930 Compact IC Flex



930 Compact IC Flex Oven/Deg/MB

Manual – Short Instructions 8.930.8121EN / v2 / 2023-12-31





930 Compact IC Flex 930 Compact IC Flex Oven/Deg/MB

2.930.2180

Manual - Short Instructions

Technical Communication Metrohm AG CH-9100 Herisau

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Table of contents

Table of contents

1	About this	quick start guide	1
2	Introduction	on	2
	2.1	Instrument description	2
	2.2	Accessories and additional information	4
	2.3	Symbols and conventions	4
3	Safety		6
	3.1	Intended use	6
	3.2	Responsibility of the operator	6
	3.3	Requirements for operating personnel	7
	3.4 3.4.1 3.4.2 3.4.3 3.4.4 3.4.5	Safety instructions General notes on safety Electrical safety Tubing and capillary connections Flammable solvents and chemicals Recycling and disposal	7 7 8 9
4	Overview o	of the instrument	10
	4.1	Front	10
	4.2	Rear	12
5	Installation	1	14
	5.1 5.1.1 5.1.2 5.1.3	Setting up the instrument Packaging Checks Location	14 14
	5.2	Capillary connections in the IC system	14
	5.3	Removing transport locking screws	15
	5.4 5.4.1 5.4.2	Connecting the drainage tubing and leak sensor Installing the drainage tubing Connecting the leak sensor	17
	5.5	Column oven	19
	5.6	Connecting the eluent bottle	19
	5.7	Connecting the eluent degasser	22
	5.8	Installing the high-pressure pump	22
	5.9	Installing an inline filter	22

Table of contents

	5.10	Installing the pulsation absorber	22
	5.11	Injection valve	22
	5.12	Installing the conductivity detector	22
	5.13	Connecting the sample degasser (optional)	23
	5.14	Connecting the instrument to a computer	24
	5.15	Connecting the instrument to the power grid	25
	5.16	Initial start-up	26
	5.17	Connecting and rinsing the guard column	28
	5.18	Connecting and rinsing the separation column	29
	5.19	Conditioning	31
6	Operation		33
	Index		34

Table of figures

Table of figures

Figure 1	Front	10
Figure 2	Rear	12
Figure 3	Removing the transport locking screws	16
Figure 4	Installing the tubing weighting and aspiration filter	21

1 About this quick start guide

This short instruction manual contains important chapters from the comprehensive manual. In addition to an introduction, safety instructions and an overview of the instrument, you will also find information about installing and operating the 930 Compact IC Flex Oven/Deg/MB as well as information regarding the warranty. The comprehensive manual can be downloaded as a PDF file from the Internet.

Downloading the manual

You can find the detailed manual on the Internet under http://www.metrohm.com/:

- 1. Enter the order number for your instrument as the search term (e.g. **2.930.2180**).
- 2. Click on **Documents**.
 All available documents for the instrument will be displayed.
- 3. Click on the PDF link to download the desired manual.

2 Introduction

2.1 Instrument description

The 930 Compact IC Flex is a robust ion chromatograph. It is distinguished by:

- Its intelligence: All of the functions are monitored, optimized and documented in an FDA-compatible manner. Intelligent components, such as iColumns, save important data onto a chip.
- Its compact design: It has a small footprint.
- Its transparency: All components are easily accessible and located for simple visibility and can be monitored during operation through a large window.
- Its safety: The wet end and the electronics are physically separated.
 This prevents fluids from coming into contact with the electronics to a large extent. A leak sensor is integrated into the wet end.
- Its environmental compatibility.
- Its low noise emission.
- The intelligent MagIC Net software.

The 930 Compact IC Flex is operated using the MagIC Net software. A USB cable is used to connect the device to a computer with MagIC Net installed. The intelligent software detects the device automatically and checks its functionality. The software controls and monitors the device, evaluates the measured data and manages it in a database.

The 930 Compact IC Flex Oven/Deg/MB consists of the following modules:

Housing

The sturdy housing contains the instrument's electronic components, including their interfaces and one connector for a separation column. In addition, the housing provides space for a conductivity detector or an amperometric detector. Capillaries and cables can be fed into and out of the instrument through several openings.

Leak sensor

The leak sensor detects leaking liquid that collects in the instrument's base tray. Liquid that leaks in the instrument is routed to the base tray using drainage tubing and detected there.

2 Introduction

Column oven

The column oven regulates the temperature for the separation column and the eluent, thereby providing stable measuring conditions. There is a column holder with chip reader in the column oven.

Eluent degasser

The eluent degasser removes gas bubbles and dissolved gases from the eluent.

High-pressure pump

The intelligent and low-pulsation high-pressure pump pumps the eluent through the IC system. It is equipped with a chip where its technical specifications and "life history" (operating hours, service data, etc.) are stored.

