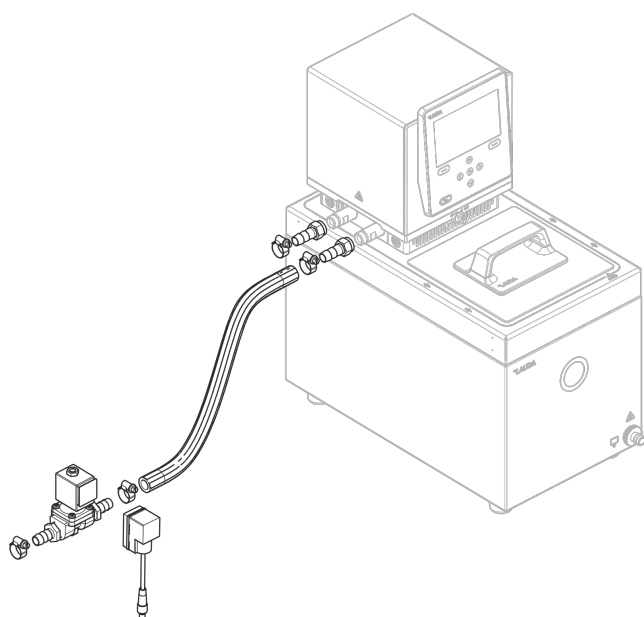


Mounting instructions

LAUDA Universa MAX and Universa PRO

Coolant valve with LiBus control



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1 Introduction

Immersion thermostats and heating thermostats without their own cooling unit can be operated at lower bath temperatures when used in combination with the coolant valve accessory set (part number A001657). The valve regulates the flow rate of an external cooling water supply, e.g. mains water. Operation is possible if the thermostat's pump and control unit is equipped with a cooling water coil and a connection socket for the LAUDA internal device bus (LiBus).

- The MAX and PRO device variants of LAUDA Universa heating thermostats are equipped with a cooling coil as standard. The Universa PRO immersion thermostat can be retrofitted with a cooling coil (part number A001740).
- The MAX pump and control unit is equipped with a LiBus socket as standard. On the PRO pump and control unit, this can be retrofitted with the external Pt100/LiBus module (part number LRZ 925).

The valve is designed for use with cooling liquids in minimum temperatures of -10°C. For safety reasons, the valve only opens if the bath temperature is less than +155°C.

This instructions explain how to install the coolant valve with LiBus control on MAX and PRO variants of LAUDA Universa bath thermostats with a built-in cooling coil, and is valid for the following accessory set. Read the manual carefully before starting work.

Part number	Description
A001657	Coolant valve with LiBus control

Intended use

This accessory set may only be operated under the conditions stated in the device's operating manual. Any other use is considered improper. It is the operator's responsibility to ensure that the devices are used properly.

Software versions

These instructions are valid for Universa thermostats and coolant valves with the following software versions or higher.

Software	Valid from version
Control system (U_R)	1.00
Protection system (U_S)	1.02
Coolant valve	3.14

Accompanying documents

- Operation manual for Universa MAX and Universa PRO (Document number Q4DT-E_13-020)



The instructions, warnings and safety information in the operation manual must be followed when carrying out all work on the device that is required for the installation of the coolant valve and depends on the condition of the device.

Warranty conditions and disclaimer

LAUDA grants a standard warranty of one year. The components have been produced in compliance with high quality and safety requirements. Personal injury and material damage that are attributable e.g. to one or more of the following causes are excluded from the warranty and liability of LAUDA DR. R. WOBSE GMBH & CO. KG:

- Failure to follow these mounting instructions.
- Incorrect installation, commissioning, maintenance and operation.
- Improperly performed repairs and transport.
- Unauthorized structural changes to the device and accessories.
- Any damage caused by continued use in spite of an obvious defect.
- Failure to use original spare parts and original accessories.
- Improper use of the device and accessories.

Personnel qualification

Specialized personnel

Certain activities on the device must be performed by specialized personnel. Specialized personnel are people whose professional education, knowledge, and experience as well as knowledge of relevant standards qualify them to assess the function and risks associated with the device and its use.

Protective equipment



Protective gloves

Protective gloves must be worn for certain tasks. The protective gloves must comply with standard DIN EN ISO 374-1. The protective gloves must be chemically resistant.



Protective work clothing

Protective clothing must be worn for certain tasks. This protective clothing must meet the legal requirements for personal protective equipment. Protective clothing with long sleeves must be worn. Additionally safety shoes are required.



