

UCS 1000

Ultimate Carrier Solution



Touchscreen panel: electronic selection of alternative carriers (Nitrogen/Helium)

Burner unit: completely eliminates all excess chemicals & carrier gas

Controller unit: full control of the delivery of carrier gas

Automated protection against flame off, power loss, low gas supply pressure & more

Safe use of Hydrogen as a carrier gas in GC and GCMS

Sion Technologies' patented Ultimate Carrier Solution (UCS) introduces a groundbreaking technology to the analytical industry, finally allowing laboratories to safely use Hydrogen in GC & GC/MS applications by burning all excess Hydrogen gas, split chemicals and fully controlling the supply of carrier gas to the GC and GC/MS.

Improved Analysis. Significant cost savings

UCS-1000 is a one-of-a-kind add-on to any Gas Chromatography system enabling laboratories to enjoy the full benefits of Hydrogen, introducing significant cost savings and efficiency improvements while operating in a safer and more environmentally friendly way.

UCS-1000 completely eliminates the release of hazardous gases and chemicals during analysis and saves more than 95% of the carrier costs.

UCS 1000

Key Benefits



Safe and reliable Hydrogen supply

UCS1000 eliminates dangers associated with Hydrogen



Continuous, effortless operation

works 24/7/365, without requiring ongoing maintenance or consumables



Higher throughput

by saving 50% of the analysis time



Fast ROI

95% cost savings compared to Helium



Environmentally friendly

completely eliminates the release of hazardous chemicals

Technical data

Physical Dimensions	194mm (W) x 195mm (D) x 385mm (H)
Operating Voltage / Current	100v-230v / 0.5A (5 & 15 V DC)
Weight	6.5 Kg
Touch Control Panel Size	4.3" (131mm x 78mm)
Split Flow	0-300 ml/min H2
Operating Temperature	130°C - 1,200°C
Fault Detection	<10 seconds
Adjustable Automatic Fault Recovery	Admin defined
Main Carrier	H2
Alternate Carrier	He or N2
H2 Consumption	H2 mode - up to 70 ml/min He Mode - up to 150 ml/min
Air Consumption	500-600 ml/min
Number of Injectors	Up to 2 splits/split-less for one GC
Input Ports	4 (H2, air, split 1-2, alternate carrier)
Output Ports	1 (selected carrier to GC)



Unique laboratory solutions, easy to use, efficient and cost-effective



Call: **972-4-8438992**

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Sion was Founded in 2015 by leaders in the field of analytical device manufacturing, Sion develops advanced laboratory analytical instruments and associated support systems. The Company's goal is to integrate knowledge, experience and ergonomics, in the development of analytical products, with the objective of making the impossible possible.