Inline filter

Inline filters protect the separation column reliably from potential contamination from the eluent. The filter pads with 2 μ m pore size can be replaced quickly and easily. They remove particles from the solutions, such as bacteria and algae.

Pulsation absorber

The pulsation absorber protects the separation column from damage caused by pressure fluctuations, e.g. when the injection valve is switched, and reduces interfering pulsations during highly sensitive measurements.

Injection valve

The injection valve connects the eluent path to the sample path. By a quick and precise switching of the valve, a quantity of sample solution defined by the size of the sample loop is injected and flushed to the separation column with the eluent.

Detector

Metrohm offers a series of different detectors for various analysis tasks. A suitable detector type must be ordered as a separate device.

Sample degasser

The sample degasser removes gas bubbles and dissolved gases from the sample.

Separation column

The intelligent separation column separates different components according to their interactions with the column. Metrohm separation columns are equipped with a chip where their technical specifications and history (start-up, operating hours, injections etc) are stored.

2.2 Accessories and additional information

Additional information is available on the Metrohm website (https://www.metrohm.com):

- Product family
- Product versions
- Accessories
- Documents about the product

Downloading the accessories list



NOTE

The accessories list is a part of the product documentation. Download the accessories list and store it as a reference.

- 1. Use the search function to search for the product.
- 2. Open the desired product version.
- Download the accessories list.

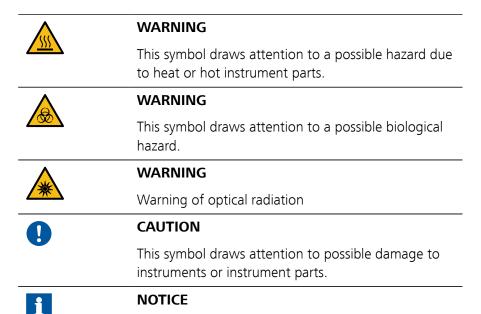
2.3 Symbols and conventions

The following symbols and formatting may appear in this documentation:

(5- 12)	Cross-reference to figure legend		
	The first number refers to the figure number, the second to the instrument part in the figure.		
1	Instruction step		
	Perform the steps one after the other.		
Method	Dialog text, parameter in the software		
File ► New	Menu or menu item		
[Continue]	Button or key		
	WARNING		
	This symbol draws attention to a possible life-threat- ening hazard or risk of injury.		
	WARNING		
7	This symbol draws attention to a possible hazard due to electrical current.		

2 Introduction

tips.



This symbol highlights additional information and

3.1 Intended use

3 Safety

3.1 Intended use

The 930 Compact IC Flex Oven/Deg/MB is used for the determination of cations, polar substances and anions without suppression using ion chromatography.

The 930 Compact IC Flex Oven/Deg/MB is suitable for the use of columns with a diameter of 2 mm.

This instrument is suitable for processing chemicals and flammable samples. Therefore, the use of the 930 Compact IC Flex requires the user to have basic knowledge and experience in handling toxic and caustic substances. Knowledge regarding the application of fire prevention measures prescribed for laboratories is also mandatory.

3.2 Responsibility of the operator

The operator must ensure that basic regulations on occupational safety and accident prevention in chemical laboratories are observed. The operator has the following responsibilities:

- Instruct personnel in the safe handling of the product.
- Train personnel in the use of the product according to the user documentation (e.g. install, operate, clean, eliminate faults).
- Train staff on basic occupational safety and accident prevention regulations.
- Provide personal protective equipment (e.g. protective glasses, gloves).
- Provide suitable tools and equipment to carry out the work safely.

The product may be used only when it is in perfect condition. The following measures are required to ensure the safe operation of the product:

- Check the condition of the product before use.
- Remedy defects and malfunctions immediately.
- Maintain and clean the product regularly.

3 Safety

3.3 Requirements for operating personnel

Only qualified personnel may operate the product. Qualified personnel are persons who meet the following requirements:

- Basic regulations on occupational safety and accident prevention for chemical laboratories are known and complied with.
- Knowledge of handling hazardous chemicals is present. Personnel have the ability to recognize and avoid potential dangers.
- Knowledge regarding the application of fire prevention measures for laboratories is available.
- Safety-relevant information is communicated and understood. The personnel can operate the product safely.
- The user documentation has been read and understood. The personnel operate the product according to the instructions in the user documentation.

3.4 Safety instructions

3.4.1 General notes on safety



WARNING

Operate this instrument only according to the information contained in this documentation.

This instrument left the factory in a flawless state in terms of technical safety. To maintain this state and ensure non-hazardous operation of the instrument, the following instructions must be observed carefully.

3.4.2 Electrical safety

The electrical safety when working with the instrument is ensured as part of the international standard IEC 61010.



WARNING

Only personnel qualified by Metrohm are authorized to carry out service work on electronic components.

