis in water
- Methanol/Ethanol in Drinks
- Volatile compounds in plastic & polymers
- Residual Solvent Analysis
- and many others

DRP4 Key features:

- Standalone and compatibly with any gas chromatograph
- Low ownership and service cost
- Syringe purging by inter gas
- Easy to use
- CPU controller with Integrated timer
- Air Removing from the vial

Temperatures Sensors:
The temperature modes in headspace analysis are very important to get reliable results. And DRP4 has a possibility for digital calibration of all temperatures sensors with accuracy: 0.1 ˚C

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Technical Specification:

General Specification:

Operating principle	Syringe headspace sampling
Syringe type:	Special headspace SGE Diamond ™ Syringe
Vial incubator working principle:	Heating & Shaking
User interface:	4-line LCD display, complete monitoring and control parameters

Syringe heating:

Volume	1 or 2.5 ml
Sample volume range:	0.1 – 2.5 ml
Syringe temperature:	35 … 150˚C
Syringe temperature setpoint resolution:	0,1 ˚C
Syringe cleaning :	Purging by inert gas from the top through syringe barrel
Syringe purging time:	1 … 99 min
Needle:	Fixed in the syringe barrel, side hole needle tip

Vial Incubator:

Vial incubator capacity:	4 vials
Vial size:	20 mL and 10 mL
Vial incubator temperature:	35 … 150˚C
Incubator temperature setpoint resolution:	0,1 ˚C
Shaking method:	Orbital
Shaking speed:	Fast / Slow / Off
Shaking cycles :	On / Off, 1 … 999 sec
Vial incubation time:	1 … 999 min
Analytical cycle time:	1 … 999 min

Environmental Conditions:

Ambient Operating Temperature:	from 10 to 35°C
Relative humidity:	not more than 80 %
Storage Temperature:	from -50 °C to 50°C
Power Requirements:	~220V ±10%, 50Hz
Power consumption:	150 W

Other specification:

Dimensions: (WxDxH);	245 mm x255 mm x 150 mm
Weight:	7 kg

Safety and Certification:

Products designed and manufactured under regulations of GOST R ISO 9001 quality standard.

At electromagnetic compatibility the chromatograph meets the requirements of IEC 61010-1

Information and technical specification in this publication are subject to change without notice.

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