Safety glasses

Safety glasses must be worn for certain tasks. The safety glasses must comply with the standard DIN EN 166. The glasses must be tightly closed and equipped with side plates.

Structure of the warnings

Warning signs	Type of danger
	Warning – hot surface.
	Warning – danger zone.

Signal word	Meaning
WARNING!	This combination of symbol and signal word indicates a potentially dangerous situation that can result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a potentially dangerous situation that can result in material and environmental damage if it is not avoided.

 NOTICE! Origin of the hazard	
	Possible consequences of the hazard
	● Measure 1 ● Measure...

2 Safety information



WARNING!
Contact with live parts

Electric shock

- Disconnect the device from the power supply before performing any mounting work.



WARNING!
Danger of the device rolling away or overturning

Impact, crushing

- Do not tilt the device!
- Position the device on an even, non-slip surface with a sufficient load carrying capacity!
- Actuate the caster brake when setting up the device!
- Do not place heavy parts on the device!



CAUTION!
Contact with hot / cold device parts, accessories and heat transfer liquid

Scalding, hot or cold burns

- Allow device parts, accessories and heat transfer liquid to reach room temperature before touching.



CAUTION!
Operating the cooling coil in a central cooling water system; heating steam/outflow of boiling cooling water

Scalding

- When operating on a central cooling water system, the cooling coil can be used up to a bath temperature of 95 °C.



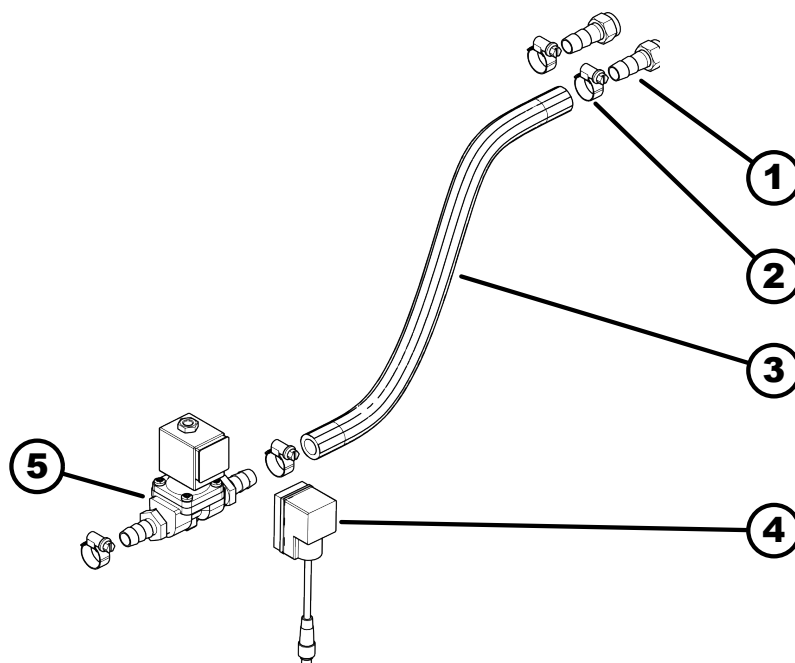
CAUTION!
Operation of the cooling coil with drinking water; hot bursts of steam/hot water vapor at bath temperatures above 95 °C

Scalding

- Secure the open end of the cooling coil hose at the outlet.
- When operating with drinking water, the cooling coil can be used up to a bath temperature of 155 °C.

 NOTICE! Water damage caused by use of the cooling coil	
	Damage to the facility
	● To avoid water damage caused by leaks from the cooling water system, use a leakage water detector with water shut-off function.

3 Scope of delivery



No.	Quantity	Description
1	2	Hose nipple 13 mm with union nut M16 × 1
2	4	Stainless steel hose clamp
3	1	Rubber hose 1/2" (1 m) (for the connection between the solenoid valve and the hose nipple on the cooling coil intake)
4	1	Solenoid valve connector with control board and control cable (1.5 m)
5	1	Solenoid valve (Valve body with screw-in hose nipples and coil fitted)

4 Preparations

Personnel:	■ Specialized personnel
Protective equipment:	■ Protective work clothing
	■ Safety glasses
	■ Protective gloves
Tool:	■ Open-end wrench 14 mm
	■ Open-end wrench 17 mm
	■ Socket wrench screwdriver 7 mm