3.4 Safety instructions



WARNING

Never open the housing of the instrument. The instrument could be damaged by this. There is also a risk of serious injury if live components are touched.

There are no parts inside the housing which can be serviced or replaced by the user.

Supply voltage



WARNING

An incorrect supply voltage can damage the instrument.

Only operate this instrument with a supply voltage specified for it (see rear panel of the instrument).

Protection against electrostatic charges



WARNING

Electronic components are sensitive to electrostatic charges and can be destroyed by discharges.

Do not fail to pull the power cord out of the power socket before you set up or disconnect electrical plug connections at the rear of the instrument.

The device is to be operated only with the door closed.

3.4.3 Tubing and capillary connections



CAUTION

Leaks in tubing and capillary connections are a safety risk. Tighten all connections well by hand. Avoid applying excessive force to tubing connections. Damaged tubing ends lead to leakage. Appropriate tools can be used to loosen connections.

Check the connections regularly for leakage. If the instrument is used mainly in unattended operation, then weekly inspections are mandatory.

3 Safety

3.4.4 Flammable solvents and chemicals



WARNING

All relevant safety measures are to be observed when working with flammable solvents and chemicals.

- Set up the instrument in a well-ventilated location (e.g. fume cupboard).
- Keep all sources of flame far from the workplace.
- Clean up spilled liquids and solids immediately.
- Follow the safety instructions of the chemical manufacturer.

3.4.5 Recycling and disposal



Properly dispose of chemicals and of the product to reduce negative effects on the environment and public health. Local authorities, waste disposal companies or dealers provide more detailed information on disposal. Observe the WEEE EU directive (WEEE = Waste Electrical and Electronic Equipment) for the proper disposal of waste electronic equipment within the European Union.

4.1 Front

4 Overview of the instrument

4.1 Front

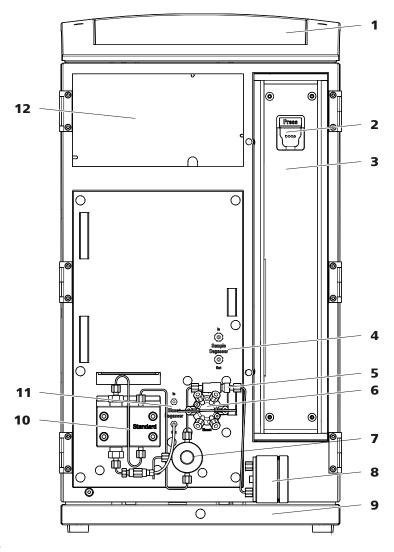


Figure 1 Front

- **1 Bottle holder**Offers space for the eluent bottle and additional accessories.
- 3 Column oven
- 5 Inline filter

2 Column holder

For hanging the separation column (iColumn). With column recognition.

- 4 Sample degasser
- 6 Injection valve

4 Overview of the instrument

7 Purge valve

For purging the high-pressure pump. With rotary knob in the center and pressure sensor.

9 Base tray

With leak sensor.

11 Eluent degasser

8 Pulsation absorber

10 High-pressure pump

Pumps the eluent through the IC system.

12 Detector chamber

Offers space for an embedded detector and additional accessories.

4.2 Rear

4.2 Rear

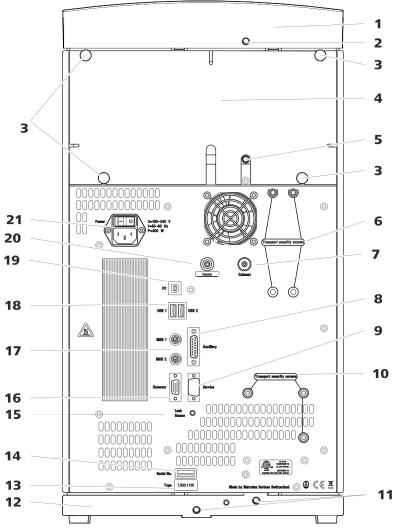


Figure 2 Rear

1 Bottle holder

3 Knurled screws

For fastening the removable back panel.

5 Drainage tubing connection

For connecting the drainage tubing, which guides escaped liquids away from the detector chamber.

2 Drainage tubing connection

For connecting the drainage tubing, which guides escaped fluids away from the bottle holder.

4 Back panel

Removable. Enables access to the detector chamber.

6 Transport locking screws

For securing the vacuum pump when transporting the instrument.

4 Overview of the instrument

7 Exhaust opening

Labeled *Exhaust*. For extracting the air from the vacuum chamber.

9 Service connection socket

For Metrohm service only.

11 Drainage tubing connections

For connecting two drainage tubings that guide the escaped fluid to the leak sensor and from there to the waste container.

13 Type plate

15 Leak sensor connection socket

Labeled *Leak Sensor*. For connecting the leak sensor connection cable.

