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“Increasingly more tests in a shorter time, and always with lower costs: good, that the LAUDA Ecoline is there to make this possible.“

Applications

The thermostats of the LAUDA Ecoline series are the economic standards for laboratories. They combine leading edge technology with maximum possible economy of operation. Due to the variable LAUDA Ecoline product range, LAUDA Ecoline devices can be utilised in various ways. They can be used both for simple and for very demanding tasks. They all have in common simple digital 3-key operation, support from an LCD display, a large number of high-quality safety functions, and economy of operation. Read here for which applications the LAUDA Ecoline range is suitable.

In all cases where constancy of temperature is required

LAUDA Ecoline heating and cooling thermostats are excellent for precise thermostatic control of measuring equipment. For example, density measuring equipment, refractometers and calorimeters. Or for the thermostating of measuring systems within the bath, for example, in the case of capillary viscometry.



Automatic test bench to check pH electrodes

Thermostating in quality control

LAUDA Ecoline units are often used in thermostating applications within quality control. Not only for food and beverages, but also in production of electronic components such as oscillating quartzes.



Cooling of test water down to 5 °C

Special procedures require special thermostating

For that reason the thermostats of the LAUDA Ecoline are used for separation processes such as electrophoresis and HPLC, for the thermostating bio-reactors within a bath or a closed external circuit, e.g., with a double jacket reactor or for thermostating drop-ball and rotating viscometers.



Thermostating of measuring cells for free lime determination of flying ashes

All about calibration

Ecoline heating and cooling thermostats can be used for calibration and adjustment, e.g., in the production of PTC and NTC temperature sensors or for the thermostating of physical reference samples for calibration and reference processes.



Unit to determine film condensation

Convenient preparation of samples

LAUDA Ecoline thermostats allow convenient preparation of samples with high temperature stability – even below ambient temperature.

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Heating and cooling thermostats
for cost-effective thermostating in laboratories from -35 to 200 °C

Economy is the basis for all LAUDA Ecoline devices. They are called LAUDA Ecoline because they have leading-edge technology that operates economically and also ecologically in every respect. This saves money, reduces operating costs and provides for a maximum flexibility of use. First of all, you save time with the simple 3-key operation and the LCD display. Secondly, you save energy due to the built-in Vario pump technology with 5 selectable capacity levels. Best of all: You get your LAUDA Ecoline high-tech equipment at a surprisingly low price.

Now you can save unnecessary operations and wasted energy in the laboratory. Thanks to digital operation and the Vario pump.





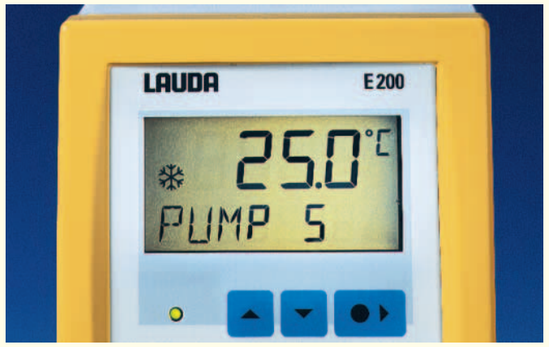




Economic operation
LCD display and extremely simple 3-key operation give a quick overview and allow rapid programming. Incorrect inputs are minimised, input times are reduced, and operating states are shown on the display.

Flexible thermostating: the LAUDA Vario pump
All LAUDA Ecoline devices have a 5-level Vario pump with adjustable pump housing and high reserve capacity. With it you can get as much capacity as possible and only use as much energy as necessary. This provides greater flexibility of use, an economical energy consumption and powerful thermostating. Level 1 is sufficient for circulation in a small bath, level 3 is for a medium-sized bath, and level 5 is just right for a large bath or for external thermostating. Setting is done via the keyboard.

More safety, more performance
The LAUDA Vario pump has an extremely high operating efficiency, and because of this, avoids any unnecessary additional energy input into the bath. Furthermore, it also makes the entire thermostat highly efficient. In addition, there are also integrated safety functions. The intelligent processor electronics monitors all operating parameters – with no less than two independent micro-controllers. Through this, the Vario pump offers unique low level protection via the pump.



Work more simply from ambient temperature
Without additional cooling being necessary, you can often work at ambient temperature at level 1 thanks to the hydro-dynamically optimised Vario pump.



