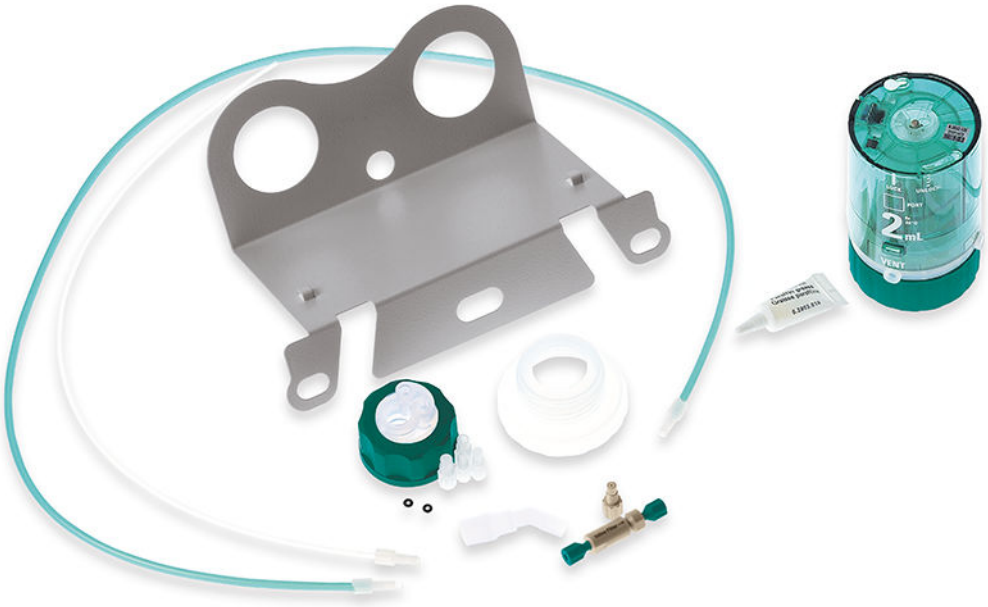
IC equipment



IC equipment: Dosino Regeneration (6.5330.190)

Manual

8.110.8036EN / v2 / 2024-07-02

Metrohm

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Technical Communication
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This documentation has been prepared with great care. However, errors can never be entirely ruled out. Please send comments regarding possible errors to the address above.

Disclaimer

Deficiencies arising from circumstances that are not the responsibility of Metrohm, such as improper storage or improper use, etc., are expressly excluded from the warranty. Unauthorized modifications to the product (e.g., conversions or attachments) exclude any liability on the part of the manufacturer for resulting damage and its consequences. Instructions and notes in the Metrohm product documentation must be strictly followed. Otherwise, Metrohm's liability is excluded.

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1 Introduction

1.1 Description of the IC equipment: Dosino Regeneration

The IC equipment: Dosino Regeneration enables the transfer of the regeneration solution for the suppressor by means of a Dosino instead of the peristaltic pump.

1.2 About the documentation

This manual describes the installation of the IC equipment: Dosino Regeneration.

CAUTION

Please read through this documentation carefully before putting the equipment into operation. The documentation contains information and warnings which the user must follow in order to ensure safe operation of the equipment.

1.2.1 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-threatening hazard or risk of injury.

	**WARNING** This symbol draws attention to a possible hazard due to electrical current.
	**WARNING** This symbol draws attention to a possible hazard due to heat or hot instrument parts.
	**WARNING** This symbol draws attention to a possible biological hazard.
	**WARNING** Warning of optical radiation
	**CAUTION** This symbol draws attention to possible damage to instruments or instrument parts.
	**NOTICE** This symbol highlights additional information and tips.

