

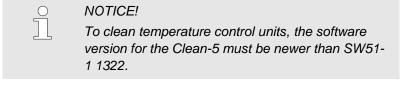
# **Directions for use O8337-EN**

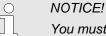
# **Cleaning unit Clean-5**

## **Purpose**

Cleaning temperature control units

### Precondition





You must be familiar with the operating instructions for the temperatur control untis to clean it using the Clean-5.

#### Personal protective equipment

Personal protective equipment must be worn for all work:



#### **Tight-fitting protective goggles**

to protect the eyes from splashing of liquids.



#### **Protective gloves**

for protection of hands from abrasions, cuts or deeper wounds, as well as to prevent direct contact with hot surfaces, acids and alkalis when handing chemicals.

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#### **Procedure**



#### WARNING! Chemical injury hazard!

Depending on the type and dilution, chemicals can cause corrosion, irritate the respiratory system and membranes and can be poisonous if swallowed.

#### Therefore:

- Only have work with chemicals done by trained personnel.
- Carefully observe general security information for handling chemicals as indicated in the Material Safety Data Sheets.
- Do not mix chemicals.

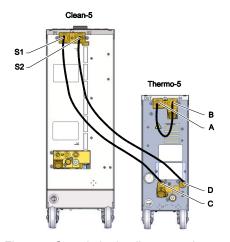


Figure 1: Sample hydraulic connection

- 1. Set up the heating unit to be cleaned. Remove any hydraulic connections already present.
- 2. For devices with **X** hydraulics for the Thermo-5 or **D** hydraulics for Series 5 (such as 100**X** or 100**D**):

Prepare hydraulic connections (→ Figure 1) as follows:

- Attach the S1 connection of the Clean-5 to the C connection of the Thermo-5 or Series 4 units.
- Attach the S2 connection of the Clean-5 to the D connection of the Thermo-5 or Series 4 units.
- Attach the A connection to the B connection of the Thermo-5 or Series 4 units.

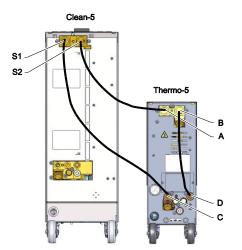


Figure 2: Sample hydraulic connection

- 3. For devices with hydraulics Z for the Thermo-5 or with U hydraulics for Series 4 units (such as 140Z or 140U) prepare hydraulic connections (→ Figure 2) as follows:
- Attach the S1 connection of the Clean-5 to the C connection of the Thermo-5 or Series 4 units.
- Attach the S2 connection of the Clean-5 to the A connection of the Thermo-5 or Series 4 units.
- Attach the B connection to the D connection of the Thermo-5 or Series 4 units.

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#### **Directions for use O8337-EN**

- **4.** Insert the plug for the Thermo-5/Series 4 and the Clean-5 and turn on the main switch.
- 5. Do a Clean-5 special setting:
- Set Interval flow inversion to "OFF" under Setting / Cleaning

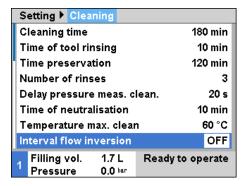


Fig. 3: Interval flow inversion

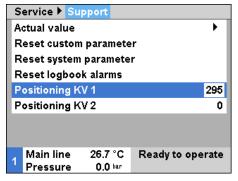


Fig. 4: Positioning KV 1



Fig. 5: Set offset step motor

- 6. Do a Thermo-5 special setting:
- Set Positioning KV 1 under Service / Support to "295" using User profile Support.

- 7. Do a Series 4 unit special setting:
- Set Offset step motor to "+360" under Setting / Service / Parameter / Controller using user profile Support.

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# **Directions for use O8337-EN**

- 8. For the Clean-5, start cleaning by pushing the w button.
- → Cleaning will start automatically. Follow the instructions on the Clean-5 screen.



#### NOTICE!

If the temperature control unit is not operated after cleaning, it is recommended that the unit be preserved using the Clean-5.

- → After cleaning, the cleaning results are shown.
- **9.** Turn off the main switch for the Thermo-5/Series 4 and the Clean-5.
- 10. Remove the hydraulic connections.

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