Simple to switch over from internal to external
Of course the innovative and economic temperature control technology of the LAUDA Ecoline includes a continuously variable individual flow split. Depending on the application, you can split the flow between internal bath circulation and an external circuit.



ecoline

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Heating and cooling thermostats
for cost-effective thermostating in laboratories from -35 to 200 °C

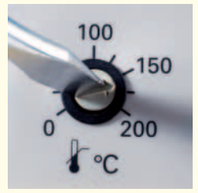
The devices from the LAUDA Ecoline range offer you alongside the basic functions in addition to automatic functions many innovations that make thermostating safer and more convenient. You do not have to keep an eye on your thermostats any longer and can thus look after other things. Meanwhile highly refined safety technology ensures that nothing can burn. Faults are displayed as plain text and thus can be easily corrected. You can calibrate the devices and thus ensure consistent results when working with several units of the LAUDA Ecoline range, if you want to connect them to external units or a PC. The chip-controlled leading-edge technology places no limits on ways to rationalise your work.

LAUDA Ecoline does everything to make your work easier. Even if you are not in the laboratory.



Safety technology that inspires

All the LAUDA Ecoline equipment uses protection against overtemperatures, a safety switching-off, an acoustic fault alarm and a unique form of protection against an excessively low level of liquid (DGM, patent No. 29723390.4): If the pump runs dry due to the level of bath liquid decreasing, then both the pump and heating are automatically switched off. Thanks to the automatic self-diagnosis, all the important operating states and faults are shown on the display. A safety circuit with additional Pt sensor guarantees maximum operating safety. The maximum temperature of the overtemperature protection is set with a screwdriver, and then the exact value set is automatically shown on the display. All the LAUDA Ecoline units are suitable for operation with non-flammable and flammable liquids (safety class III, FL). Stray magnetic fields are kept to a minimum to ensure that adjacent devices or monitors are not affected.







Simple to calibrate

It is possible to calibrate all LAUDA Ecoline equipment in order to equalise temperature differences. You have the option of 1-point calibration which can be corrected and reset at any time. In addition to this option, the E 200 and E 300 control heads also offer 2-point factory calibration with an accuracy of 0.2 °C over the entire operating temperature range.



Cooling more economically

LAUDA Ecoline cooling thermostats use a powerful cooling unit with high reserve capacity to extract sufficient heat at the stated minimum temperatures. They have automatic refrigeration control that thinks rationally and economically. It switches the compressor on or off depending on the requirements. This saves energy, lengthens the lifetime of the compressor and makes the unit capable of being automated. The more powerful E 200 and E 300 units also have automatic cooling capacity adjustment, which allows for further savings and improvements in temperature control. By the way: All LAUDA Ecoline heating thermostats are fitted with cooling coils to enable operation with cold water, as well as pump connections for a LAUDA through-flow cooler, as standard naturally.





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Heating and cooling thermostats
for cost-effective thermostating in laboratories from -35 to 200 °C

LAUDA Ecoline thermostats offer you the top digital technology that is indispensable in the laboratory of today. In order to get only as much technology as you actually require, we have provided the Ecoline with three different control heads with different performance packages. You only pay for what you actually need.

Not everything in the laboratory is simply a question of technology. It is also a matter of economy.

The LAUDA Ecoline capabilities at a glance

E 100
- LCD display, resolution of indication 0.1 °C
- Symbols to show operating status
- Simple 3-key operation
- User-friendly menu guidance
- Display of actual or set temperature
- Overtemperature protection
- Low-level protection
- Vario pump technology
- Audible alarm
- Fault report with automatic self-tests
- Facility for calibration

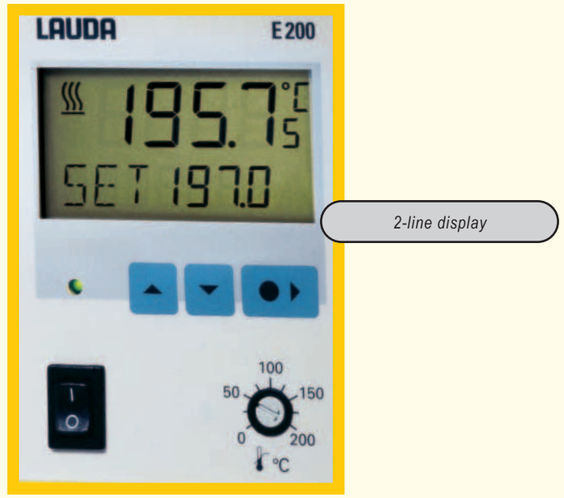
E 200 (as E 100, but additionally):
- 2-line LCD display, resolution of indication 0.05 °C
- Parallel display actual/set temperature
- Setting resolution selectable 0.1 °C or 0.01 °C
- Messages of operating states in clear text
- Remote fault indication through floating contact
- RS 232 and RS 485 interfaces
- 2-point factory calibration as standard

E 300 (as E 100/E 200, but additionally):
- Back-lit 2-line LCD display, resolution of indication 0.05/0.01 °C
- External control
- Programmer for max. 150 temperature/time segments, divided into 5 programs with loop, alteration and pause function
- Screw-on nipples with M 16x1 thread
- Mains voltage outputs for solenoid valve for controlled cooling with mains water or to operate through-flow cooler
- Analogue inputs and outputs 0...10 V or 0/4...20 mA with standard signals e.g. for peripheral equipment
- Remote control as accessory



