LAUDA
COOLING THERMOSTATS

Specific application examples

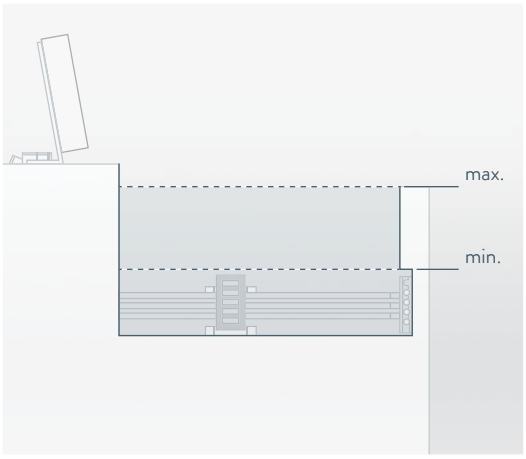
- Sample preparation in chemistry and pharmacy
- Functional testing of electronic components
- Test of slide bearings
- Valve testing
- Stress test
- Notch bending test
- Expansion testing
- Brookfield test
- Semi-conductor coating

LAUDA PRO

Cooling bath thermostats for professional temperature control from –100 to 200 °C

Flexible operation, outstanding performance
With LAUDA PRO, customers gain access to a cutting-edge product line with an outstanding overall concept. There are two operating units available: Base or Command Touch. These can be removed from the thermostat for very high levels of flexibility. On the one hand, this permits remote control of the devices and on the other hand, this considerably reduces the height of the devices. In addition, they are also equipped with a hybrid cooling system as standard. This enables additional cooling of the refrigerating machine with water.

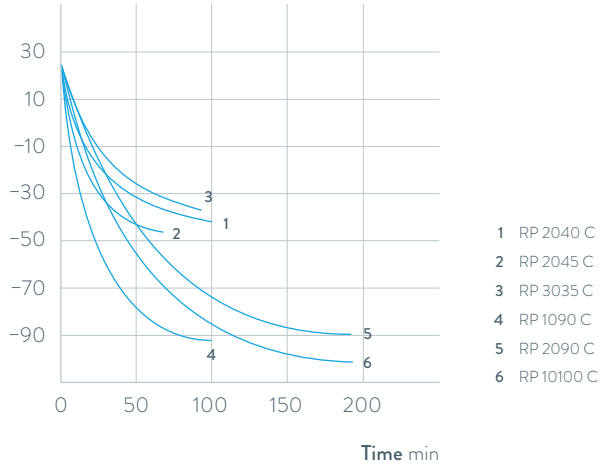
Low device height and 360° accessibility of the bath thanks to detachable remote control



Full functionality of the bath with low minimum fill height

COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed

Bath temperature °C



Time min

1 RP 2040 C
2 RP 2045 C
3 RP 3035 C
4 RP 1090 C
5 RP 2090 C
6 RP 10100 C

Important functions
- Internal LAUDA Vario Pump with 8 selectable output levels
- Hybrid cooling of the refrigerating machine permits cooling using ambient air or, in addition, using cooling water
- Standard bath edge heating on all types prevents the formation of ice on the surface of the bath cover
- Ethernet, USB and Pt100 as standard

Included accessories
Bath cover, tubing nipples with screw caps for the cooling coil

Further accessories
External pump, interface modules

All technical data and power supply variants can be found in the ›Technical data‹ section.

More at **www.lauda.de/1740**

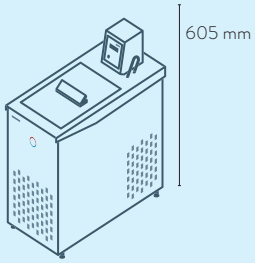
LAUDA PRO

The PRO cooling bath thermostats for internal bath applications offer a working temperature range from −100 to 200 °C. An incrementally adjustable pump ensures excellent homogeneity of the bath. With their bath sizes from 10 to 30 liters and cooling capacity from 0.4 to 1.5 kW, the thermostats are suitable for a wide range of applications.

