

The right temperature worldwide

LAUDA



Chapter Alpha

LAUDA – the big one

Thermostats, Circulation chillers, Water baths

Overall Brochure 2016/2017

LAUDA Alpha

Heating and cooling thermostats for cost-effective thermostating in the laboratory at temperatures from -25 up to 100 °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 100 °C covers the larger part of all basic thermostatic applications within the laboratory. This is exactly the working temperature range of the LAUDA Alpha. This well-priced equipment range is made possible

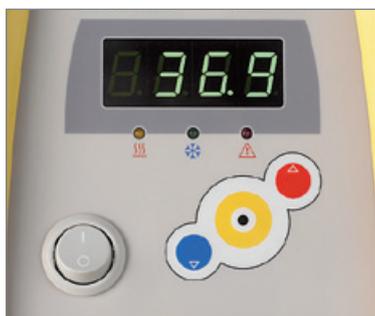
by minimizing any unnecessary features, with the focus on reliability and user-friendliness. The thermostats are suitable for operation with non-flammable liquids (water, water/glycol) and for both internal and external thermostating tasks. A 1-point-calibration of the thermostats can be carried out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

Your advantages at a glance

+

The Alpha advantages

Your benefits



- 3-button operation with large, clearly legible LED display
- Low level protection with acoustic and visual alarm
- Timer function integrated

- Easy and intuitive menu navigation
- Easily legible display values
- Automatic shut-off of heater and pump when level of heat transfer liquid is too low
- Automatic shut-down (stand-by) after preset time



- 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 30 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

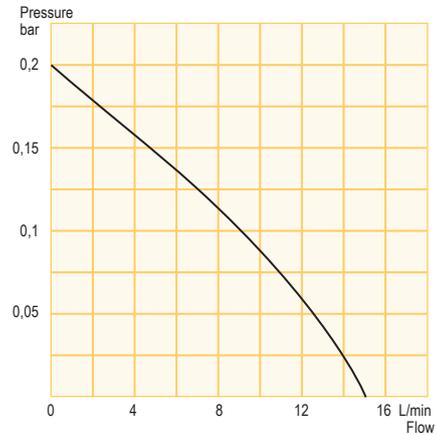
The immersion thermostat A can be used for any bath with a wall thickness of up to 30 mm by means of the screw clamp included in the scope of delivery. Using the additional pump circulation set and a cooling coil, the immersion thermostat can be expanded to form a full-fledged thermostating system.



Immersion thermostat A



Pump characteristic Heat transfer liquid: Water



Temperature range
25...100 °C

Included accessories
Screw clamp · fitting in 2 sizes

Additional accessories see p. 21
Pump circulation set · cooling coil



All technical data on page 96 and following
Other power supply variants on page 110



Technical features		A
Working temperature range	°C	25...100
Temperature stability	±K	0.05
Heater power	kW	1.5
Pump pressure max.	bar	0.2
Pump flow max.*	L/min	15
Cat. No. 230 V; 50/60 Hz		LCE 0226

* Reducible to 5 L/min

Alpha Heating thermostats

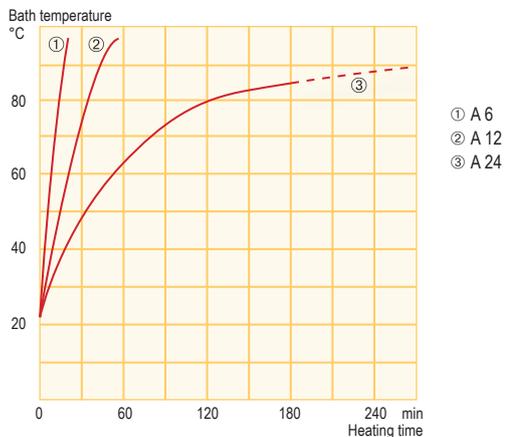
The heating thermostats A 6, A 12 and A 24 operate in the temperature range between 25 and 100 °C. As in the case of the immersion thermostats, a cooling coil and pump circulation set as well as a bath cover set are available as optional accessories.



Heating thermostat A 12 with cooling coil (accessory)



Heating curves Heat transfer liquid: Water, bath closed



Temperature range
25...100 °C

Included accessories
Screw clamp · fitting in 2 sizes

Additional accessories see p. 21
Pump circulation set · cooling coil · bath cover set



All technical data on page 96 and following
Other power supply variants on page 110

Technical features		A 6	A 12	A 24
Working temperature range	°C	25*...100	25*...100	25*...100
Temperature stability	±K	0.05	0.05	0.05
Heater power	kW	1.5	1.5	1.5
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. 230 V; 50/60 Hz		LCB 0733	LCB 0734	LCB 0735

* With open bath

LAUDA Alpha

Alpha Cooling thermostats

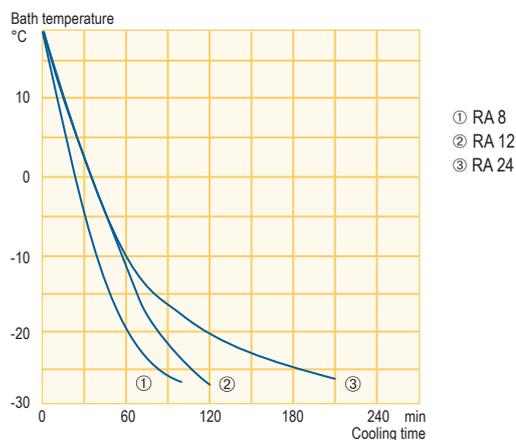
The cooling technology of the cooling thermostats RA 8, RA 12 and RA 24 enables cooling performance through the entire temperature range of -25 up to 100 °C. Emptying the heat transfer liquid is done by a drain connection on the rear side of the devices. Bath covers and pump kits are included in the standard equipment.



Cooling thermostat RA 24



Cooling curves Heat transfer liquid: Ethanol, bath closed



Temperature range
-25...100 °C

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

Additional accessories
Racks · tubings



All technical data on page 100 and following
Other power supply variants on page 112

Technical features		RA 8	RA 12	RA 24
Working temperature range*	°C	-25...100	-25...100	-25...100
Temperature stability	±K	0.05	0.05	0.05
Heater power	kW	1.5	1.5	1.5
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	165x177	300x203	350x277
Bath depth	mm	160	160	160
Cat. No. 230 V; 50 Hz		LCK 1907	LCK 1908	LCK 1909

* Working temperature range is equal to ACC range

Alpha accessories (excerpt)

Pump circulation set

For thermostating of external applications

Cat. No.	Description
LCZE 005	With 13 mm nipples
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	With 12 mm nipples
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, see page 13

Bath cover sets

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

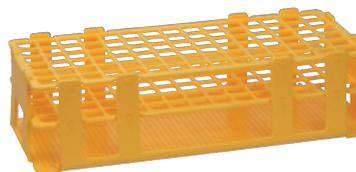
Cat. No.	Description
LCZE 006	Bath cover set A 6
LCZE 007	Bath cover set A 12
LCZE 008	Bath cover set A 24



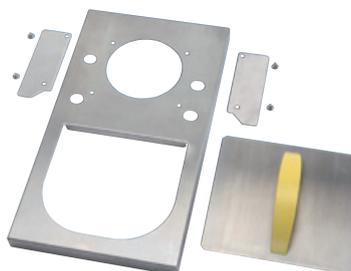
LCZE 005



LCZE 004



UE 043



LCZE 006



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

Temperature solutions:

Thermostats · Circulation chillers · Water baths

Process cooling systems · Heat transfer systems · Secondary circuit systems



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