17 MSB connection sockets

Labeled *MSB 1* and *MSB 2*. For connecting MSB devices.

19 PC connection socket

For connecting the instrument to the computer with the USB cable (6.2151.020).

21 Power socket

Power socket for connecting the power cable and power switch for switching the instrument on and off.

8 Auxiliary connection socket

For connecting an 891 Professional Analog Out (2.891.0010).

10 Transport locking screws

For securing the high-pressure pump when transporting the instrument.

12 Base tray

With leak sensor.

14 Serial number

16 Detector connection socket

Labeled *Detector*. For connecting Metrohm detectors.

18 USB connection sockets

Labeled *USB 1* and *USB 2*. For connecting USB devices.

20 Vacuum connection

Plugged with a stopper.

5.1 Setting up the instrument

5.1.1 Packaging

The instrument is supplied in protective packaging together with the separately packed accessories. Keep this packaging, as only this ensures safe transportation of the instrument.

5.1.2 Checks

Immediately after receipt, check whether the shipment has arrived complete and without damage by comparing it with the delivery note.

5.1.3 Location

The instrument has been developed for operation indoors and may not be used in explosive environments.

Place the instrument in a location of the laboratory which is suitable for operation and free of vibrations and which provides protection against corrosive atmosphere and contamination by chemicals.

The instrument should be protected against excessive temperature fluctuations and direct sunlight.

5.2 Capillary connections in the IC system

Capillary connections



NOTE

Sprays of chemicals caused by capillaries slipping out

If you work with an increased system pressure (> 15 MPa), capillaries may slip out of the pressure screws. This can lead to sprays of chemicals.

To avoid this, we recommend

- degreasing the ends of the capillaries before installing them.
 Dampen a cloth with acetone and wipe off the ends of the capillaries before connecting them with the pressure screws.
- tightening the pressure screws firmly using a wrench (6.2739.000).

In order to achieve optimum analysis results, capillary connections in an IC system must be absolutely tight and free of dead volume. Dead volume

occurs if 2 capillary ends connected to each other do not fit exactly, thus allowing liquid to escape. There are 2 possible causes for this:

- The capillary ends do not have exactly flat edges.
- The two capillary ends do not completely meet.

One prerequisite for dead-volume-free capillary connection is that both capillary ends are cut exactly flat. Therefore we recommend cutting PEEK capillaries only with a capillary cutter (6.2621.080).

Also see: *Cutting capillaries* video on the Internet *http://ic-help.metrohm.com*.

Creating dead-volume-free capillary connections

To create dead-volume-free capillary connections, proceed as follows:

- **1** Wipe off the end of the capillary with a cloth dampened with acetone.
- 2 Slide the pressure screw over the capillary. Ensure that the capillary protrudes 1 to 2 mm from the tip of the pressure screw.
- **3** Push the capillary into the connection or coupling as far as it will go and hold it there.
- 4 Only then start turning the pressure screw. Hold the capillary in the stop position while turning it shut.

5.3 Removing transport locking screws

To avoid damage to the drives for the high-pressure pump and the vacuum pump during transport, the pumps are secured with transport locking screws. These are located at the rear of the instrument and labeled with **Transport security screws**.

Remove these transport locking screws before the initial start-up.

Accessories

For this step you need:

• 4 mm hex key (6.2621.030)

Removing the transport locking screws

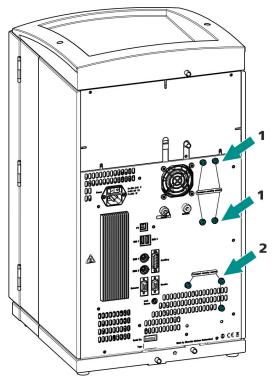


Figure 3 Removing the transport locking screws

1 Transport locking screws

For the vacuum pump. Only present if the instrument has a degasser or a CO_2 Suppressor (MCS).

2 Transport locking screws

For the high-pressure pump.

Store the transport locking screws in a safe place. Reinsert the transport locking screws each time you transport the instrument a significant distance.



CAUTION

The pumps may be damaged if you transport the instrument without inserting the transport locking screws.

5.4 Connecting the drainage tubing and leak sensor

The leak sensor detects leaking liquid that collects in the instrument's base tray. Liquid that leaks in the bottle holder or in the detector chamber is conveyed to the base tray using drainage tubing and is detected there.

If the leak sensor detects a leak in the IC system, the IC instrument is switched off. The software displays a warning.

The leak sensor functions properly only if the following preconditions are met:

- The drainage tubing is connected.
- The leak sensor connection cable is inserted into the leak sensor connection socket.
- The 930 Compact IC Flex is switched on.
- The leak sensor is switched to **active** in the software.