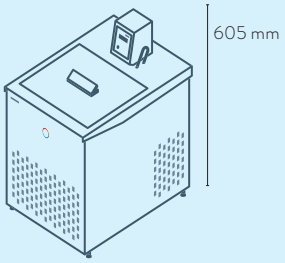
LAUDA Cooling thermostats

Device type overview

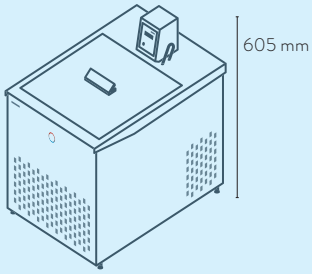
LAUDA Alpha / Page 60



RA 8

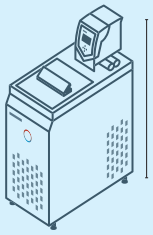


RA 12

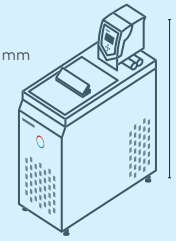


RA 24

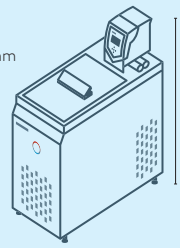
LAUDA ECO / Page 62



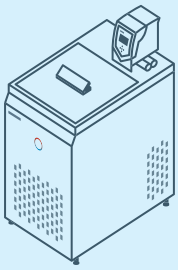
RE 415 S
RE 415 G



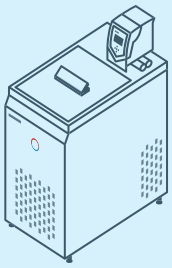
RE 420 S
RE 420 G



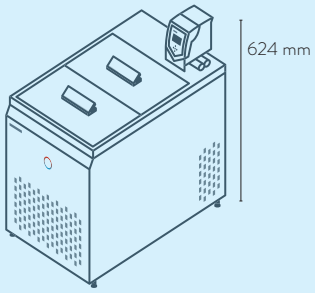
RE 630 S
RE 630 G



RE 1050 S
RE 1050 G

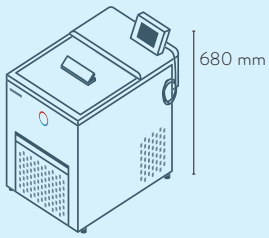


RE 1225 S
RE 1225 G

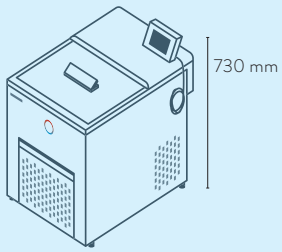


RE 2025 S
RE 2025 G

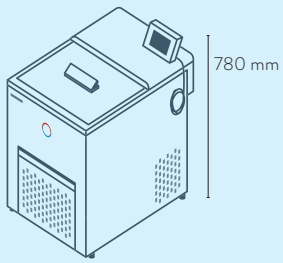
LAUDA PRO / Page 64



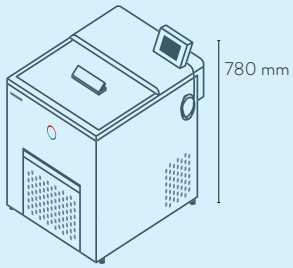
RP 2040 C
RP 2045 C



RP 3035 C

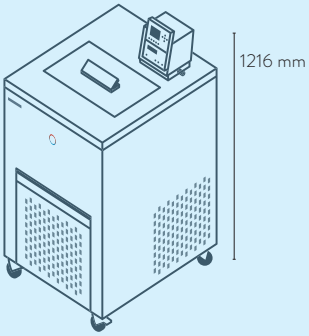


RP 1090 C

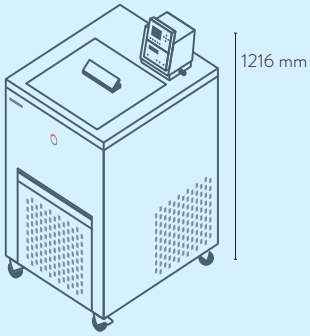


RP 2090 C
RP 10100 C

LAUDA Proline Kryomats / Page 66



RP 3090 C / RP 3090 CW



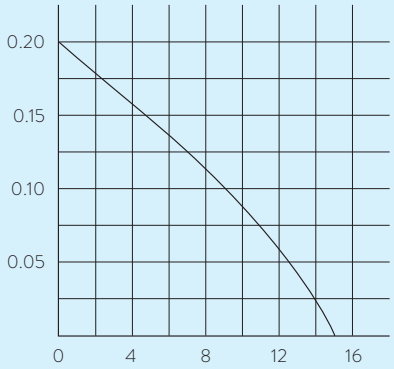
RP 4050 C / RP 4050 CW
RP 4090 C / RP 4090 CW

