# IC Driver
# for ICP-MS
# MassHunter
# Software

Your fully integrated
solution for trace elemental
speciation analysis

Ω Metrohm

# Trace elemental speciation made easy

The Metrohm IC Driver for Agilent's ICP-MS MassHunter Software provides the seamless integration of Metrohm ion chromatography systems with the ICP-MS instruments from Agilent Technologies. It combines superior technologies from two industry-leading brands to provide you with a premium solution for your analysis and speciation of trace elements such as chromium, arsenic, selenium, and mercury.

Thanks to the IC Driver from Metrohm, ion chromatography looks and feels like an integral part of ICP-MS MassHunter – the software you are familiar with. Benefit from intuitive control of your Metrohm IC with real-time status updates, see your IC method-specific parameters, and simplify your workflow with a single consolidated sample list.

With the Metrohm IC Driver for ICP-MS MassHunter Software you can also integrate the Metrohm Inline Sample Preparation (MISP) techniques into your IC-ICP/MS analysis. Techniques such as partial loop injection, inline dilution, and inline ultrafiltration make your analysis more efficient and allow the separation of ionic components even in the most challenging matrices (e.g., sludges, emulsions, samples with a high particle load).

## HIGHLIGHTS

- Single software solution for hyphenation of Metrohm IC with Agilent ICP-MS instruments
- Full integration and comprehensive control of Metrohm IC systems
- Ensures compliance with international standards and audit requirements
- Integral usage of Metrohm Inline Sample Preparation techniques for enhanced productivity
- Bi-directional communication for safe and economic laboratory operation, error-free data handling, and process control

## Two trusted partners with proven expertise in IC and ICP-MS

### WHY ION CHROMATOGRAPHY FROM METROHM?

Ion chromatography from Metrohm ensures metal-free analysis and provides the flexibility to use eluents of different compositions. Automation and unique inline sample preparation techniques make ion chromatography from Metrohm the most productive and efficient solution for the separation and analysis of ionic components even in challenging matrices. There is to this day no match to the patented Metrohm anion suppressor with a 10-year-warranty for a low baseline and highly stable IC-ICP/MS analyses.

### WHY ICP-MS AND ICP-MS MASSHUNTER SOFTWARE FROM AGILENT TECHNOLOGIES?
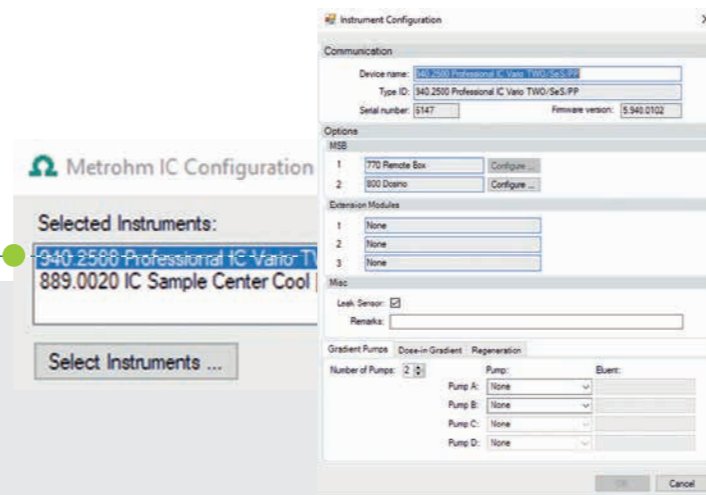
ICP-MS MassHunter is compliant with the latest requirements concerning data security, GMP, and electronic records. ICP-MS MassHunter excels by its user-friendly, workflow-focused interface simplifying start-up procedures and reducing the need for user-training. ICP-MS MassHunter incorporates smart maintenance feedback to minimize downtime and maintenance costs.

