

AutoDest Sensor for Rotavapor® R-300 Installation Guide

This Installation Guide is part of the Rotavapor® R-300 Operation Manual, chapter 5.10 „Fitting AutoDest sensor and vapor temperature sensor“. This Installation Guide can be downloaded from the BUCHI website in English, German, French, Italian, Spanish, Chinese and Japanese.

1. Scope of delivery

Product	Article number
AutoDest sensor for Rotavapor® R-300	11059225

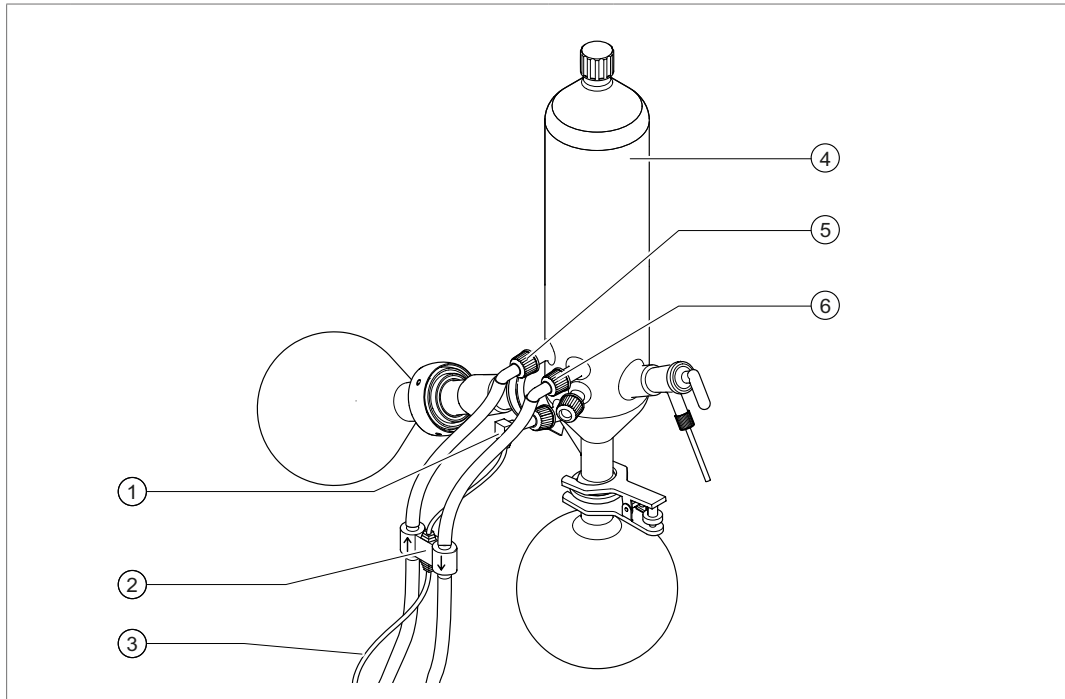
2. Description

When using an Interface I-300 / I-300 Pro there is the option of performing automatic distillation. Automatic distillation requires connection of an AutoDest sensor to the Rotavapor R-300. The AutoDest sensor is connected to the inlet and outlet of the cooling condenser and continuously measures the following temperatures:

- Temperature of the incoming coolant
- Temperature of the outgoing coolant
- Temperature of the vapor exiting the evaporating flask.

NOTE

The AutoDest sensor has to be calibrated when first used and also when connected to a new VacuBox (see Operating Instructions I-300/I-300 Pro, Section 8.5 "Calibrating AutoDest sensor").



① Vapor temperature sensor	④ Cooling condenser
② AutoDest sensor	⑤ Coolant inlet on condenser
③ Communication connection between AutoDest sensor and VacuBox	⑥ Coolant outlet on condenser



NOTE

There are two arrows stamped on the AutoDest sensor indicating the direction of flow for the coolant. The hoses for the coolant must be connected according to the direction of flow as the AutoDest sensor measures the difference between the incoming and outgoing coolant temperature and communicates the readings to the VacuBox and interface unit for the purposes of automatic control.

- ▶ Connect two tubes between the AutoDest sensor ② and the cooling condenser ④. When doing so pay attention to the direction of flow of the coolant. The arrows on the AutoDest sensor indicate the direction of flow.

NOTE

The distance between the AutoDest sensor and the cooling condenser should not be more than 10 to 20 cm so as not to falsify the readings for the incoming and outgoing coolant temperatures in the distillation system.

- ▶ Connect a tube between the coolant inlet ⑤ on the AutoDest sensor and the outlet of the recirculating chiller.
- ▶ Connect a tube between the coolant outlet ⑥ on the AutoDest sensor and either the inlet of the recirculating chiller or another cooling condenser.
- ▶ Insert a vapor temperature sensor ① in the Rotavapor R-300 and fix it in place.
- ▶ Connect the outgoing cable from the AutoDest sensor to the VacuBox. Use the connection marked "VT/AS" for this lead.

NOTE

There should be no air bubbles in the coolant as otherwise correct functioning of the AutoDest sensor is not guaranteed.

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