LAUDA Cooling thermostats
More characteristics

LAUDA Alpha / Page 60

PUMP CHARACTERISTIC Water

Pressure bar

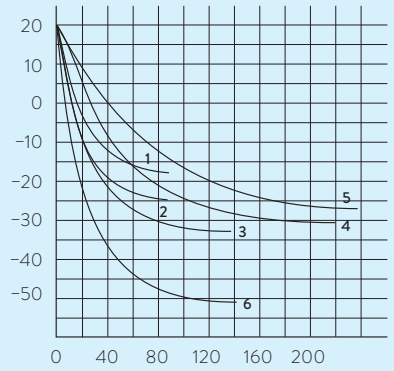


Pump flow L/min

LAUDA ECO / Page 62

COOLING PERFORMANCE According to DIN 12876

Bath temperature °C

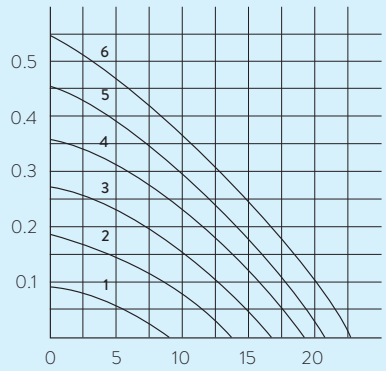


Time min

1 RE 415 S
2 RE 420 S
3 RE 630 S
4 RE 1225 S
5 RE 2025 S
6 RE 1050 S

PUMP CHARACTERISTIC Water

Pressure bar



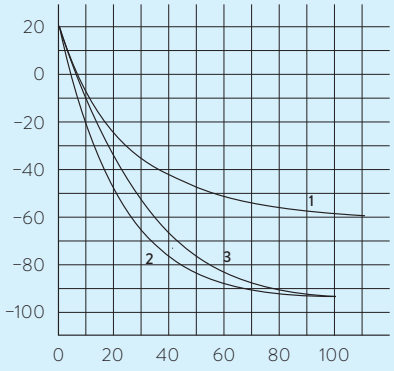
Pump flow L/min

1 Step 1
2 Step 2
3 Step 3
4 Step 4
5 Step 5
6 Step 6

LAUDA Proline Kryomats / Page 66

COOLING PERFORMANCE According to DIN 12876

Bath temperature °C



Time min

1 RP 4050 CW
2 RP 3090 CW
3 RP 4090 CW

LAUDA Cooling thermostats

Technical data according to DIN 12876 standard

Device type	Working temperature range °C	Temperature stability ±K	Safety fittings	Heater power max. kW	Cooling output kW														Pump type	Pump pressure max. bar
					20 °C	10 °C	0 °C	-10 °C	-20 °C	-25 °C	-30 °C	-40 °C	-50 °C	-60 °C	-70 °C	-80 °C	-90 °C	-100 °C		
LAUDA PRO / Page 64																				
RP 2040	-40 ... 200	0.01	III, FL	3.6	0.80[3]	0.80[3]	0.80[3]	0.60[3]	0.40[2]	-	0.19[2]	0.06[2]	-	-	-	-	-	-	V	-
RP 2045	-45 ... 200	0.01	III, FL	3.6	1.50[3]	1.43[3]	1.17[3]	0.84[3]	0.52[2]	-	0.28[2]	0.13[2]	-	-	-	-	-	-	V	-
RP 3035	-35 ... 200	0.01	III, FL	3.6	0.80[3]	0.80[3]	0.80[3]	0.58[3]	0.35[2]	-	0.16[2]	-	-	-	-	-	-	-	V	-
RP 1090	-90 ... 200	0.01	III, FL	3.6	0.80[3]	0.75[3]	0.72[3]	0.69[3]	0.66[2]	-	0.63[2]	0.60[2]	0.54[2]	0.37[2]	0.24[2]	0.11[2]	0.02[2]	-	V	-
RP 2090	-90 ... 200	0.01	III, FL	3.6	0.80[3]	0.71[3]	0.68[3]	0.65[3]	0.62[2]	-	0.61[2]	0.58[2]	0.52[2]	0.34[2]	0.18[2]	0.07[2]	0.01[2]	-	V	-
RP 10100	-100 ... 200	0.01	III, FL	3.6	0.40[3]	0.40[3]	0.40[3]	0.40[3]	0.40[2]	-	0.39[2]	0.37[2]	0.35[2]	0.32[2]	0.25[2]	0.17[2]	0.06[2]	0.01[2]	V	-
RP 2040 C	-40 ... 200	0.01	III, FL	3.6	0.80[3]	0.80[3]	0.80[3]	0.60[3]	0.40[2]	-	0.19[2]	0.06[2]	-	-	-	-	-	-	V	-
RP 2045 C	-45 ... 200	0.01	III, FL	3.6	1.50[3]	1.43[3]	1.17[3]	0.84[3]	0.52[2]	-	0.28[2]	0.13[2]	-	-	-	-	-	-	V	-
RP 3035 C	-35 ... 200	0.01	III, FL	3.6	0.80[3]	0.80[3]	0.80[3]	0.58[3]	0.35[2]	-	0.16[2]	-	-	-	-	-	-	-	V	-
RP 1090 C	-90 ... 200	0.01	III, FL	3.6	0.80[3]	0.75[3]	0.72[3]	0.69[3]	0.66[2]	-	0.63[2]	0.60[2]	0.54[2]	0.37[2]	0.24[2]	0.11[2]	0.02[2]	-	V	-
RP 2090 C	-90 ... 200	0.01	III, FL	3.6	0.80[3]	0.71[3]	0.68[3]	0.65[3]	0.62[2]	-	0.61[2]	0.58[2]	0.52[2]	0.34[2]	0.18[2]	0.07[2]	0.01[2]	-	V	-
RP 10100 C	-100 ... 200	0.01	III, FL	3.6	0.40[3]	0.40[3]	0.40[3]	0.40[3]	0.40[2]	-	0.39[2]	0.37[2]	0.35[2]	0.32[2]	0.25[2]	0.17[2]	0.06[2]	0.01[2]	V	-
LAUDA Proline Kryomats / Page 66																				
RP 4050 C	-50 ... 200	0.01	III, FL	3.5	5.00[1]	-	3.00[1]	-	1.60[1]	-	1.00[1]	0.50[1]	0.25[1]	-	-	-	-	-	V	0.5
RP 4050 CW	-50 ... 200	0.01	III, FL	3.5	6.00[1]	-	3.50[1]	-	1.80[1]	-	1.10[1]	0.60[1]	0.25[1]	-	-	-	-	-	V	0.5
RP 3090 C	-90 ... 200	0.01	III, FL	3.5	3.00[1]	-	2.90[1]	-	2.50[1]	-	2.30[1]	2.00[1]	1.60[1]	1.30[1]	0.80[1]	0.50[1]	0.15[1]	-	V	0.5
RP 3090 CW	-90 ... 200	0.01	III, FL	3.5	4.00[1]	-	3.70[1]	-	3.10[1]	-	2.70[1]	2.00[1]	1.60[1]	1.30[1]	0.80[1]	0.50[1]	0.15[1]	-	V	0.5
RP 4090 C	-90 ... 200	0.01	III, FL	3.5	3.00[1]	-	2.90[1]	-	2.50[1]	-	2.30[1]	2.00[1]	1.60[1]	1.30[1]	0.80[1]	0.50[1]	0.15[1]	-	V	0.5
RP 4090 CW	-90 ... 200	0.01	III, FL	3.5	4.00[1]	-	3.70[1]	-	3.10[1]	-	2.70[1]	2.00[1]	1.60[1]	1.30[1]	0.80[1]	0.50[1]	0.15[1]	-	V	0.5