# Full integration of Metrohm IC into ICP-MS MassHunter Software



## 1   METROHM IC CONFIGURATION

Configuration of all IC components and functionalities, e.g., high-pressure or dose-in gradient, including report function with full traceability of all used instruments.
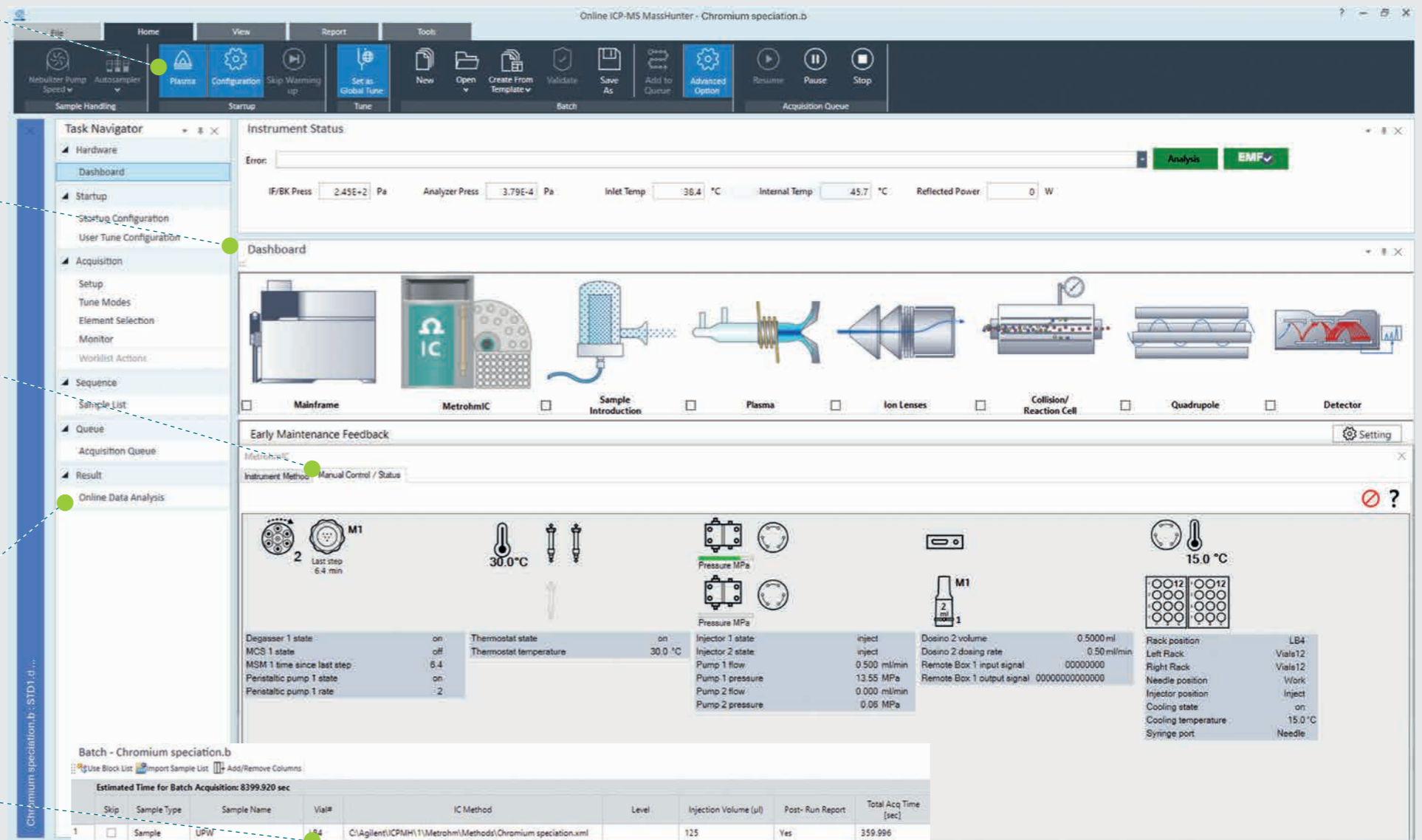
## 7   IC EQUIPMENT

The IC equipment for remote connection to Agilent ICP-MS is mandatory for bi-directional communication, i.e. stop of all instruments in case of an emergency of one party.

## 2   INTUITIVE WORKFLOW FOCUSED USER INTERFACE

Task navigator and ribbon bar menu for straight-forward handling without extensive software training requirements.

## 3   METROHM IC ACCESSIBILITY IN THE DASHBOARD

The Metrohm IC is a full component of the ICP-MS Dashboard and easily accessible out of this menu.

