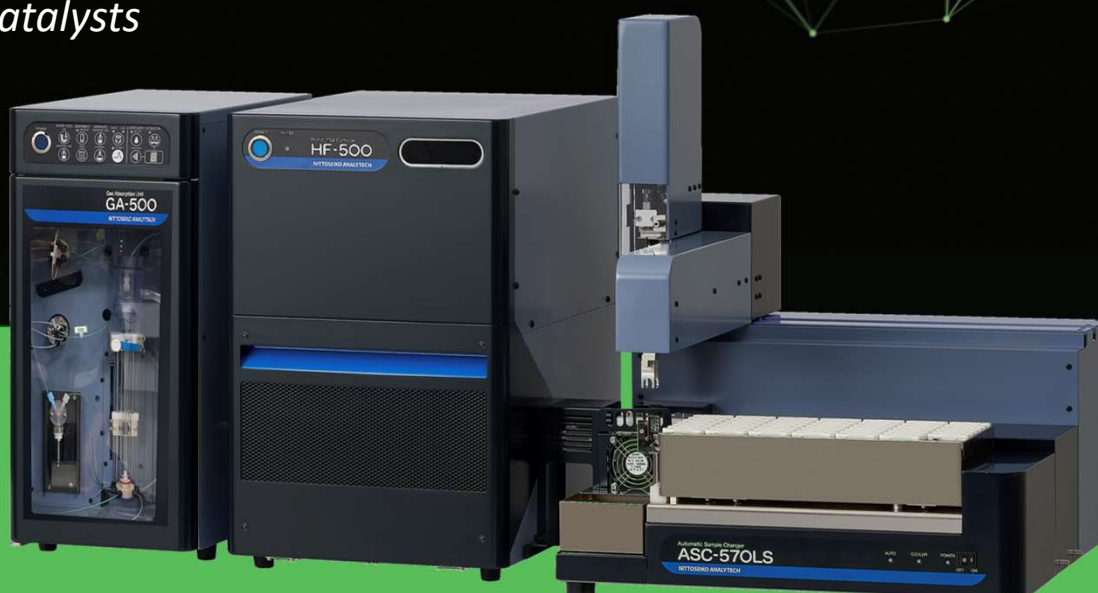


Halogen analysis incl. Fluorine: Fast, versatile and robust

Official testing methods

ASTM: D5987, D7359, D8150, UOP 991, ISO 19242, EN 17813

- *PFAS*
- *EOF*
- *TF*
- *TOF*
- *TOX*
- *EOX*
- *AOX*
- *AOF*
- *Battery materials*
- *Quality control environmental samples*
- *Products catalysts*



Automatic Quick Furnace for
Combustion Ion Chromatography

AQF-5000H

Horizontal Furnace Model



Mandel Scientific Inc.

www.mandelsci.com | tel: (844) 4MANDEL - (844) 462-6335

Nittoseiko Analytech Co., Ltd.

Features

- **USER-FRIENDLY SOFTWARE**

New

Newly designed software with improved user experience.

- **WIDE CONCENTRATION RANGE ANALYSIS**

New

Newly designed absorption tube for easy switching between applications in a wide range of concentrations. Advanced liquid handling with possibility for multiple analysis with different dilutions out of one combustion/absorption. Sample collector add on for storage and further analysis.

- **PLUG-IN OPTION DESIGN**

New

Optional units can be integrated directly into the absorption unit, combining smart appearance, quick upgrade possibility and easier maintenance.

- **SWITCHING TWO SOLUTIONS FOR ABSORPTION SOLUTION**

New

Automated switching between applications requiring pure water or requiring additives.

- **EASY, SECURE AND REPEATABLE COMBUSTION**

Easily customizable combustion programs that provide reliable combustion with full recovery.

- **HIGHLY SENSITIVE AND ACCURATE ANALYSIS**

Highly sensitive and accurate analysis is enabled by optimizing all components for low instrument blanks and emphasizing repeatability and precision of all process steps from sample introduction through combustion to keeping the final absorption volume truly constant.

- **EASY MAINTENANCE**

Easy accessibility of all relevant parts including combustion tube ensures minimum downtimes, reduces consumable wear and maintains precision over a long period of time.

- **PARALLEL OPERATION FOR HIGH THROUGHPUT**

Parallel operation of sample preparation (combustion) and ion chromatography (quantification) enables fast cycling times and increases sample throughput (or number of replicates).

Options

- **ASC-570LS**

Automatic Sample Changer for solid and liquid sample

Solid: 49 positions

Liquid: 84 positions (4 mL vial),

120 positions (2 mL vial)



- **ABC-500**

Automatic Boat Controller



- **ES-500**

External Solution selector (built-in)

- **CM-500**

Combustion Monitor (built-in)

Standard specifications

AQF-5000H

Sample introduction	Automated boat control
Sample	Solid, Liquid
Amount	1 – 150 mg (solid), 5 – 100 µL (liquid)
Sample Pyrolysis	High purity quartz tube (ceramic option)
Electric furnace	Max. 1,100 °C, Openable electric furnace, 2 heating zones (Temperature individually controlled)
Injection to IC	Loop 100µl (5, 20, 50, 200, 500, 1000 µL option)
Tubing material	Fluoro-resin (low blank), PEEK
Signal output	Contact signal to start Ion Chromatograph
Gas	Argon (purity 99.98 % or higher, 0.3 ± 0.1 MPa)
	Oxygen (purity 99.7 % or higher, 0.3 ± 0.1 MPa)
Power supply	AC100-240VAC, 50/60 Hz