5.4.1 Installing the drainage tubing

Liquid that leaks in the bottle holder or detector chamber flows to the rear of the instrument. Openings on the bottle holder and in the detector chamber allow the liquid to drain. The drainage tubing has to be mounted at these openings. This drainage tubing guides the leaking liquid to the base tray where the leak sensor is located.

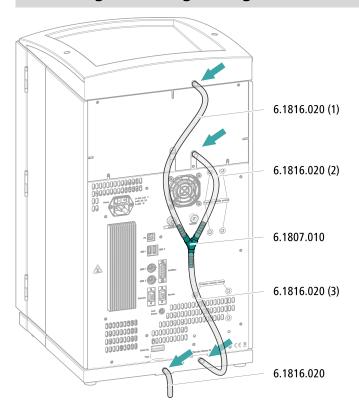
Accessories

For this step you need the following parts from the accessory kit: Vario/Flex Basic (6.5000.000):

- 2 × silicone tubing (6.1816.020)
- Y connector (6.1807.010)

You also need scissors.

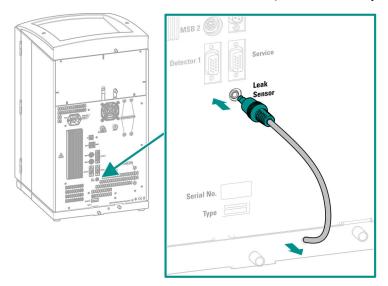
Connecting the drainage tubing



5.4.2 Connecting the leak sensor

Plugging in the leak sensor connection cable

The leak sensor connection cable is coiled up in the base tray.



5.5 Column oven

The column oven is completely connected. No installation work is required.

5.6 Connecting the eluent bottle

The eluent is aspirated out of the eluent bottle via the eluent aspiration tubing . The eluent aspiration tubing is installed on the entry to the eluent degasser.

Accessories

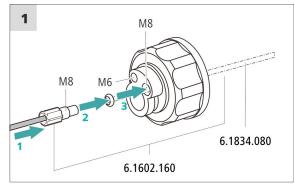
For this step, you need the following accessories:

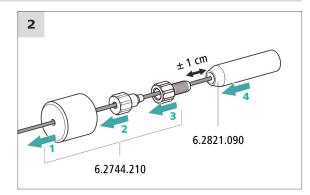
These parts are part of the Vario/Flex ONE accessory kit (6.5000.010).

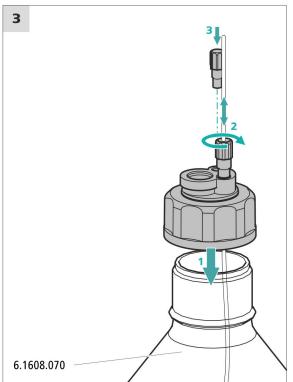
- Eluent bottle (6.1608.070)
- The *eluent bottle cap GL 45* accessory set (6.1602.160)

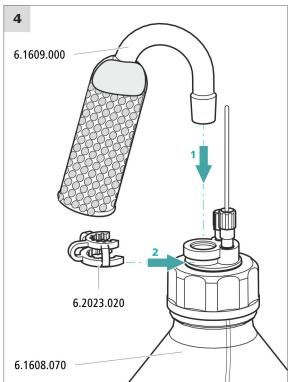
 This accessory set contains the bottle cap, an M6 tubing nipple, an M8 tubing nipple, two O-rings and an M6 and M8 threaded stopper.
- The tubing adapter for aspiration filter accessory set (6.2744.210)
 This accessory set contains a filter holder, a clamping screw and tubing weighting.
- An aspiration filter (6.2821.090)
- The adsorber tube (6.1609.000)
- The SGJ clip (6.2023.020)

Connecting the eluent aspiration tubing









1 Pre-rinsing the aspiration filter



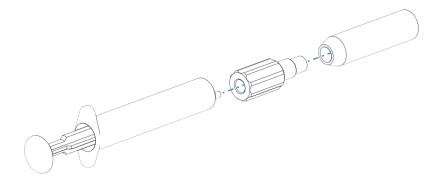
NOTE

Always wear gloves when handling the aspiration filter.

In order to avoid air bubbles after the installation of the aspiration filter, we recommend pre-rinsing the aspiration filter with ultrapure water or eluent.

For pre-rinsing, you will need the adapter Luer inner, M6 outer (6.02744.050), a syringe and a vessel with ultrapure water or eluent.

- Screw the adapter to the aspiration filter.
- Insert the syringe into the adapter.



- Immerse the aspiration filter tin a vessel with ultrapure water or eluent
- Fill the syringe completely with ultrapure water or eluent 3 times and then empty it again each time.

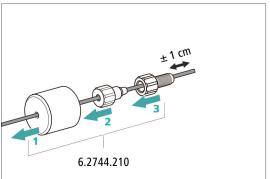
2 Mounting the aspiration filter



NOTE

Always wear gloves when handling the aspiration filter.

