1 Intended application

Baths with a large open bath surface lose bath liquid at higher temperatures due to evaporation. The Automatic Filling Device LCZ 9661 compensates this loss. When using water as the bath liquid, the unit can be connected to a water supply via the automatic filling device. In addition, units with a delivery/suction pump can draw the bath liquid from a storage container (e.g. canister) via the automatic filling device.

The automatic filling device can be connected to units which are equipped with the LAUDA internal device bus (LiBus) and which have a multi-step level measurement. The LAUDA Proline is adapted for this. The valve is designed for operation down to -10 °C.

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 feed:

– Remove the blind plugs on one of the two return (suction side) pump connections (in the illustration: at the side).

– Screw the valve with the union-nut end (M16x1) onto this pump connection. Use an AF 19 open-ended wrench on the valve and an AF17 open-ended wrench on the pump connection to counter the torque.

Risk of flooding: Never connect the valve to the pressure end.

– Push the inlet hose onto the valve olive and secure with a hose clip.

– Connect the other end of the hose to the water supply or to a storage container and also secure it.

– If the device is to draw bath liquid from a storage container, the distributor (Internal/External) must be set to "External" or to an intermediate setting.

Connect the LAUDA device bus (LiBus):

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

3 Starting up

- For the connection of a water supply: Open the water tap just slightly.
- Switch the mains switch to ON.
- The valve now operates automatically with the following factory settings:

Type of unit	Displayed level steps	Lower threshold opens at level	Upper threshold closes at level
Proline with 200mm bath depth	8 steps	Step 6	Step 7
Proline with 320mm bath depth (e.g. P12, PBD)	19 steps	Step 17	Step 18

If the upper cut-off point is not reached within 3 minutes, the valve closes automatically and an alarm signal is output.
This prevents flooding if a fault occurs or with a low level due to blockage of the feed line. After the alarm signal has been acknowledged, the valve checks whether the lower threshold is undercut and opens again as required.

4 Special functions

4.1 Changing the lower and upper thresholds

The valve opens at the lower threshold and then closes again at the upper threshold.

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

Master:

Lower threshold: Modu. → UAL. .1 → Ln 6 enter the changes mode with the Enter key (e.g. 6 flashes), then select the desired bath level value with the arrow keys.

Upper threshold: Modu. → UAL. .1 → Hn 7 enter the changes mode with the Enter key (e.g. 7 flashes), then select the desired bath level value with the arrow keys. The lower threshold cannot be set greater than or equal to the upper threshold.

Command: Select Menu → Interfaces → Refill Valve → Lower Step: 6 and make changes in the following window. Proceed similarly for the upper threshold.

4.2 Displays

Master:

Modu → *VAL. .1* → *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 → Valve 1
- Module serial number: Menu → Settings → Device Status → Serial numbers → Valve 1

4.3 Resetting the valve to the factory setting

Master: *Modu* → *VAL. .1* → *dEF* Press the Enter key for a few seconds. The automatic filling device is then reset to the factory setting.

Valid from series: LCZ 9661-04-0001
from software version of Master: 1.33
from software version of Command: 1.37
from software version of solenoid valve: 1.34
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