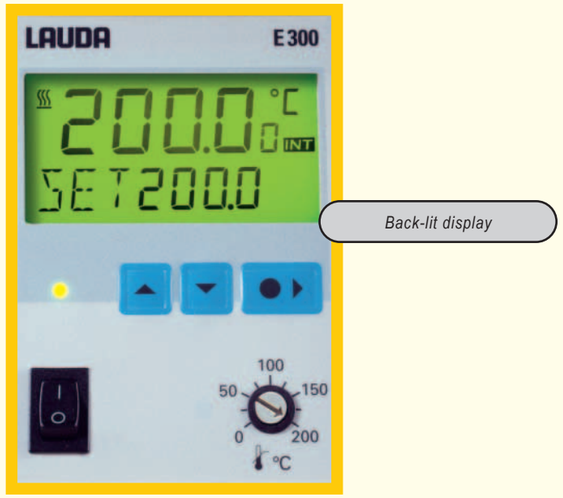
E 100: for simple applications

The E 100 devices are entry-level models in the LAUDA Ecoline range. They offer precisely the right degree of digital functionality that is required for conventional thermostating tasks in the laboratory; simple input via three keys, digital display, automatic safety functions with warning signals and switch-off for an excessively low level of liquid in the bath and overtemperature (safety class III, FL for use with flammable liquids), individual fault reports. You do not need to pay for anything that you do not actually need.



E 200: for demanding applications with plain text messages and digital interfaces

The E 200 devices are the LAUDA Ecoline models for increased requirements and an expanded temperature range. They offer precisely that extra degree of convenience and performance that is required for more demanding laboratory use: in addition to the digital safety functions of the E 100 units, there is also a 2-line display with parallel actual and set value display and plain text messages showing the operating states (e.g., SET, CAL, LEVEL). In addition, the E 200 units are PC- and BUS-compatible with their RS 232/485 interfaces. If you need more, you can get more – but not more than you actually need.

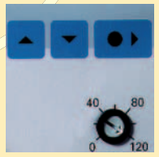


E 300: for programmable application with external control and controlled cooling capability

The E 300 devices are the top models of the LAUDA Ecoline series for maximum economy in the laboratory and with a back lit display for even better viewing. Whoever wants to make use of the options offered by modern microelectronics in a comprehensive and yet cost-effective way will find the ideal range of units here: in addition to the capabilities of the E 200 devices, the E 300 models also have a programming function to automate temperature sequences and test series. Their RS 232 and RS 485 interfaces make them PC- and BUS-compatible. As standard they can be used for external control, have analogue inputs and outputs with reference signals, e.g. for connection of peripherals, and have a solenoid valve connection for controlled cooling. In addition thus they offer high-tech at an ecoprice a truly economic option.

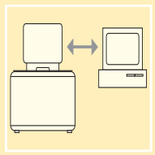


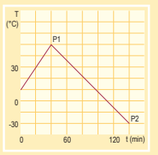


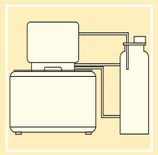














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Immersion thermostats and baths of various types

LAUDA offers with its Ecoline series a variety of different immersion thermostats – and matching baths. Just like immersion thermostats, they are characterised by their high-quality materials and their long life. They are available in various materials and bath volumes and thus form a complete custom made solution for all thermostating tasks up to 200 °C, in combination with immersion thermostats of the Ecoline range. Furthermore, LAUDA baths are also suitable for operation with older immersion thermostats from LAUDA – or from other manufacturers.

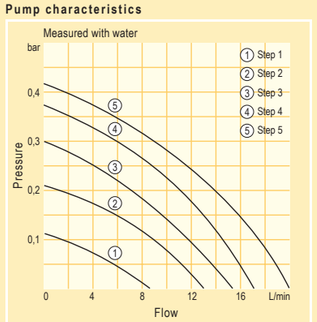
They don't let you down: The Ecoline immersion thermostats

Whoever is looking for thermostats that are powerful and compact has come just to the right place with these long-lasting immersion thermostats. They can be installed on practically any type of bath of up to 25 mm wall thickness with the integral screw clamps, and thus the design is very compact. In addition, a pump set, cooling coil and mounting rod can be supplied as accessories.



E 300 immersion thermostat

Pump characteristics



Recommended accessories

Cooling coil, accessory kit mounting rod

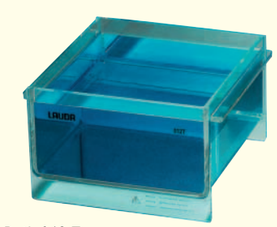
For further accessories please request separate Accessories Catalogue.