- Place the loose end of the eluent aspiration tubing into the aspiration filter
 - The end of the tubing should reach approximately to the center of the aspiration filter.
- Tighten the aspiration filter to the filter holder.



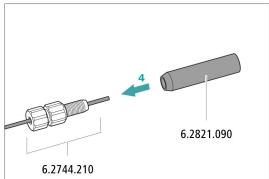


Figure 4 Installing the tubing weighting and aspiration filter

5.7 Connecting the eluent degasser

The eluent degasser is completely connected. No installation work is required.

5.8 Installing the high-pressure pump

The high-pressure pump is completely connected. No installation work is required.

5.9 Installing an inline filter

The inline filter is completely connected. No installation work is required.

5.10 Installing the pulsation absorber

The pulsation absorber is installed between the high-pressure pump and the injection valve. It protects the separation column from damage caused by pressure fluctuations, e.g. when the injection valve is switched, and reduces interfering pulsations during highly sensitive measurements.

The pulsation absorber is completely connected. No installation work is required.

5.11 Injection valve

The injection valve is completely connected. No installation work is required.

5.12 Installing the conductivity detector

The 930 Compact IC Flex provides enough space for one detector and additional accessories in the detector chamber. The detector is available as a separate device and is supplied with a separate manual.



NOTE

For ideal performance, Metrohm recommends using the 930 Compact IC Flex Oven/Deg/MB in combination with the IC Conductivity Detector MB (2.850.9020).

Placing the detector in the instrument

Follow the instructions in the chapter *Inserting the detector* in the manual for the detector.

Connecting the detector to the eluent path



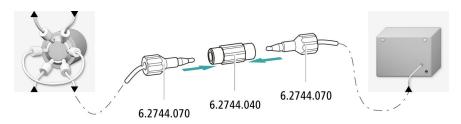
NOTE

The separation column is not inserted into the instrument until it is being started up for the first time. Until then, the detector inlet capillary has to be connected directly to the column inlet capillary using a coupling (6.2744.040).

Accessories

For this step, you need the following accessories:

- Coupling (6.2744.040)
- 2 × pressure screw (6.2744.010)



5.13 Connecting the sample degasser (optional)

Gas bubbles in the sample lead to poor reproducibility, as the amount of sample in the sample loop is not always the same. Therefore, we recommend degassing samples that contain gas before injection.



NOTE

The sample degasser does not have to be connected. We recommend only using the sample degasser if the application requires it.

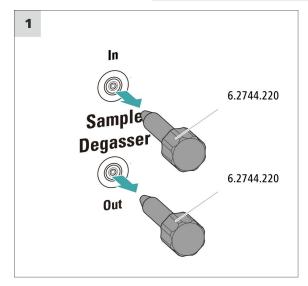
The rinsing time increases by at least two minutes when the sample degasser is connected.

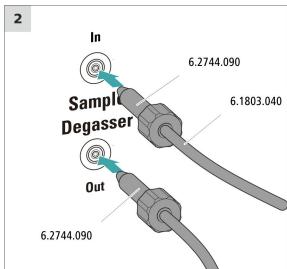
Accessories

For this step, you need the following accessories:

- 2 × pressure screw, long (6.2744.090)
- PTFE capillary (6.1803.040)

Connecting the sample degasser







CAUTION

If the sample degasser is not used, the inlet and outlet **must** be sealed with threaded stoppers (6.2744.220).

5.14 Connecting the instrument to a computer



NOTE

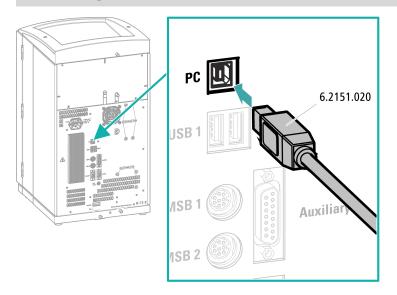
If the instrument is connected to the computer, then it must be switched off.

Accessories

For this step, you need the following accessories:

 USB connection cable (6.2151.020) from the accessory kit: Vario/Flex Basic (6.5000.000)

Connecting the USB cable



- 1 Insert the USB cable into the computer connection socket on the rear of the instrument.
- 2 Insert the other end into a USB port on the computer.

5.15 Connecting the instrument to the power grid



WARNING

Electric shock from electrical potential

Risk of injury by touching live components or through moisture on live parts.

- Never open the housing of the instrument while the power cord is still connected.
- Protect live parts (e.g. power supply unit, power cord, connection sockets) against moisture.
- Unplug the power plug immediately if you suspect that moisture has gotten inside the instrument.
- Only personnel who have been issued Metrohm qualifications may perform service and repair work on electrical and electronic parts.