Mounting instructions

- Make sure that the device has been disconnected from the mains and secured against restarting.
- Check the scope of delivery of the accessory set for completeness and any possible damage.
- No additional sealing material is required for the screw connections. The screw connections are tight, provided that the contact surfaces are clean and undamaged and installation has been carried out correctly.
- Tighten the screw connections until they are secure and cannot be easily loosened by hand. However, avoid continuing to turn with excessive force as soon as you feel significant resistance. The goal is to achieve tight, but not overtightened, screw connections.
- The solenoid valve must be fitted in the correct direction of flow. Observe the information  “Observing the direction of flow” on page 12 in the following mounting instructions.
- Ensure that the solenoid valve is not subjected to mechanical stress or torsion.
- During installation, make sure that no foreign bodies (dirt, metal chips, etc.) can enter the solenoid valve, hoses and other attachments.
- Place the solenoid valve in the vertical position with the coil facing upward. Due to its own weight, it should rest on the table next to the thermostat.
- Depending on the quality of the external cooling water supply, it may be advisable to install a filter in front of the solenoid valve to prevent dirt or other deposits present in the cooling water from impairing its operation.
- Only connect the control cable when the coil is fitted on the valve body. Never apply power to the coil without it being fitted on the valve body to prevent the coil from burning out.

5 Installing the coolant valve

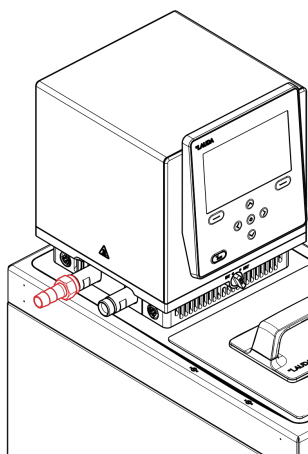
1. Compare the software versions of the thermostats with the requirements, see  “Software versions” on page 4.

You can view the software versions in the device menu:

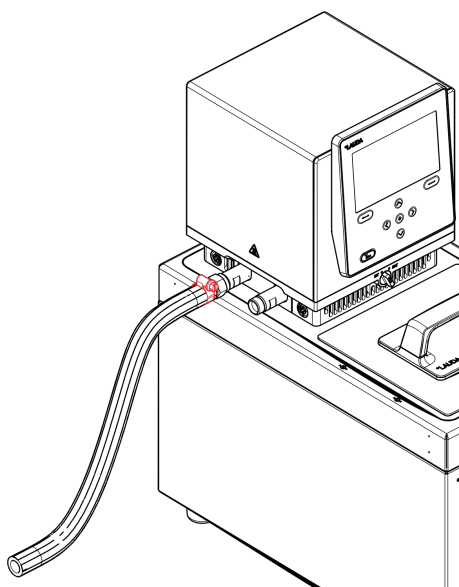
Device status → *Versions* → *SW version*

If necessary, request an update from LAUDA Service.

2. Turn off the thermostat and pull out the mains plug.
3. If necessary, remove any screw caps on the cooling coil nozzles.
4. Check that all parts and connection threads are clean and undamaged.
5. Screw a 13-mm hose nipple with union nut onto the cooling coil outlet. Screw on the union nut by hand until the sealing surfaces between the cooling coil nozzle and the cone of the hose nipple come together. Tighten the union nut using a 17-mm open-end wrench, holding the cooling coil nozzle in place with a 14-mm open-end wrench.

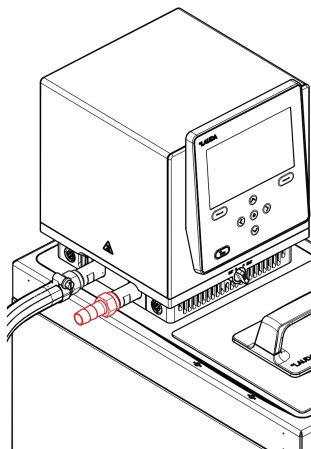


6. For the cooling water outlet, push a suitable rubber hose (not included in the scope of delivery) onto the nipple and secure it with a hose clamp. Route the other end of the hose into a suitable water drain.

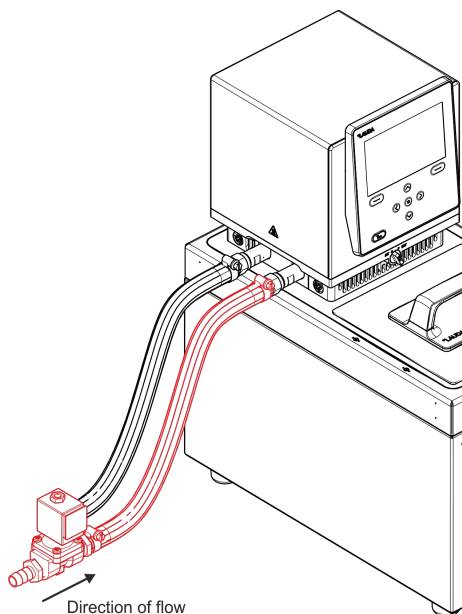


Risk of flooding

Prevent the cooling water outlet hose from accidentally becoming detached from the water drain.