Technical features		E 100	E 200	E 300
Working temperature range	°C	20...120	20...200	20...200
Temperature stability	± °C	0.02	0.01	0.01
Heater power	kW	1.5	2.25	2.25
Pump pressure max.	bar	0.4	0.4	0.4
Pump flow max.	L/min	20	20	20
Bath volume	mm	min. 150	min. 150	min. 150
Usable immersion depth	mm	min. 100	min. 100	min. 100
Cat. No.	230 V; 50/60 Hz	**LCE 0221**	**LCE 0222**	**LCE 0223**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCE 4221**	**LCE 4222**	**LCE 4223**

All about baths

There is a whole series of transparent baths made of high-quality polycarbonate in order to view the objects being subjected to thermostating, and these can be used up to 100 °C. We offer 2 types of stainless steel baths: 1. Cost-effective baths made of deep-drawn stainless steel that can be used up to 150 °C, with an external jacket made of tough powder-coated sheet steel. 2. High-quality baths with special insulation up to 200 °C, a tough outer jacket with built-in drain tap and stable carrying handles.



Bath 012 T



Bath 006



Bath 019

Transparent baths		006 T	012 T	015 T	020 T
Material		Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Temperature max.	°C	100	100	100	100
Volume max.	L	7	13	15	20
Int. Dimensions (W x D x H)	mm	130x420x160*	300x315x160	416x130x310	300x490x160
Cat. No.		**LCZ 0628**	**LCZ 0629**	**LCZ 0630**	**LCZ 0631**

Stainless steel baths		003	011	019	025
Material		stainless steel	stainless steel	stainless steel	stainless steel
Temperature max.	°C	150	150	150	150
Volume max.	L	3.5	12	18	25
Int. Dimensions (W x D x H)	mm	135x240x150	300x329x150	300x505x150	300x505x200
Cat. No.		**LCZ 0620**	**LCZ 0621**	**LCZ 0622**	**LCZ 0623**

Stainless steel baths		006	012	020	026	040
Material		stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Temperature max.	°C	200	200	200	200	200
Volume max.	L	5.5	13	20	26	40
Int. Dimensions (W x D x H)	mm	150x260x160	300x305x160	300x480x160	300x480x200	300x750x200
Cat. No.		**LCZ 0624**	**LCZ 0625**	**LCZ 0626**	**LCZ 0627**	**LCZ 029**

* Dimensions of bath opening are overall dimensions of the bath which are slightly reduced downwards.

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Heating thermostats with transparent bath
Control head E 100 or E 200

LAUDA Ecoline units with transparent baths provide the necessary visibility in all cases where test samples need to be observed during thermostating. The baths are made from high-quality polycarbonate and are designed for working temperatures of up to 100 °C. LAUDA Ecoline thermostats are suitable for use with the E 100 and E 200 control heads (see also page 22). Both represent economic leading-edge technology with built-in safety functions.

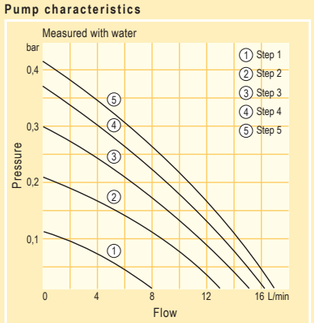
For people with an eye on economy: LAUDA Ecoline with E 100 control head

You are ideally set up to view samples when using the compact LAUDA Ecoline units with E 100 control head for a heating capacity of 1.5 kW and numerous safety functions. The temperature ranges from 20 °C to 100 °C, and the polycarbonate baths hold from 7 to 20 litres.



Heating thermostat E 106 T

Pump characteristics



Standard accessories

Closing plugs

Recommended accessories

Racks, cover plates (only E 115 T)

For further accessories please request separate Accessories Catalogue.



