

753 Suppressor Module

8.753.1023 Supplement to 8.753.1003 Instructions for Use

This supplement contains **corrections** and **supplements** to the 8.753.1003 Instructions for Use. All page numbers quoted refer to said 753 Instructions for Use.

Regeneration of the suppressor

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The following instructions on how to regenerate the Metrohm Suppressor Module replace *section 4.2.5* of the 753 Instructions for Use:

Regenerating a suppressor operating at reduced capacity

If the suppressor units are exposed to certain heavy metals (e.g. iron) or organic contaminants for long periods of time, these can no longer be removed completely by the regeneration solution normally used (20 mmol/L H₂SO₄). This diminishes the capacity of the suppressor units, which, in milder cases, results in reduced sensitivity to phosphates and, in severe cases, in a strong increase in the baseline. If such capacity problems occur at one or more points, treat the suppressor units affected as follows:

1 Disconnect suppressor from IC system

- Disconnect suppressor from separating column and detector.

2 Regenerate suppressor

- Rinse each suppressor unit for about 15 min with one of the following solutions:

Contamination with heavy metals

1 mol/L H₂SO₄

Contamination with organic cationic complexing agents

0.1 mol/L H₂SO₄ / 0.1 mol/L oxalic acid / acetone 5%

Severe contamination with organic substances

0.2 mol/L H₂SO₄ / acetone ≥ 20%



The 6.1826.050 pump tubing is made of PVC and must not be used for rinsing with solutions containing acetone. In such cases, use a different pump tubing or a different pump for rinsing purposes.

3 Connect suppressor to IC system

- Reconnect suppressor to the IC system. If the capacity problems persist, replace the suppressor rotor (see *section 4.2.7*).

Regenerating the suppressor in case of high counterpressure

If excessive counterpressure is observed in one or more of the suppressor units, proceed as follows:

1 Disconnect suppressor from IC system

- Disconnect suppressor from separating column and detector.

2 Regenerate suppressor

- Connect the inlet capillary **25** marked "H₂SO₄" to the 709 IC Pump using a 6.2620.060 or 6.2744.040 coupling.
- Adjust the 709 IC Pump flow rate to 0.5 mL/min and rinse the suppressor unit with 1 mol/L H₂SO₄ for 5 to 10 min.
- As the pressure drops, slowly increase the 709 IC Pump flow rate to 2 mL/min. The maximum pressure must not exceed 2 MPa (20 bar).
- Switch suppressor to the next position using the <STEP> key.
- Connect the inlet capillary **28** marked "H₂O" to the 709 IC Pump using a 6.2620.060 or 6.2744.040 coupling.
- Adjust the 709 IC Pump flow rate to 0.5 mL/min and rinse the suppressor unit with distilled H₂O for 5 to 10 min.
- As the pressure drops, slowly increase the 709 IC Pump flow rate to 2 mL/min. The maximum pressure must not exceed 2 MPa (20 bar).

3 Connect suppressor to IC system

- Reconnect the suppressor to the IC system and the 753 Suppressor Module. If the pressure problems persist, replace the suppressor rotor (see *section 4.2.7*).

Supplement to «Cleaning the suppressor»

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Supplementary to the cases listed in *section 4.2.6* which may necessitate cleaning of the suppressor or replacement of connection piece **36**, please also note the following case:

- High counterpressure on the suppressor connection tubings

Changes in standard equipment

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- | | |
|----------------|---|
| 2 × 6.2744.010 | PEEK Compression fitting (instead of 1 × 6.2744.010)
Set of 5 |
| 2 × 6.2128.180 | Connecting cable (instead of 1 × 6.2128.090)
Connecting cable 762 – 752/753/754 |
| 2 × 6.2821.100 | Filter unit PEEK 2 μm (new)
To avoid contamination due to abrasive particles of piston seals |

New Options

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|------------|---|
| 6.2143.220 | Connecting cable
Connecting cable 732 IC Detector – 753 Suppressor Module –
754 Dialysis Unit |
|------------|---|