1 Intended application

Heating baths without their own refrigerating unit can be operated in combination with the Cooling Liquid Valve LCZ 9662 at lower bath temperatures. The valve controls the flow of an external source of cooling liquid, e.g. tap water. Operation is possible when the closed-loop control unit for the heating bath has the LAUDA internal device bus (LiBus) and the bath is equipped with a cooling coil. The LAUDA Proline is adapted in this respect. The valve is designed for cooling-liquid operation down to -10°C. For safety reasons the valve only opens with bath temperatures lower than +155°C. Instead of the 11mm olives supplied as standard with the bath, 13 mm olives (with M14x1.4 nuts) are available as accessory HKA 110 for ½ inch hoses.

2 Installation (using Proline P8 as an example)

– Interrogate the software version of the thermostat (⇨ thermostat operating instructions) and compare with the requirements (page 2, below). Request an update, if necessary.

– Switch the mains switch to OFF.

Connecting the drain:

– Screw the 11 mm hose olive with union nut (M14x1.5) from the thermostat accessories onto the cooling coil drain nipple. Use an AF 17 open-ended wrench for the nut and an AF 12 open-ended wrench on the cooling coil.

– Push the cooling water drain hose onto the olive and secure with a clip. Insert the other end of the hose into a suitable water drain.

Risk of flooding: Secure the return hose against unintentional release from the water drain.

Connecting the feed:

– If a hose olive was already previously fitted to the cooling coil nipple, then it must be removed.

– Screw the valve with the union-nut end (M 14x1.5) onto the cooling coil inlet nipple. Use an AF 17 open-ended wrench on the valve and counter the torque with an AF 12 open-ended wrench on the cooling coil.

– Push the feed hose onto the valve olive and connect it to the coolant feed, securing both ends with hose clips.

Connect the LAUDA device bus (LiBus):

– Plug the connecting lead into a free 70S socket on the thermostat and secure it.

3 Starting up

- Open the water tap just slightly. This saves cooling water and improves the constancy of the temperature.
- Switch the mains switch to ON. The valve now operates automatically with the factory setting.
- Select the setpoint temperature so that it is at least 5°C above the cooling water temperature.
- Observe the control: If the setpoint temperature is not reached, then open the valve further. If the control is unstable, then close the valve slightly.

4 Special functions

4.1 Manual valve operation

If applicable, first read the unit operating instructions about the unit operating structure.

Master: Modu. → VAL. 0 → Co A enter the changes mode with the Enter key (A flashes), then select 0 for CLOSED or 1 for OPEN with the arrow keys.

Command: Menu → Interfaces → Cooling Valve → set automatic to closed or open.

4.2 Displays

Master:

Modu. → VAL. 0 → Show enter the display mode with the Enter key and then page with the arrow keys:

VEr	Module software version
P x	Displays the switching status of the solenoid valve. 0 = CLOSED, 1 = OPEN
U24	Displays the 24V supply voltage
Snr_H	Serial number, high word
Snr_L	Serial number, low word
End	Quits the display level

Command:

- Module software version: Menu → Settings → Device Status → Software version → Cool V.
- Module serial number: Menu → Settings → Device Status → Serial numbers → Cool V.

4.3 Resetting the valve to the factory setting

Master: Modu. → VAL. 0 → dEF Press the Enter key for a few seconds. The cooling-liquid valve is then reset to the factory setting.

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from software version of Command: 1.37
from software version of solenoid valve: 1.34
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