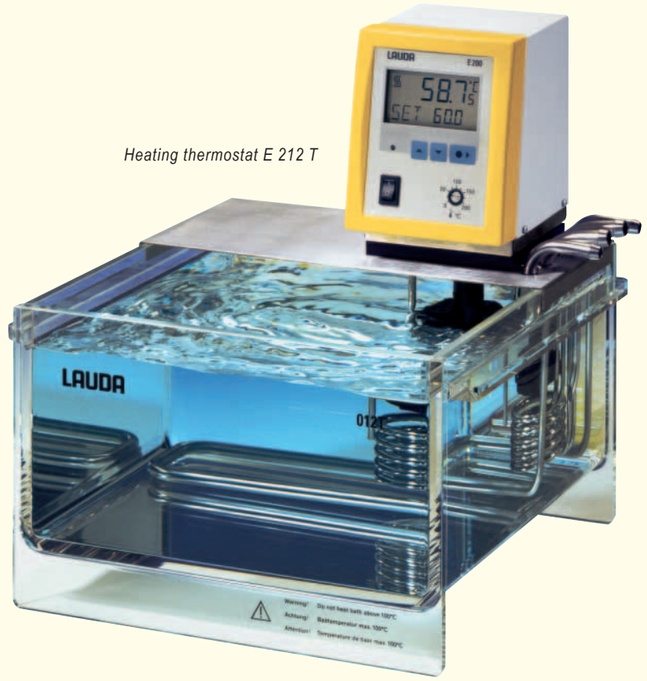
Technical features		E 106 T	E 112 T	E 115 T	E 120 T
Working temperature range	°C	20...100	20...100	20...100	20...100
Temperature stability	± °C	0.02	0.02	0.02	0.02
Heater power	kW	1.5	1.5	1.5	1.5
Discharge pressure max.	bar	0.4	0.4	0.4	0.4
Pump flow max.	L/min	17	17	17	17
Bath volume	L	5...7	9...13	10...15	14...20
Bath opening/depth	mm	130x285*/160	300x175/160	275x130/310	300x350/160
Cat. No.	230 V; 50/60 Hz	**LCM 0091**	**LCD 0261**	**LCD 0263**	**LCD 0265**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCM 4091**	**LCD 4261**	**LCD 4263**	**LCD 4265**

* Dimensions of bath opening are overall dimensions of the bath which are slightly reduced downwards.

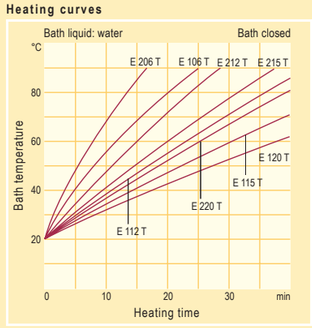
Transparency at a higher level: LAUDA Ecoline with E 200 control head

Units with the E 200 control head offer in addition to the capabilities of the E 100 control head a higher heating capacity of 2.25 kW and increased convenience. They differ in appearance from their sisters by their two-line large displays–the temperature ranges and the bath volumes are the same.

Heating thermostat E 212 T



Heating curves



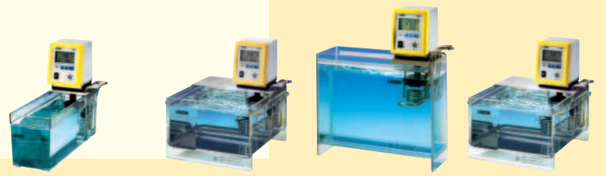
Standard accessories

Closing plugs

Recommended accessories

Racks, cover plates (only E 215 T)

For further accessories please request separate Accessories Catalogue.



Technical features		E 206 T	E 212 T	E 215 T	E 220 T
Working temperature range	°C	20...100	20...100	20...100	20...100
Temperature stability	± °C	0.01	0.01	0.01	0.01
Heater power	kW	2.25	2.25	2.25	2.25
Discharge pressure max.	bar	0.4	0.4	0.4	0.4
Pump flow max.	L/min	17	17	17	17
Bath volume	L	5...7	9...13	10...15	14...20
Bath opening/depth	mm	130x285*/160	300x175/160	275x130/310	300x350/160
Cat. No.	230 V; 50/60 Hz	**LCM 0092**	**LCD 0262**	**LCD 0264**	**LCD 0266**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCM 4092**	**LCD 4262**	**LCD 4264**	**LCD 4266**

* Dimensions of bath opening are overall dimensions of the bath which are slightly reduced downwards.

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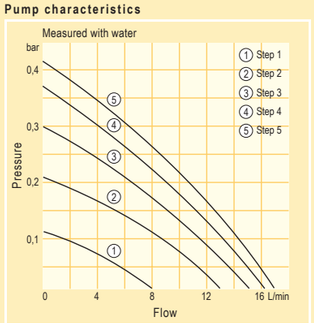
Heating thermostats with stainless steel bath
Control head E 100 or E 200

LAUDA Ecoline thermostatic baths are available in various sizes. One thing they all have in common: the quality of their baths. They are all made from high-quality stainless steel, whether this involves the lower-priced variants that can be used up to 150 °C or high-quality versions with insulation for temperatures up to 200 °C. There are control heads for all types of applications: from the E 100 units working at up to 120 °C to the E 200 units for up to 150 °C and the E 300 units for up to 200 °C. Whichever you choose, you have in any case chosen the economic leading-edge technology of the LAUDA brand.

Hot performance: LAUDA Ecoline with control head E 100

The E 100 units have a heating capacity of 1.5 kW and a temperature range of up to 120 °C. The devices include the full Ecoline safety standards: With two safety circuits, self-diagnosis, overtemperature and low level protection. In addition, they are also suitable for operation with flammable liquids (Safety class III, FL).

