LAUDA Calibration thermostats

Calibration and adjustment with LAUDA calibration thermostats at temperatures from -40 up to 300 °C











Application examples

- Industrial production
- Testing institutes
- Calibration of thermometers
- Quality assurance in the production of temperature probes

High temperature stability, variable sample vessels, extensive range of devices and accessories

LAUDA calibration thermostats are the first choice when it comes to temperature stability, greatest reliability, and homogeneity during calibration and adjustment. The high performance complete solutions for individual requirements are available in the Ecoline Staredition

and Proline models. They differ in terms of size, bath-opening, and usable depth. Thermostats, in particular, are superior to heating cabinets and metal block thermostats as the heat transfer into the heat transfer liquid is 40 to 60 times better than through the air.

Your advantages at a glance

+	The Calibration thermostats advantages	Your benefits
	 Calibration thermostats available from two different product lines 	 The ideal solution for any calibration task
	 Specifically constructed internal calibration chamber based on the overflow principle Specially insulated low-temperature thermostats available 	 Outstanding spatial temperature distribution and high temperature stability Consistent immersion depths Operation at low temperatures without formation of condensation on the out- side of the devices Operate reliably even at high ambient temperatures
60.02- 60.00 52.38- 15:08:42 Pump Menu Screen	• Temperature stability of ±0.005 K	 Allows reliable and accurate calibration of temperature measuring instruments
	 Temperatures down to -40 °C achiev- able in conjunction with LAUDA cooling units 	 Optimized adaptation to the application can be achieved by selection of the appropriate cooling unit

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Calibration thermostats Ecoline Staredition and Proline

The calibration thermostats of the LAUDA Ecoline Staredition range offer you temperature stabilities to ± 0.01 K at temperatures down to -30 °C. The RE 212 J model with its two-line display, digital interface and basic programmer is convincing. The even more user-friendly RE 312 J offers the possibility of external control for even better accuracy and the PC software LAUDA Wintherm Plus. In the heating range, the compact Proline PJ 12/PJ 12 C models reach maximum temperatures up to 300 °C. The PJL 12/PJL 12 C were designed especially for operation with the LAUDA DLK 45 through-flow cooler and reach temperatures down to -40 °C.





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Ecoline Staredition RE 312 J

All technical data on page 84 and following Other power supply variants on page 95



Temperature range -40...300 °C

Included accessories Nipples · screw caps · pump link (only RE 212 J and RE 312 J) · bath cover (PJ/PJL)

Additional accessories Bath cover (RE 212 J, RE 312 J) · calibration racks

Technical features		RE 212 J	RE 312 J	
Working temperature range*	°C	-30200	-30200	
Temperature stability	±Κ	0.01	0.01	
Resolution of indication	°C	0.05	0.05/0.01	
Heater power	kW	2.25	2.25	
Cooling output at 20 °C	kW	0.30	0.30	
Pump pressure max.	bar	0.40	0.40	
Pump flow (pressure) max.	L/min	17	17	
Bath volume	L	912	912	
Bath opening/usable depth	mm	Ø 150/180	Ø 150/180	
Cat. No. 230 V; 50 Hz		LCK 1879	LCK 1880	

Technical features		PJ 12	PJ 12 C	PJL 12	PJL 12 C
Working temperature range	°C	30300	30300	30200	30200
Operating temperature range	°C	0300	0300	-40**200	-40**200
Temperature stability	±Κ	0.01	0.01	0.01	0.01
Resolution of indication	°C	0.1	0.1/0.01/0.001	0.1	0.1/0.01/0.001
Heater power	kW	3.5	3.5	3.5	3.5
Pump pressure max.	bar	0.8	0.8	0.8	0.8
Pump flow (pressure) max.	L/min	25	25	25	25
Bath volume	L	8.513.5	8.513.5	8.513.5	8.513.5
Bath opening/depth	mm	Ø 120/320	Ø 120/320	Ø 120/320	Ø 120/320
Usable depth	mm	300	300	300	300
Cat. No. 230 V; 50/60 Hz		LCB 0720	LCB 0721	LCB 0718	LCB 0719

* Working temperature range is equal to the ACC range. **At -40 °C in conjunction