Connecting the power cord

Accessories

Power cord with the following specifications:

5.16 Initial start-up

- Length: max. 2 m
- Number of cores: 3, with protective conductor
- Instrument plug: IEC 60320 type C13
- Conductor cross-section 3x min. 1.0 mm² / 18 AWG
- Power plug:
 - according to customer requirement (6.2122.XX0)
 - min. 10 A



NOTE

Do not use a not permitted power cord!

1 Plugging in the power cord

- Plug the power cord into the instrument's power socket.
- Connect the power cord to the power grid.

5.16 Initial start-up

Even before the guard column and separation column are installed, the entire system must be completely rinsed with eluent for the first time.

Rinsing the IC system



CAUTION

The separation column and the guard column are not permitted to be installed at the time of the initial start-up.

Make sure that a coupling (6.2744.040) is being used instead of the columns.

1 Preparing the software

- Start the **MagIC Net** computer program.
- Open the Equilibration tab in MagIC Net: Workplace ➤ Run ➤ Equilibration.
- Import (or create) a suitable method.
 Also see: MagIC Net Tutorial and online help.

2 Preparing the instrument

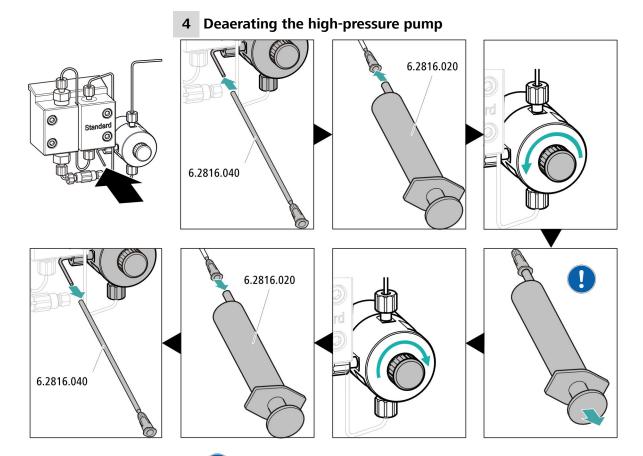
• Ensure that the eluent aspiration tubing is immersed in the eluent and that there is enough eluent in the eluent bottle.

• Switch on the instrument.

MagIC Net detects the instrument and all of its modules.

3 Starting the equilibration

Start the equilibration in MagIC Net: Workplace ➤ Run ➤ Equilibration ➤ Start HW.



Use the syringe to aspirate eluent until there are no more air bubbles in the eluent aspiration tubing.

5 Rinsing the instrument without columns

Rinse the instrument (without columns) with eluent for 10 minutes.

A 2 mm column produces more backpressure than a 4 mm column. Therefore, the recommended flow range in a 2 mm system is 0.1–0.4 mL/min. To reduce the rinsing time, a higher flow can be selected when flushing without column and with the purge valve open.

5.17 Connecting and rinsing the guard column



CAUTION

New guard columns are filled with solution and sealed with stoppers or caps on both sides.

Before inserting the guard column, ensure that this solution can be mixed with the eluent being used (follow the information provided by the manufacturer).



NOTE

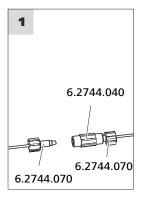
Only connect the guard column after the initial start-up of the instrument (see chapter 5.16, page 26). Until then, replace the guard column and the separation column with couplings (6.2744.040).

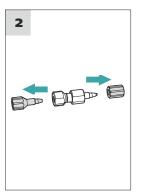
Accessories

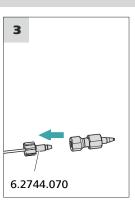
For this step, you need the following accessories:

• Guard column (suitable for separation column)

Connecting the guard column







Rinsing the guard column

1 Rinsing the guard column

- Place a beaker under the guard column's outlet.
- Start manual control in MagIC Net and select the high-pressure pump: Manual ➤ Manual control ➤ Pump
 - Flow: in accordance with column leaflet
 - On

- Rinse the guard column with eluent for approx. 5 minutes.
- Stop the high-pressure pump in the manual control in MagIC Net again: **Off**.

5.18 Connecting and rinsing the separation column



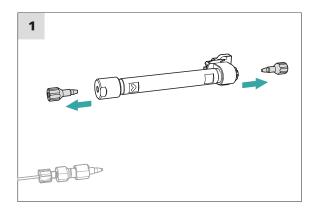
CAUTION

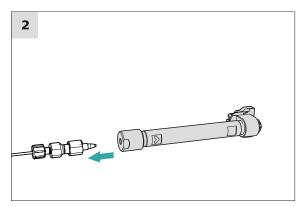
New IC Columns are filled with solution and sealed with stoppers on both sides. Before inserting the column, ensure that this solution can be mixed with the eluent being used (follow the information provided by the manufacturer).