7. Screw a 13-mm hose nipple with union nut onto the cooling coil intake.

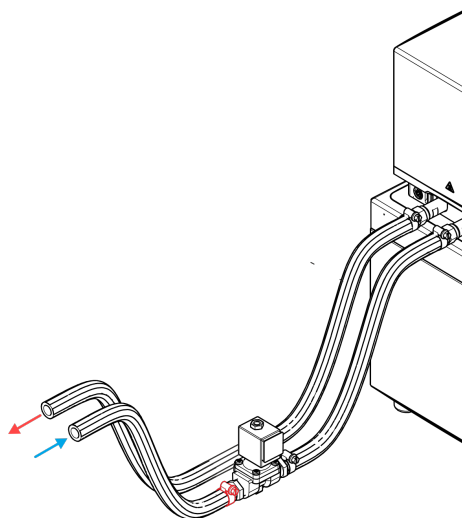


8. Push the rubber hose from the accessory set onto the nipple and secure with a hose clamp. Push the other end of the hose onto the hose nipple of the solenoid valve and secure it with a hose clamp.



Observing the direction of flow

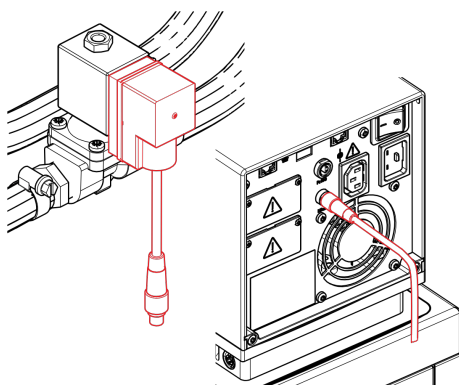
Observe the direction of flow! The arrow on the valve body must be pointing in the direction of the cooling water intake.



9. For the cooling water intake, push a suitable rubber hose (not included in the scope of delivery) onto the other hose nipple of the solenoid valve and secure it with a hose clamp. Connect the other end of the hose to your external cooling water supply.

► The hydraulic assembly is complete.

Electrical connection



10. Attach the solenoid valve connector of the control cable to the solenoid valve coil and secure it with the screw.

Connect the control cable to the LiBus socket at the back of the pump and control unit, and secure the connector with the screw plug.

6 Commissioning

- Only slightly open the tap or valve on the cooling water intake. This saves cooling water while improving temperature stability.
- Switch the thermostat on at the mains switch. The valve now works automatically with the factory settings.
- Select the set temperature so that it is at least 5°C above the cooling water temperature.
- Monitor the temperature controller.
 - If the set temperature is not achieved:
⇒ Increase the cooling water intake and check the cooling water temperature if necessary.
 - If the temperature controller is instable:
⇒ Reduce the cooling water intake.

7 Menu options

When the coolant valve is connected, additional menu items are available.

7.1 Manually setting the valve's operating mode

You can select the following settings under the menu item *Accessories* → *Cooling valve*:

closed	When the [closed] setting is selected, the valve always remains closed, even when the device is in operation and the set point is lower than the actual value.
open	When the [open] setting is selected, the valve opens as soon as the device starts operating, even if the set point is higher than the actual value. In standby mode, the valve is closed.
automatic (Factory settings)	When the [automatic] setting is selected, the valve is automatically opened or closed by the device according to the cooling requirement. The closer the actual value is to the set point, the more frequently the valve is modulated. In standby mode, the valve is closed.

7.2 Displaying the software version and serial number

You can view the software version and serial number of the cooling valve under the following menu items:

- Software version:
Device status → *Versions* → *SW version* → *Cool V*
- Serial number:
Device status → *Device information* → *Serial numbers* → *Cool V*

7.3 Restoring the factory settings

If you wish to restore the cooling valve's factory settings, proceed as follows:

1. Select the menu items
Setup → *Factory setting* → *Cool V*
2. Select [yes] and press the Enter key to confirm.
 - The cooling valve's factory settings have been restored.

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