2 Overview

2.1 Parts of the IC equipment: Dosino Regeneration

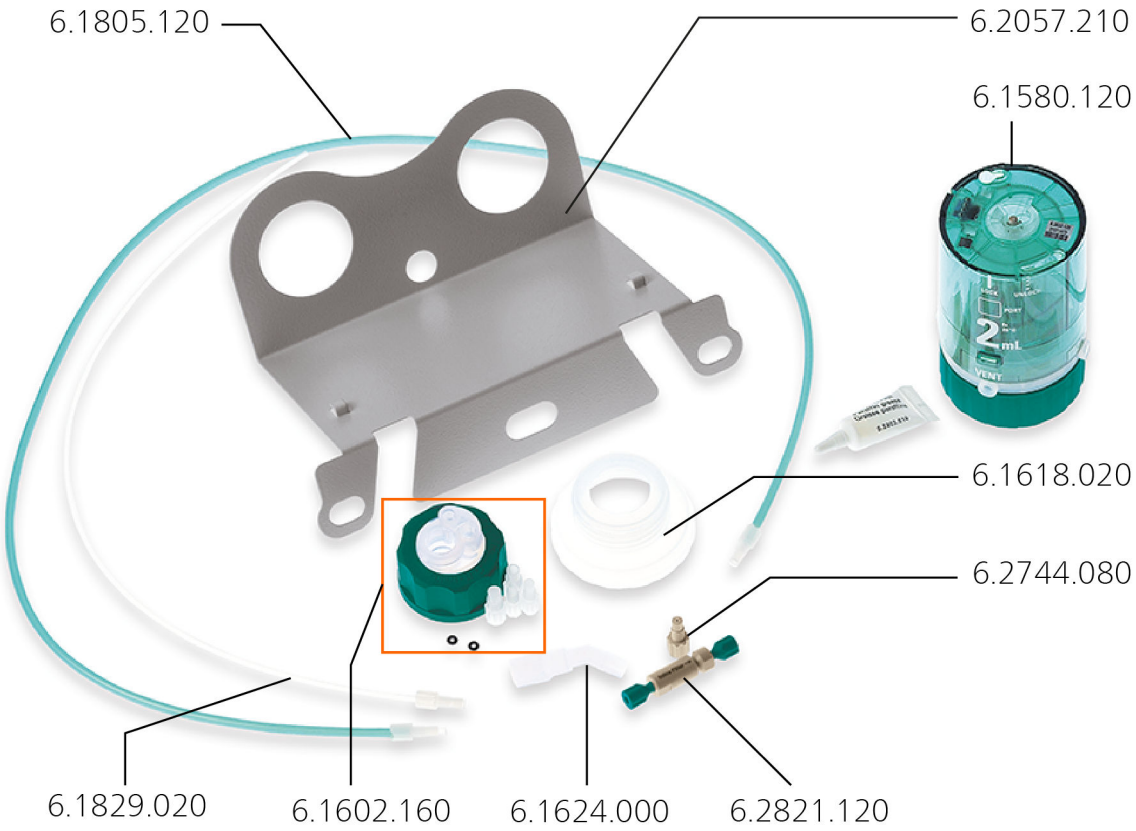


Figure 1 IC equipment: Dosino Regeneration – Parts

3 Installation

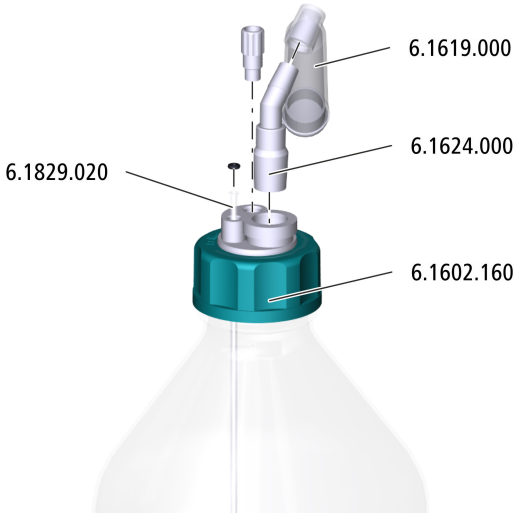
Proceed as follows to install the IC equipment: Dosino Regeneration:

- Attach the bottle cap to the regeneration solution bottle.
- Assemble the 800 Dosino and fasten it to the holder.
- Connect the Dosino to the bottle.
- Connect the Dosino to the inline filter.
- Connect the inline filter to the suppressor.