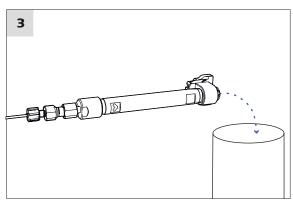


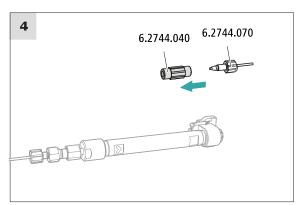
NOTE

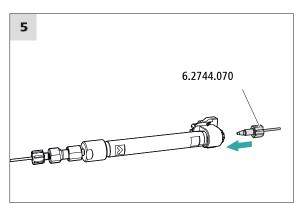
Connect the separation column only after the initial start-up of the instrument. Until that point, insert a coupling (6.2744.040) instead of the guard column and separation column.

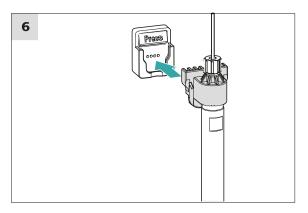












Connecting the separation column

1 Rinsing the separation column

- Place a beaker under the outlet of the separation column.
- Start manual control in MagIC Net and select the high-pressure pump: Manual ➤ Manual control ➤ Pump
 - Flow: Increase gradually up to the flow rate recommended in the column leaflet.
 - On
- Rinse the separation column with eluent for approx. 10 minutes.

• Stop the high-pressure pump in the manual control in MagIC Net again: **Off**.

5.19 Conditioning

In the following cases, the system must be conditioned with eluent until a stable baseline has been reached:

- After installation
- After each time the instrument is switched on
- After each eluent change



NOTE

The conditioning time can lengthen considerably if the composition of the eluent is modified.

Conditioning the system

1 Preparing the software



CAUTION

Ensure that the configured flow rate is not higher than the flow rate permitted for the corresponding column (refer to the column leaflet and chip data record).

- Start the **MagIC Net** computer program.
- Open the Equilibration tab in MagIC Net: Workplace ➤ Run ➤ Equilibration.
- Select (or create) a suitable method.
 Also see: MagIC Net Tutorial and online help.

2 Preparing the instrument

- Ensure that the column is inserted correctly in accordance with the flow direction marked on the sticker (arrow has to point in the direction of flow).
- Ensure that the eluent aspiration tubing is immersed in the eluent and that there is enough eluent in the eluent bottle.

3 Starting the equilibration

Start the equilibration in MagIC Net: Workplace ➤ Run ➤ Equilibration ➤ Start HW.

5.19 Conditioning

Visually inspect whether all capillaries and their connections from the high-pressure pump to the detector are leak-tight. If eluent is leaking out anywhere, tighten the corresponding pressure screw further, or loosen the pressure screw, check the end of the capillary and shorten it using the capillary cutter if necessary and retighten the pressure screw.

4 Conditioning the system

Continue rinsing the system with eluent until the desired stability level for the baseline has been attained .

The instrument is now ready for measuring samples.

6 Operation

6 Operation

The 930 Compact IC Flex Oven/Deg/MB is operated solely using the MagIC Net software. You can find information on operating the software in the tutorial for MagIC Net or in the online help.

Index

Index

Α
Aspiration tubing for eluent 20
В
Baseline
Condition 32
<u>C</u>
Capillaries
Installation 14
Column
see "Separation column" 29
Computer connection 24
Conditioning
Connect
Connect to power grid 25
To computer 24
Connections
Installation 14
Installation14
D
Degasser
Sample degasser 23
Drainage tubing
Installation 17
<u>E</u>
Electrostatic charge 8
Eluent
Aspirate 20
Eluent bottle
Installation 19
Equilibration 27, 31
F
Filter
see "Inline filter" 22

G	
Guard column	
Installation	28
Rinse	28
H	
High-pressure pump	1.0
Protection	16
I	
IC column	
see "Separation column"	29
Injection valve	. 3
Installation	22
Inline filter	22
Installation	
Connections	14
Drainage tubing	17
Eluent bottle	19
Guard column	28
Injection valve	22
Leak sensor	18
Pulsation absorber	22
Sample degasser	23
Separation column	29
L	
Leak sensor	—
Installation	18
	27
P	
Power connection 25,	26
Pulsation absorber	20
Installation	22
1113(011011	22

R	
Rinse	
Guard column	28
Separation column	30
Rinsing	
Separation column	29
S	
Safety instructions	. 7
Sample degasser	
Installation	23
Separation column	
Installation	29
Protection 3,	22
Rinse	30
Rinsing	29
Service	. 7
Supply voltage	. 8
т	
Transport locking screws	15
Tubings	
Installation	14
v	
Vacuum pump	
Protection	16
Valve	
See also "Injection valve"	22