## 4   METROHM IC METHOD, MANUAL CONTROL/STATUS

Method designer, manual control, and status always available through the floating window. Manual control/Status enables manual activation of the individual IC components and gives their live status information. Methods can be created, saved, and sent to the instrument for equilibration. The full flexibility is given as e.g., parallel activities and implementation of inline sample preparation.

## 5   CHROMATOGRAPHIC DATA ANALYSIS

Intelligent chromatographic data analysis provides all features for accurate peak detection and quantification.

## 6   COMMON BATCH AND SAMPLE LIST

Combines ICP-MS batch features, ICP-MS method specifications, and IC methods. A specifically designed template includes all relevant IC parameters, e.g., injection volume, IC method, and a post run report function.
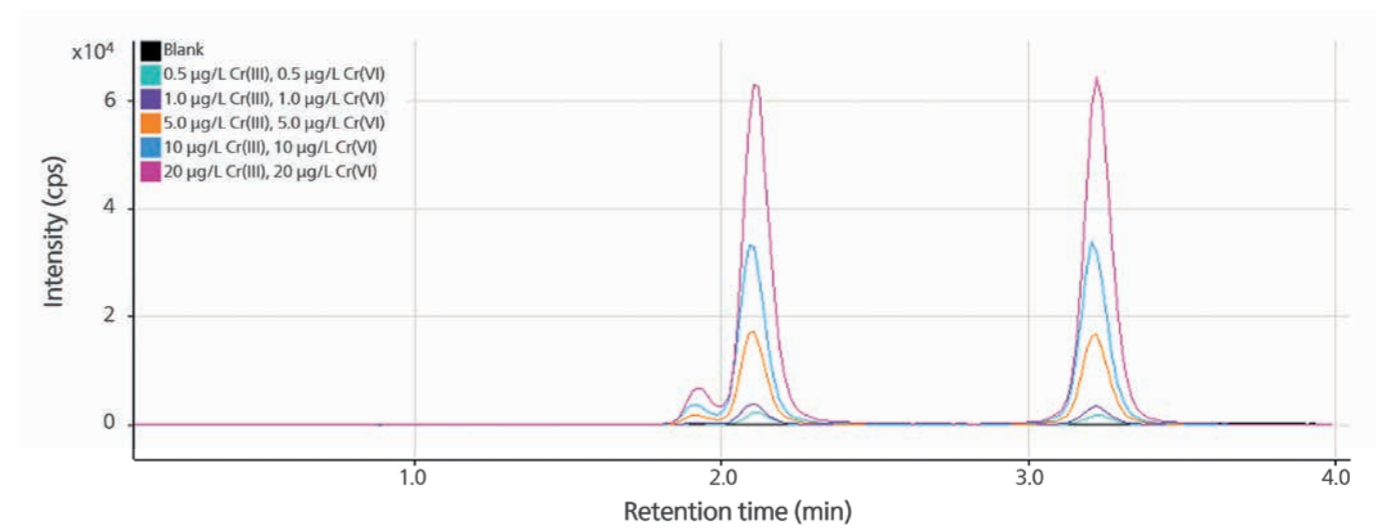
# Improve your analytical workflow and productivity with a single-software solution