Pump characteristics



Standard accessories

Cover plate (only E 103)
closing plugs

Recommended accessories

Racks, rising platfroms

For further accessories please request separate Accessories Catalogue.



Heating thermostat E 103



Technical features		E 103	E 111	E 119	E 125	E 140
Working temperature range	°C	20...120	20...120	20...120	20...120	20...120
Temperature stability	± °C	0.02	0.02	0.02	0.02	0.02
Heater power	kW	1.5	1.5	1.5	1.5	1.5
Discharge pressure max.	bar	0.4	0.4	0.4	0.4	0.4
Pump flow max.	L/min	17	17	17	17	17
Bath volume	L	2.5...3.5	9...12	12...18	19...25	30...40
Bath opening*/depth	mm	135x105/150	300x190/150	300x365/150	300x365/200	300x613/200
Cat. No.	230 V; 50/60 Hz	**LCB 0691**	**LCB 0693**	**LCB 0695**	**LCB 0697**	**LCB 0706**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCB 4691**	**LCB 4693**	**LCB 4695**	**LCB 4697**	**LCB 4706**

* Dimensions of bath opening are overall dimensions of the bath which are slightly reduced downwards.

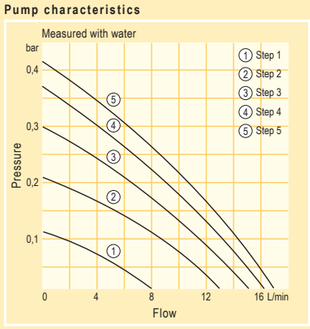
To heat the bath more quickly: LAUDA Ecoline with control head E 200

With the high-performance E 200 devices, you can temper with 2.25 kW, ranging up to a temperature of 150 °C, and still fall back on a high degree of operating comfort.

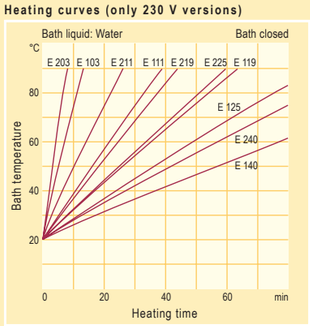


Heating thermostat E 211

Pump characteristics



Heating curves (only 230 V versions)



Standard accessories

Cover plate (only E 203)
closing plugs

Recommended accessories

Racks, rising platfroms

For further accessories please request separate Accessories Catalogue.



Technical features		E 203	E 211	E 219	E 225	E 240
Working temperature range	°C	20...150	20...150	20...150	20...150	20...150
Temperature stability	± °C	0.01	0.01	0.01	0.01	0.01
Heater power	kW	2.25	2.25	2.25	2.25	2.25
Discharge pressure max.	bar	0.4	0.4	0.4	0.4	0.4
Pump flow max.	L/min	17	17	17	17	17
Bath volume	L	2.5...3.5	9...12	12...18	19...25	30...40
Bath opening*/depth	mm	135x105/150	300x190/150	300x365/150	300x365/200	300x613/200
Cat. No.	230 V; 50/60 Hz	**LCB 0692**	**LCB 0694**	**LCB 0696**	**LCB 0698**	**LCB 0707**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCB 4692**	**LCB 4694**	**LCB 4696**	**LCB 4698**	**LCB 4707**

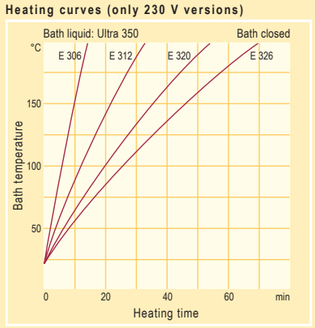
* Dimensions of bath opening are overall dimensions of the bath which are slightly reduced downwards.

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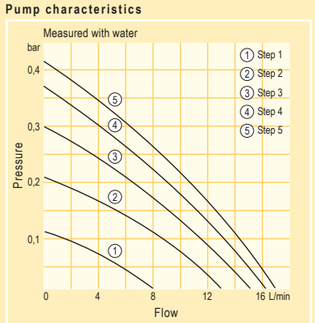
Heating and Cooling thermostats with stainless steel bath
Control head E 300 and E 100

Whatever applies for LAUDA Ecoline heating bath thermostats, is just as true for the matching cooling series. Baths of various sizes made of high-quality stainless steel are made to measure for all of your wishes and provide optimum cooling and heating curves thanks to their insulation. All of the Ecoline cooling thermostats are equipped with power-saving automatic refrigeration control. All the units have carrying handles and a drain tap. The panel with the ventilation slots at the front can easily be removed for cleaning.

Heating curves (only 230 V versions)



Pump characteristics



Standard accessories

Cover plate, nipples, screw caps, closing plugs

Recommended accessories

Solenoid valve for cooling water control

For further accessories please request separate Accessories Catalogue.

