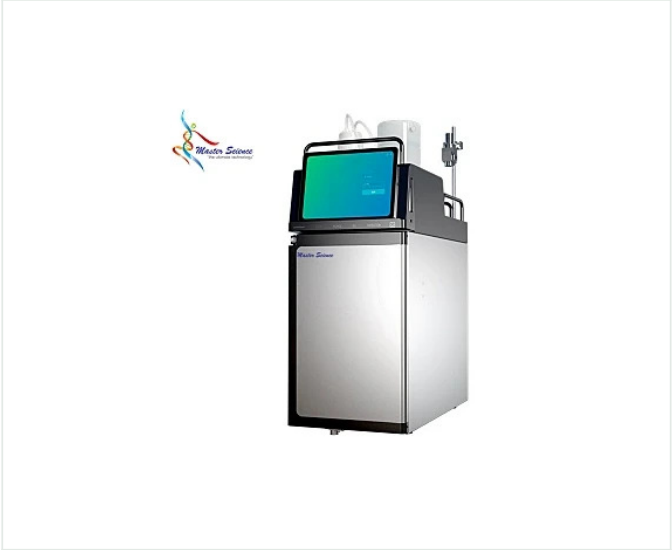
Ion Chromatograph System - Reagent-Free IC with Eluent Generator - 42 MPa PEEK Pump - Oven to 70°C

Model **MSIC-W6300SWISS** | Brand **Master Science**





The Master Science Ion Chromatograph System is an integrated, intelligent IC built around an in-line eluent generator and a built-in gradient pump made of PEEK. The eluent is produced by electrolysis of deionised water, so the operator no longer prepares it by hand.

KEY HIGHLIGHTS

- Reproducible eluent
- No metal contamination
- Quiet baseline
- Room to grow
- Simple servicing

AT A GLANCE

temperature-controlled oven, suppressor and detector.
BASELINE DRIFT WITH ROOM TEMPERATURE

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

Every wetted part, from the eluent reservoir to the tubing and fittings, is non-metallic. Pump, column oven, detector and eluent generator are separate modules, and the instrument can be coupled to UV, MS, MS/MS and ICP-MS detectors for more demanding work.

> For organic compound separations, see the Master Science HPLC liquid chromatography system.

Overview

- Reagent-free operation from deionised water
- Supports isocratic and gradient elution
- Purification system removes trace impurity ions

Key Benefits

Reproducible eluent
the Master Science Ion Chromatograph System generates it electrolytically at a precise concentration.

No metal contamination
fully inert flow path.

Quiet baseline
electronic pulsation suppression on the pump.

Room to grow
plug-in detectors recognised by the software.

Simple servicing
clear, modular flow path.

Technical Specifications

GENERAL

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Eluent	In-line eluent generator with purification
Pump	PEEK, isocratic or gradient
Pump Pressure Rating	Up to 42 MPa
Flow Path	Non-metallic: PEEK, PTFE and PP
Flow Path Pressure Resistance	Up to 6000 psi
Column Oven	Air bath, 5 °C above ambient to 70 °C
Electrochemical Modes	DC amperometric, pulsed amperometric, integrated pulsed amperometric
Hyphenation	IC-UV, IC-MS, IC-MS/MS, IC-ICP/MS
Design	Modular: pump, oven, detector and eluent generator independent

OPTICAL PERFORMANCE

Conductivity Detector	Digital, DSP-based, with built-in suppressor and dual temperature control
Detector Options	Conductivity, electrochemical, UV, fluorescence
Baseline drift with room temperature	temperature-controlled oven, suppressor and detector.

COMMON PROBLEMS AND HOW THIS SYSTEM HELPS

Common Problems and How This System Helps	How the Master Science Ion Chromatograph System tackles routine IC difficulties:
Eluent that varies from batch to batch	automatic in-line generation.
Corrosion and metal ions from steel parts	all-plastic flow path.
Complex sample matrices	on-line enrichment and matrix elimination.

Applications

The Master Science Ion Chromatograph System is applied in
Environmental analysis Food testing Pharmaceutical laboratories Semiconductor industry New energy materials

High Pressure Pump

- PEEK pump head
- Very low pressure pulsation
- Floating mechanical design extends pump and transducer life
- Switchable isocratic and gradient modes

Flow Path and Oven

- Acid- and alkali-resistant PEEK, PTFE and PP parts
- Colour-coded tubing
- Near-zero dead volume connections
- Eluent preheating in the column oven
- Optional high-pressure and low-pressure valves

Advanced Techniques

- Column switching reserved for two-dimensional chromatography
- On-line enrichment and matrix elimination through valve control

Optional Accessories

- Autosampler with sample cover, single or dual channel injection and 2 mL large-volume support
- Autosampler with up to 120 positions, auto dilution and temperature control
- Electrochemical, UV and fluorescence detectors
- Ion chromatography columns, guard columns and pre-treatment columns