3.1 Attaching the bottle cap

Required accessories

- Bottle with regeneration solution
- Eluent bottle cap (6.1602.160)
- Adsorber tube (6.1619.000)
- Adapter for adsorber tube (6.1624.000)
- FEP aspiration tubing (6.1829.020)



1 Mounting the aspiration tubing

- Use the capillary cutter to cut the aspiration tubing to such a length that it touches the bottom of the bottle.
- Place the aspiration tubing in the M6 opening of the bottle cap.
- Place an O-ring in the M6 opening.

2 Inserting the stopper

- Tighten the M8 stopper to the M8 opening of the bottle cap.

3 Mounting the adsorber tube

- Fill the adsorber tube with some cotton and adsorber material.
- Place the adsorber tube onto the adapter.
- Insert the adapter into the SGJ opening of the bottle cap.

4 Mounting the bottle cap

- Screw the bottle cap onto the regeneration solution bottle.

3.2 Mounting the Dosino

Attaching the Dosino to the 807 Dosing Unit

Required accessories

- 800 Dosino (2.800.0010)
- 807 Dosing Unit 2 mL without accessories (6.1580.120)

CAUTION

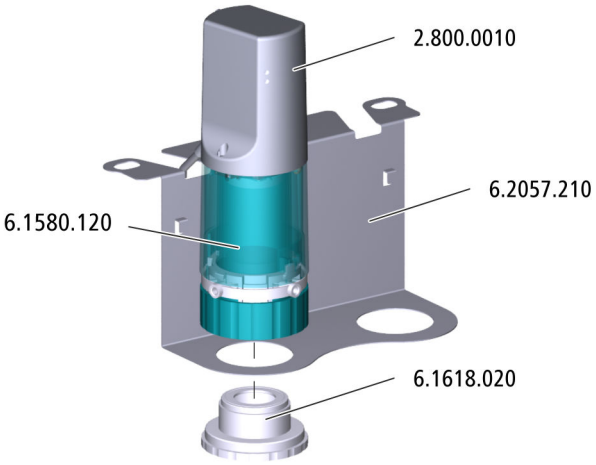
Please read through the correct procedure in the Manual for the 800 Dosino before you attach the Dosino to the 807 Dosing Unit.

1 Attach the Dosino to the 807 Dosing Unit, (*see Manual for the 800 Dosino*).

Fastening the Dosino to the ion chromatograph

Required accessories

- Dosino (2.800.010) with 807 Dosing Unit 2 mL without accessories (6.1580.120)
- Dosino holder (6.2057.210)
- Thread adapter (6.1618.020)



1 Fitting the Dosino holder onto the ion chromatograph

- Loosen the bottle holder on the ion chromatograph.
- Clamp the Dosino holder under it.
- Fasten the bottle holder again.

2 Attaching the Dosino to the holder

- Place the Dosino onto the Dosino holder.
- Fasten the Dosino to the Dosino holder by tightening the thread adapter from below.

3 Connecting the Dosino to the ion chromatograph

NOTE

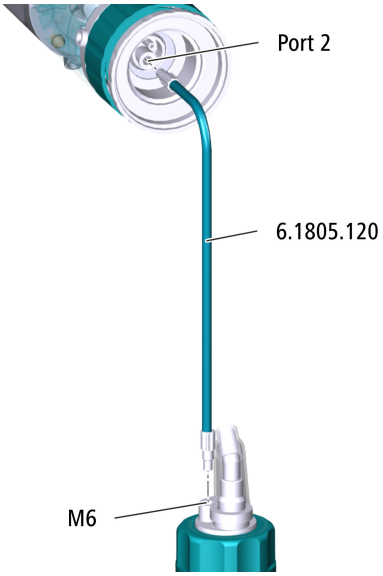
The ion chromatograph **must** be switched off when the Dosino is being plugged to the MSB connector.

- Check whether the ion chromatograph is switched on.
  If this is the case, switch off the ion chromatograph.
- Plug the Dosino cable into one of the ion chromatograph's MSB connectors.