### Streamline your lab analysis with the powerful combination of Agilent ICP-MS and Metrohm IC.
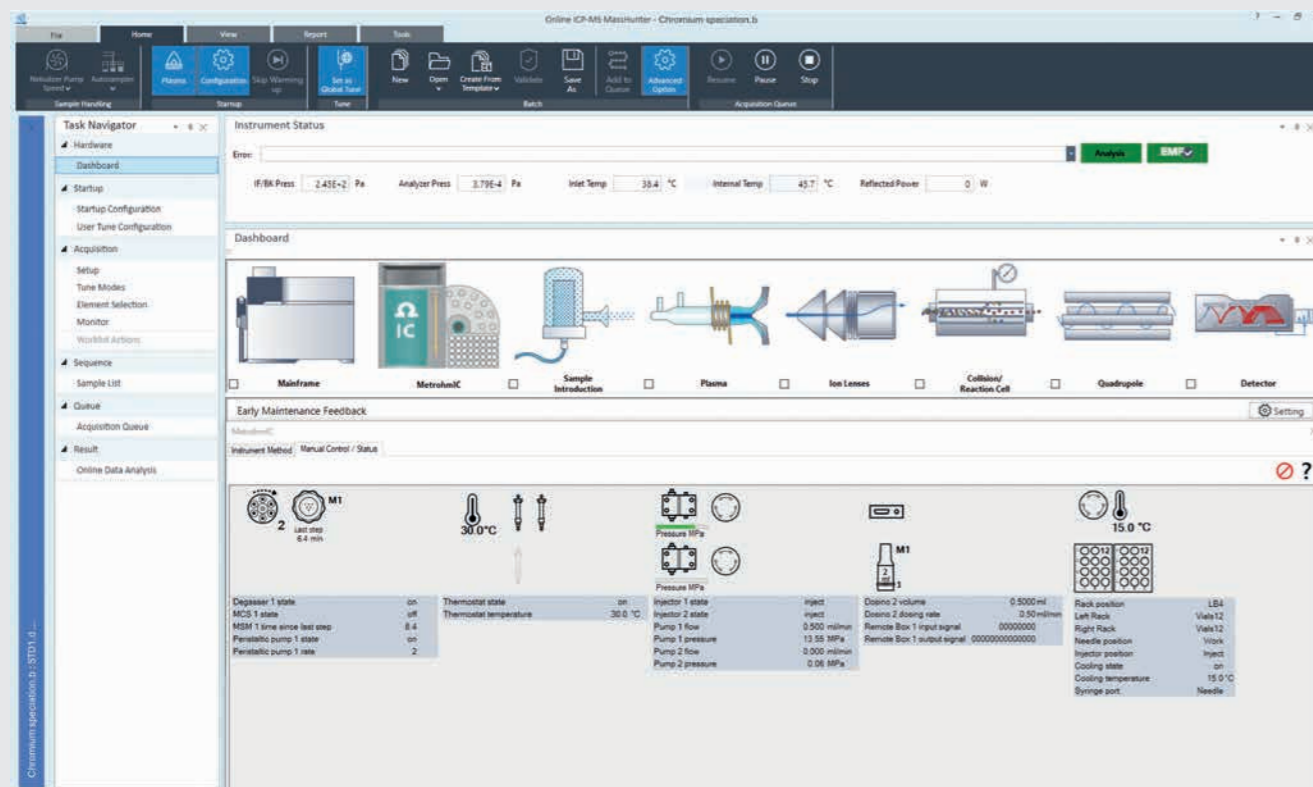


