

LAUDA Alpha

Heating and cooling thermostats for cost-effective thermostating in the laboratory at temperatures from -25 up to 85 °C



Application examples

- Sample preparation for chemico-pharmaceutical analysis
- Quality control
- Precise temperature control in sensitive areas such as medical serology
- Versatile thermostating tasks in the field of biotechnology

Reliable technology, modern design, favorable price

LAUDA Alpha is the cost-effective choice in the area of high-quality LAUDA thermostats. The temperature range from -25 to 85 °C covers the larger part of all basic thermostatic applications within the laboratory. This is exactly the working temperature range of the new LAUDA Alpha. This well-priced equipment range is made pos-

sible by minimizing any unnecessary features, with the focus on reliability and user-friendliness. The thermostats are suitable for operation with non-flammable liquids (water, water/glycol) and for both internal and external thermostating tasks. A 1-point-calibration of the thermostats can be carried out by the user.

Your advantages at a glance



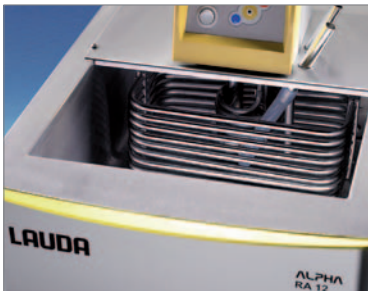
The Alpha advantages

Your benefits



- 3-button operation with large, clearly legible LED display

- Easy and intuitive menu navigation
- Easily legible display values



- Automatic compressor control supplies strong cooling output only when needed – up to 425 W

- Cost-effective operation
- No unnecessary energy consumption
- Equipment-saving principle extends the life of the compressor



- Alpha immersion and heating thermostats with screw clamp

- Easy to change to different bath vessels with a wall thickness of up to 25 mm



- Variable flow rates via inserts and fittings

- The rate of circulation can be adapted to the size of the bath



- Removal of the front cover without tools

- Easy cleaning of the cool air inlet
- Extended maintenance intervals

LAUDA Alpha

Alpha Immersion thermostat

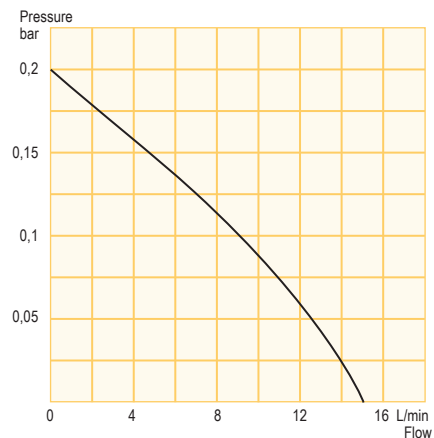
The immersion thermostat A can be used for any bath with a wall thickness of up to 25 mm by means of the screw clamp included in the scope of delivery. Using the optional pump circulation set and a cooling coil, the immersion thermostat can be expanded to form a full-fledged thermostating system.



Immersion thermostat A



Pump characteristic Heat transfer liquid: Water



Temperature range

25...85 °C

Standard accessories

Screw clamp · pump reduction in 2 sizes

Recommended accessories see p. 19

Pump circulation set · cooling coil



All technical data from page 88
Other power supply variants on page 98



Technical features		A
Working temperature range	°C	25...85
Temperature stability	±K	0.05
Heater power	kW	1.15
Pump pressure max.	bar	0.2
Pump flow max.*	L/min	15
Cat. No. 115 V; 60 Hz		LCEX 4226

* Reducible to 5 L/min

Alpha Heating thermostats

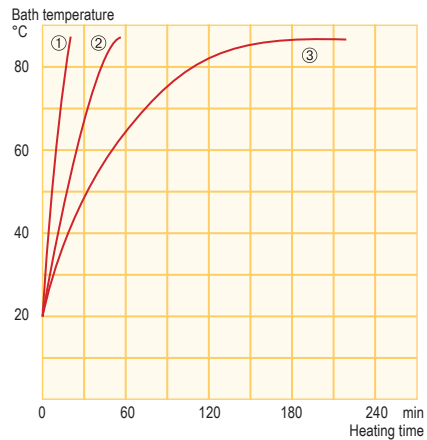
The heating thermostats A 6, A 12 and A 24 operate in the temperature range between 25 and 85 °C. As in the case of the immersion thermostats, a cooling coil and pump circulation set as well as a bath cover set are available as optional accessories.