The top of the line for economic thermostating: LAUDA Ecoline with E 300 control head

The E 300 devices are the top units of the LAUDA Ecoline heating thermostats. They allow thermostating up to 200 °C. Their convenient stainless steel baths are provided as standard with special insulation, drain tap and carrying handles. The bath volumes range from 3.5 to 26 litres.



Heating thermostat E 326



Technical features		E 306	E 312	E 320	E 326
Working temperature range	°C	20...200	20...200	20...200	20...200
Temperature stability	± °C	0.01	0.01	0.01	0.01
Heater power	kW	2.25	2.25	2.25	2.25
Discharge pressure max.	bar	0.4	0.4	0.4	0.4
Pump flow max.	L/min	17	17	17	17
Bath volume	L	3.5...5.5	8...13	13...20	19...26
Bath opening/depth	mm	150x130/160	300x175/160	300x350/160	300x350/200
Cat. No.	230 V; 50/60 Hz	**LCB 0699**	**LCB 0700**	**LCB 0701**	**LCB 0702**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCB 4699**	**LCB 4700**	**LCB 4701**	**LCB 4702**

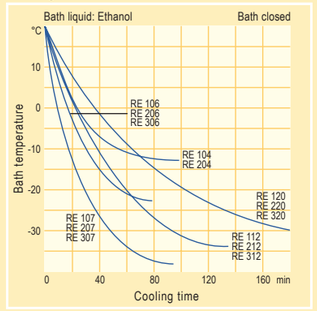
For the cool and calculating: the LAUDA Ecoline with E 100 control head

LAUDA Ecoline cooling thermostats of the E 100 series are the economical generalists for performance requirements ranging from -40 up to 120 °C. Bestseller, the RE 104, has an extremely small footprint. In spite of its small external dimensions, the RE 107 is especially high in performance, and can work downwards to as low as -35 °C, and the new RE 110 can even achieve temperatures as low as -40 °C, additionally offering increased cooling performance. RE 112 and RE 120 are fitted with larger baths for direct thermostating.

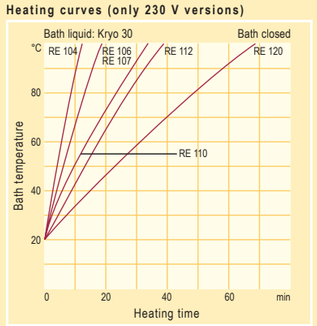


Cooling thermostat RE 104

Cooling curves



Heating curves (only 230 V versions)



Standard accessories

Bath cover (except for RE 120), closing plugs

Recommended accessories

Tubes, rinsing plateforms

For further accessories please request separate Accessories Catalogue.



Technical features		RE 104	RE 106	RE 107	RE 110	RE 112	RE 120
Working temperature range*	°C	-10...120	-20...120	-35...120	-40...120	-30...120	-30...120
Temperature stability	± °C	0.02	0.02	0.04	0.04	0.04	0.04
Heater power	kW	1.5	1.5	1.5	1.5	1.5	1.5
Cooling output at 20 °C	kW	0.18	0.20	0.30	0.50	0.30	0.35
Discharge pressure max.	bar	0.4	0.4	0.4	0.4	0.4	0.4
Pump flow max.	L/min	17	17	17	17	17	17
Bath volume	L	3...4.5	4...6	4...6	7...9.5	9...12	14...20
Bath opening/depth	mm	130x105/160	150x130/160	150x130/160	200x200/160	200x200/200	300x350/160
Cat. No.	230 V; 50 Hz	**LCK 0861****	**LCK 0864 ****	**LCK 1867**	**LCK 1882**	**LCK 1870**	**LCK 1873**
Cat. No.	230 V; 60 Hz	**LCK 0861****	**LCK 0864 ****	**LCK 2867**	**LCK 8882**	**LCK 2870**	**LCK 2873**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCK 4861**	**LCK 4864**	**LCK 4867**	**LCK 4882**	**LCK 4870**	**LCK 4873**

* Working temperature range is equal to ACC-range. ** 50/60 Hz

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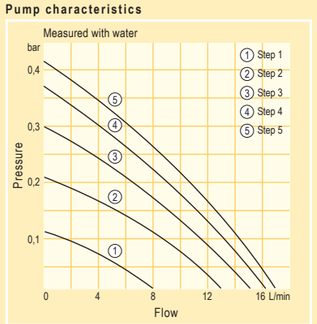
Cooling thermostats mit stainless steel bath
Control head E 200 or E 300

The Ecoline cooling thermostats of models RE 2XX and RE 3XX with a cooling capacity from 0.3 kW (20 °C) onwards have automatic cooling capacity adjustment.