### Ensure compliance with international standards and audit requirements.
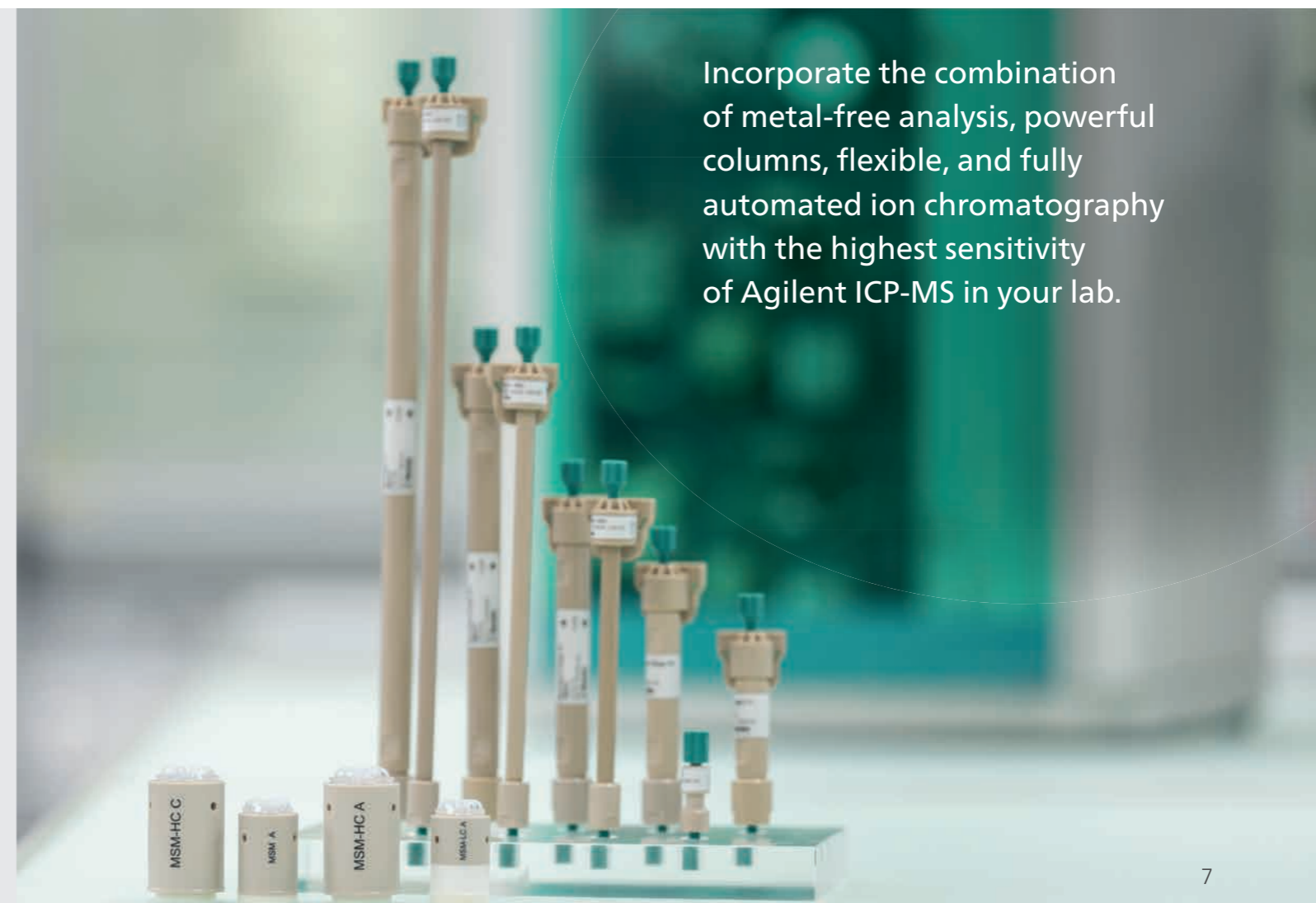
Speciation of chromium (III) and chromium (VI) in a range of 0.5 to 20 µg/L using IC-ICP/MS according to ISO 24384. Separation was performed on a Metrosep Carb 2 - 100/4.0 column using an ammonium hydroxide-nitric acid eluent.



### Simplify your workflow with our all-in-one software solution thanks to the IC Driver for ICP-MS MassHunter Software.



### Incorporate the combination of metal-free analysis, powerful columns, flexible, and fully automated ion chromatography with the highest sensitivity of Agilent ICP-MS in your lab.

## ORDERING INFORMATION

| **Metrohm IC Driver, ICP-MS MassHunter** | |
|---|---|
| 6.6090.100 | Metrohm IC Driver, ICP-MS MassHunter, Driver version 1.0 |
| 8.0102.8020EN | Tutorial Metrohm IC Driver, ICP-MS MassHunter |
| **Remote Box** | |
| 6.2148.010 | Remote Box MSB |
| **IC Equipment for remote connection to Agilent ICP-MS instruments** | |
| 6.05330.400 | IC equipment, connection Agilent ICP-MS including |
| 6.2149.310 | Connection Box, remote control ICP-MS |
| 6.2141.410 | Remote cable, IC – Agilent ICP-MS |
| 6.2141.420 | Connection cable, Remote Box MSB |
| 6.2141.430 | Connection cable, leak sensor |
| **Recommended equipment for Cr(III) and Cr(VI) speciation according to ISO 24384:2024** | |
| 6.1090.410 | Metrosep Carb 2 – 100/4.0 |
| 6.1090.500 | Metrosep Carb 2 Guard/4.0 |
| 2.930.2560 | 930 Compact IC Flex Oven/SeS/PP/Deg |
| 2.889.0020 | 889 IC Sample Center – cool |

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