Heating thermostat A 12 with accessory cooling coil



Heating curves Heat transfer liquid: Water



- ① A 6
- ② A 12
- ③ A 24

Temperature range
25...85 °C

Standard accessories
Screw clamp · pump reduction in 2 sizes

Recommended accessories see p. 19
Pump circulation set · cooling coil · bath cover set



All technical data from page 88
Other power supply variants on page 98



Technical features		A 6	A 12	A 24
Working temperature range	°C	25...85	25...85	25...85
Temperature stability	±K	0.05	0.05	0.05
Heater power	kW	1.15	1.15	1.15
Pump pressure max.	bar	0.2	0.2	0.2
Pump flow max.	L/min	15	15	15
Bath volume	L	2.5...5.5	8...12	18...25
Bath opening	mm	145x161	235x161	295x374
Bath depth	mm	150	200	200
Cat. No.		LCBX 4733	LCBX 4734	LCBX 4735

LAUDA Alpha

Alpha Cooling thermostats

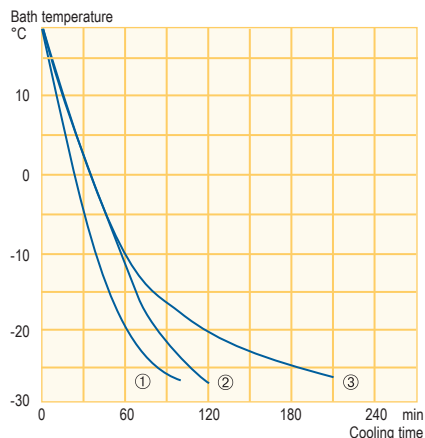
The cooling technology of the cooling thermostats RA 8, RA 12 and RA 24 enables cooling performance through the entire temperature range of -25 up to 85 °C. A drain connection on the rear side of the devices makes emptying the heat transfer liquid a simple job. Bath covers and pump kits are included in the standard equipment.



Cooling thermostat RA 24



Cooling curves Heat transfer liquid: Ethanol



- ① RA 8
- ② RA 12
- ③ RA 24

Temperature range

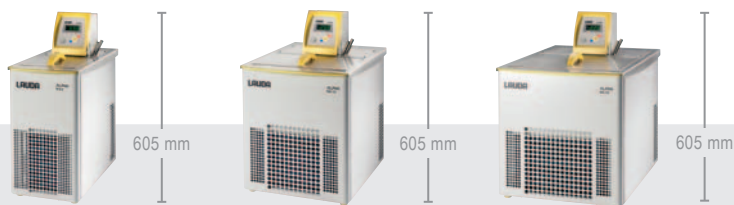
-25...85 °C

Standard accessories

Pump circulation set · bath cover · pump link for pump connections

Recommended accessories

Racks · tubings



All technical data from page 92
Other power supply variants on page 99

Technical features		RA 8	RA 12	RA 24
Working temperature range*	°C	-25...85	-25...85	-25...85
Temperature stability	±K	0.05	0.05	0.05
Heater power	kW	1.15	1.15	1.15
Cooling output at 20 °C	kW	0.225	0.325	0.425
Pump pressure max.	bar	0.2	0.2	0.2
Pump flow max.	L/min	15	15	15
Bath volume	L	5...7.5	9.5...14.5	14...22
Bath opening	mm	165x190	300x190	350x290
Bath depth	mm	160	160	160
Cat. No.		LCKX 4907	LCKX 4908	LCKX 4909

* Working temperature range is equal to ACC range

Alpha accessories

Pump circulation set

For thermostating of external applications

Cat.-No.:	Description
LCZE 005	Pump circulation set
For all Alpha immersion and heating thermostats	

Cooling coil

For additional cooling of heating baths by means of cold water

Cat.-No.:	Description
LCZE 004	Cooling coil
For all Alpha immersion and heating thermostats	

Test tube racks

Polypropylene up to 95 °C*

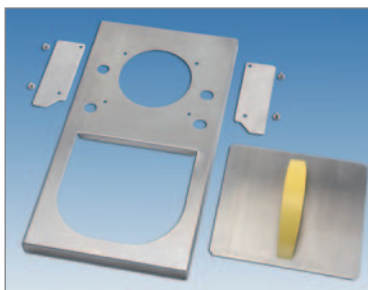
Cat.-No.:	Description	Qty. Tubes	Ø mm
UE 047/UE 041	rack yellow/white	21	30
UE 046/UE 040	rack yellow/white	24	25
UE 045/UE 039	rack yellow/white	40	20
UE 048/UE 042	rack yellow/white	60	16
UE 043/UE 037	rack yellow/white	90	13
suitable for	3 x A 24 2 x RA 12 3 x RA 24		

* Test tube rack stainless steel up to 150 °C available on request

Bath cover sets

For assembly on LAUDA Alpha heating baths.
Consisting of bath bridge, bath cover, 2 blanking plates and 4 screws

Cat.-No.:	Designation
LCZE 006	Bath cover set A 6
LCZE 007	Bath cover set A 12
LCZE 008	Bath cover set A 24



Order the detailed LAUDA accessories brochure and the heat transfer liquids brochure free of charge. This and additional product information can also be found at www.lauda.de