

UCS1000

Ultimate Carrier Solution

Safe use of Hydrogen in GC and GCMS

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

Improved Analysis. Significant cost savings.

UCS-1000 is a one-of-a-kind add-on to analytical instruments enabling labs to enjoy the full benefits of Hydrogen, introducing significant cost savings and efficiency improvements while allowing labs to operate in a safer and more environmental friendly way. It eliminates the release of hazardous gases and chemicals during analysis and saves more than 95% of carrier costs.

Controller unit:
Fully control of the
delivery of carrier gas

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



Burner unit:
Burning excess
chemicals &
carrier gas

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

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Key Benefits:



Safe and reliable Hydrogen supply.
UCS1000 eliminates dangers associated with Hydrogen



Higher throughput
by shortening analysis time.



Continuous, effortless operation - works 24/7/365, without requiring ongoing maintenance or consumables.



Fast ROI - 95% cost savings compared to Helium.



Environmental friendly - eliminates the release of hazardous chemicals.



Technical data:

Physical Dimensions	194mm (W) x 195mm (D) x 35mm (H)
Operating Voltage / Current	100v-230v / 0.5A (5 & 15 V DC)
Weight	1.5 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	40-60 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)

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.

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