3.3 Connecting the bottle and the Dosino

Required accessories

- FEP tubing (6.1805.120)

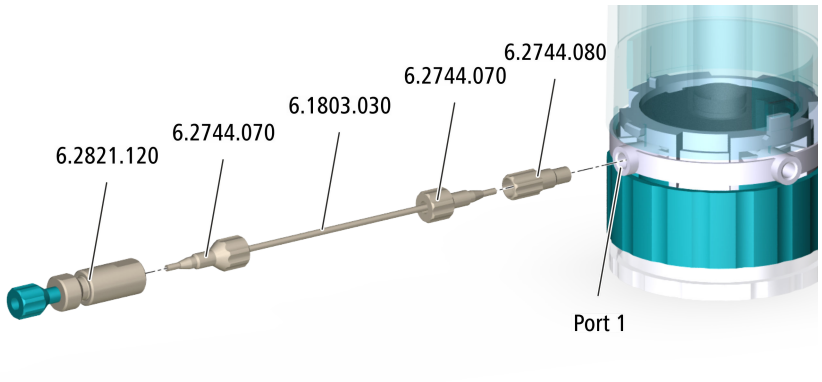


1
- Tighten one end of the FEP tubing to the M6 opening of the bottle cap.
- Tighten the other end of the FEP tubing in port 2 of the Dosino.

3.4 Connecting the Dosino to the inline filter

Required accessories

- Inline filter (6.2821.120)
- Capillary (6.1803.030)
- Pressure screws (6.2744.070)
- Coupling M6-UNF (6.2744.080)
- Capillary cutter (6.2621.080)



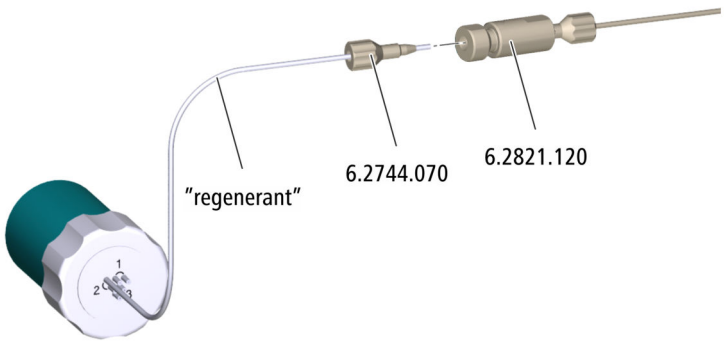
1 ▪ Tighten the coupling to Port 1 of the Dosino.

2 ▪ Cut off a piece of the capillary that is approx. 30 cm long using the capillary cutter.
The capillary must be long enough to stretch from the Dosino to the inline filter with the Dosino and the Dosino holder attached to the ion chromatograph. However, ensure that the capillary is not too long in order to avoid dead volume.

3 ▪ Unscrew the stopper from the inlet of the inline filter.
▪ Tighten one end of the capillary to the inlet of the inline filter using a pressure screw.
▪ Tighten the other end of the capillary to the coupling using a pressure screw.

3.5 Connecting the inline filter to the suppressor

Required accessories ▪ Pressure screw (6.2744.070)



1 ▪ Tighten the capillary of the suppressor labeled *regenerant* to the outlet of the inline filter using a pressure screw.

4 Operation and maintenance

4.1 Inline filter

The filter must be replaced at least every 3 months, but if you are working with high backpressure, then it will need to be replaced more frequently. Information on replacing the filter can be found in the Manual for the ion chromatograph.

4.2 807 Dosing Unit 2 mL without accessories (6.1580.120)

Maintenance work on the 807 Dosing Unit must be performed regularly. Information on the care and maintenance of the 807 Dosing Unit can be found in the Manual for the 807 Dosing Unit.

5 Displaying accessories

Up-to-date information on the scope of delivery and on optional accessories can be found on the Metrohm website.

1 Searching for a product on the website

- Go to *https://www.metrohm.com*.
- Click on 🔍.
- Enter the article number of the product (e.g. **2.1001.0010**) into the search field and press **[Enter]**.

The search result is displayed.

2 Displaying product information

- To display the products matching the search term, click on **Product models**.
- Click on the desired product.

Detailed information regarding the product is displayed.

3 Displaying accessories and downloading the accessories list

- To display the accessories, scroll down to **Accessories and more**.
  - The **scope of delivery** is displayed.
  - Click on **[Optional parts]** for the optional accessories.
- To download the accessories list, click on **[Download accessories PDF]** under **Accessories and more**.

NOTE

Metrohm recommends keeping the accessories list for reference purposes.

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