Comfortable in lower regions: LAUDA Ecoline mit control head E 200

The E 200 devices surpass the E 100 units with a higher degree of operating comfort: 2-line display with clear text messages which show the operating status as well as the PC- and BUS-suitable interfaces. RE 204 has an extremely small footprint. In spite of its small external dimensions, the RE 207 is especially high in performance, and can work downwards to as low as -35 °C, and the new RE 210 can even achieve temperatures as low as -40 °C, and offers increased cooling performance. RE 212 and RE 220 are fitted with larger baths for direct thermostating.

Pump characteristics



Standard accessories

Bath cover (except for RE 220), closing plugs

Recommended accessories

Tubes, rising platforms

For further accessories please request separate Accessories Catalogue.



Cooling thermostat RE 204



Yet another few degrees more powerful: LAUDA Ecoline with control head E 300

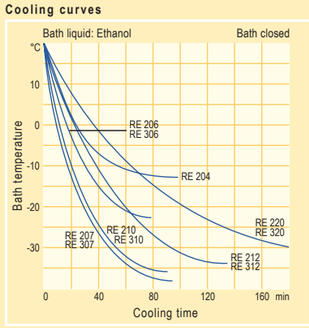
The E 300 units offer the peak of technology for maximum thermostating ranges up to 200 °C, with programmer function. These units have as standard an external control and analogue inputs and outputs using reference signals. The bath sizes range from compact sizes up to 20 litres. The RE 310 even offers increased cooling performance and can work down to temperatures as low as -40 ° C.



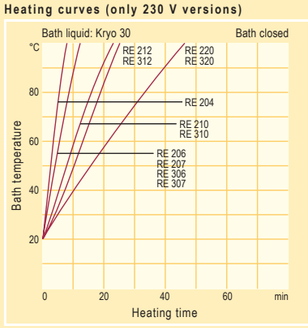
Cooling thermostat RE 320



Cooling curves



Heating curves (only 230 V versions)



Standard accessories

Cover plate, 2 nipples 13 mm Ø, 2 screw caps, 2 closing plugs

Recommended accessories

Tubes, rising platforms

For further accessories please request separate Accessories Catalogue.

Technical features		RE 204	RE 206	RE 207	RE 210	RE 212	RE 220
Working temperature range*	°C	-10...200	-20...200	-35...200	-40...200	-30...200	-30...200
Temperature stability	± °C	0.01	0.01	0.02	0.02	0.02	0.02
Heater power	kW	2.25	2.25	2.25	2.25	2.25	2.25
Cooling output at 20 °C	kW	0.18	0.20	0.30	0.50	0.30	0.35
Discharge pressure max.	bar	0.4	0.4	0.4	0.4	0.4	0.4
Pump flow max.	L/min	17	17	17	17	17	17
Bath volume	L	3...4.5	4...6	4...6	7...9.5	9...12	14...20
Bath opening/depth	mm	130x105/160	150x130/160	150x130/160	200x200/160	200x200/200	300x350/160
Cat. No.	230 V; 50 Hz	**LCK 0862****	**LCK 0865****	**LCK 1868**	**LCK 1883**	**LCK 1871**	**LCK 1874**
Cat. No.	230 V; 60 Hz	**LCK 0862****	**LCK 0865****	**LCK 2868**	**LCK 8883**	**LCK 2871**	**LCK 2874**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCK 4862**	**LCK 4865**	**LCK 4868**	**LCK 4883**	**LCK 4871**	**LCK 4874**

* Working temperature range is equal to the ACC-range. ** 50/60 Hz

Technical features		RE 306	RE 307	RE 310	RE 312	RE 320
Working temperature range*	°C	-20...200	-35...200	-40...200	-30...200	-30...200
Temperature stability	± °C	0.01	0.02	0.02	0.02	0.02
Heater power	kW	2.25	2.25	2.25	2.25	2.25
Cooling output at 20 °C	kW	0.20	0.30	0.50	0.30	0.35
Discharge pressure max.	bar	0.4	0.4	0.4	0.4	0.4
Pump flow max.	L/min	17	17	17	17	17
Bath volume	L	4...6	4...6	7...9.5	9...12	14...20
Bath opening/depth	mm	150x130/160	150x130/160	200x200/160	200x200/200	300x350/160
Cat. No.	230 V; 50 Hz	**LCK 0866****	**LCK 1869**	**LCK 1884**	**LCK 1872**	**LCK 1875**
Cat. No.	230 V; 60 Hz	**LCK 0866****	**LCK 2869**	**LCK 8884**	**LCK 2872**	**LCK 2875**
Cat. No.	115 V; 60 Hz (Heater power 1.3 kW)	**LCK 4866**	**LCK 1869**	**LCK 4884**	**LCK 4872**	**LCK 4875**

* Working temperature range is equal to the ACC-range. ** 50/60 Hz

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