

Heating, Cooling and Circulation Thermostats, LAUDA

The basis of the concept is the subdivision into thermostats for internal applications and thermostats for external applications. Heating and cooling bath thermostats have been optimized for internal applications. Circulation thermostats are provided for external applications. Small active volumes enable rapid temperature changes. All thermostats are equipped with an Ethernet and a USB interface as well as a Pt100 connection as standard. The cooling thermostats are available with natural refrigerants. In addition, they are also equipped with a hybrid cooling system as a standard. This enables additional cooling of the refrigerating machine with water.

Choose between the following two operating units. For optimum flexibility, they can be removed from the thermostat.

Operating unit Base

- Bright, high-contrast OLED display
- Plain-text menu navigation via softkey and cursor
- Programmer with 1 program with 20 segments
- Temperature indication in °C or °F
- Menu navigation available in 5 languages

Operating unit Command Touch

- Large colour touchscreen (5.7") with Multi-Touch operation
- Touchscreen can be operated with gloves
- Programmer with 100 programs with 50 segments each
- Week timer and countdown function
- Ramp function
- Data logging, export to USB stick
- Individual operator rights for up to 20 users
- Temperature indication in °C or °F
- Menu navigation available in 8 languages

PRO heating bath thermostats

The PRO heating bath thermostats are optimized for applications in the bath, offering an excellent temperature stability of ± 0.01 K. The operating unit plus holder can be removed to significantly reduce the height of the instrument.

Type	Operation unit	Temperature range °C	Bath volume l	Bath opening/depth mm	Order No.
① P 10	Base	40 – 250	5.5 – 10	240×150/200	10 23 38001
P 20	Base	35 – 250	11 – 20	300×290/200	10 23 38002
P 30	Base	30 – 250	15.5 – 28.5	340×385/200	10 23 38003
P 10 C	Command Touch	40 – 250	5.5 – 10	240×150/200	10 23 38004
P 20 C	Command Touch	35 – 250	11 – 20	300×290/200	10 23 38005
P 30 C	Command Touch	30 – 250	15.5 – 28.5	340×385/200	10 23 38006

Operating temperature range with water cooling 20 – 250°C

PRO cooling bath thermostats

In the PRO cooling bath thermostats for internal application, a multi-stage adjustable pump ensures good mixing of the bath. Hybrid cooling of the refrigerating machine permits cooling using ambient air and, supplementary cooling water. Standard bath edge heating on all devices prevents the formation of ice on the surface of the bath cover.

Type	Operation unit	Temperature range °C	Cooler cap. at 20°C kW	Bath volume l	Bath opening/depth mm	Order No.
RP 2040	Base	-40 – 200	0,8	12.5 – 21	300×290/200	10 23 38007
RP 2045	Base	-45 – 200	1,5	12.5 – 21	300×290/200	10 23 38008
RP 3035	Base	-35 – 200	0,8	17.5 – 29.5	340×375/200	10 23 38009
RP 1090	Base	-90 – 200	0,8	6.5 – 11	240×150/200	10 23 38010
RP 2090	Base	-90 – 200	0,8	12.5 – 21	300×290/200	10 23 38011
RP 10100	Base	-100 – 200	0,4	6.5 – 11	240×150/200	10 23 38012
② RP 2040 C	Command Touch	-40 – 200	0,8	12.5 – 21	300×290/200	10 23 38013
RP 2045 C	Command Touch	-45 – 200	1,5	12.5 – 21	300×290/200	10 23 38014
RP 3035 C	Command Touch	-35 – 200	0,8	17.5 – 29.5	340×375/200	10 23 38015
RP 1090 C	Command Touch	-90 – 200	0,8	6.5 – 11	240×150/200	10 23 38016
RP 2090 C	Command Touch	-90 – 200	0,8	12.5 – 21	300×290/200	10 23 38017
RP 10100 C	Command Touch	-100 – 200	0,4	6.5 – 11	240×150/200	10 23 38018



PRO heating circulation thermostats

The PRO heating circulation thermostats are designed for external applications up to 250°C. The small filling volume permits rapid heating in the external applications. The compact construction permits space-saving installation of the thermostats. An integrated cooling coil, fitted as standard, provides cooling.

Technical Data:

Temperature accuracy: ± 0.05 K
Heater capacity: 2.5 kW
Pump pressure/suction: 0.7 / 0.4 bar
Flow rate pressure/suction: 22 / 20 l/min

Type	Operation unit	Temp. range °C	Order No.
③ P 2 E	Base	80 – 250	10 23 38019
P 2 EC	Command Touch	80 – 250	10 23 38020

Operating temperature range with water cooling 20 – 250°C

PRO cooling circulation thermostats

The PRO cooling circulation thermostats are ideal for external applications where rapid temperature changes are required. The cooling output of 0.6 and 0.8 kW, combined with a very small filling volume permit these rapid temperature changes. All devices are fitted with a pressure-suction pump. Hybrid cooling of the refrigerating machine permits cooling using ambient air and, supplementary cooling water.

Technical Data:

Temperature accuracy: ± 0.05 K
Heater capacity: 2.5 kW
Pump pressure/suction: 0.7 / 0.4 bar
Flow rate pressure/suction: 22 / 20 l/min

Type	Operation unit	Temperature range °C	Cooler capa- city at 20°C kW	Order No.
RP 240 E	Base	-40 – 200	0.6	10 23 38021
RP 245 E	Base	-45 – 200	0.8	10 23 38022
④ RP 240 EC	Command Touch	-40 – 200	0.6	10 23 38023
RP 245 EC	Command Touch	-45 – 200	0.8	10 23 38024