[1] Pump output step 2 [2] Pump output step 4 [3] Pump output step 8 All device types with mark › W ‹ are water-cooled

Pump flow max. pressure L /min	Pump connection thread mm	Nipples Ø e	Bath volume min. L	Bath volume max. L	Bath opening (W × D) mm	Bath depth mm	Usable depth mm	Heigth top of bath mm	Dimensions (W × D × H) mm	Weight kg	Power supply V; Hz	Loading max. kW	Part Number	Device type
-	N/A	-	12.5	21.0	400×565	200	180	568	400×565×680	51.0	230 V; 50 Hz	3.7	L000007	RP 2040
-	N/A	-	12.5	21.0	400×565	200	180	568	400×565×680	58.5	230 V; 50 Hz	3.7	L000008	RP 2045
-	N/A	-	17.5	29.5	440×600	200	180	568	440×600×680	54.0	230 V; 50 Hz	3.7	L000009	RP 3035
-	N/A	-	6.5	10.5	440×600	200	180	618	440×600×730	85.0	230 V; 50 Hz	3.7	L000010	RP 1090
-	N/A	-	12.5	21.0	500×600	200	180	618	500×600×730	90.5	230 V; 50 Hz	3.7	L000011	RP 2090
-	N/A	-	6.5	10.5	500×600	200	180	618	500×600×730	85.5	230 V; 50 Hz	3.7	L000012	RP 10100
-	N/A	-	12.5	21.0	400×565	200	180	568	400×565×730	52.0	230 V; 50 Hz	3.7	L000013	RP 2040 C
-	N/A	-	12.5	21.0	400×565	200	180	568	400×565×730	58.5	230 V; 50 Hz	3.7	L000014	RP 2045 C
-	N/A	-	17.5	29.5	440×600	200	180	568	440×600×730	54.5	230 V; 50 Hz	3.7	L000015	RP 3035 C
-	N/A	-	6.5	10.5	440×600	200	180	618	440×600×780	86.0	230 V; 50 Hz	3.7	L000016	RP 1090 C
-	N/A	-	12.5	21.0	500×600	200	180	618	500×600×780	92.0	230 V; 50 Hz	3.7	L000017	RP 2090 C
-	N/A	-	6.5	10.5	500×600	200	180	618	500×600×780	85.5	230 V; 50 Hz	3.7	L000018	RP 10100 C

19.0	-	13	32.0	44.0	600×700	250	230	905	600×700×1216	128.5	400 V; 3/N/PE; 50 Hz	5.0	L001653	RP 4050 C
19.0	-	13	32.0	44.0	600×700	250	230	905	600×700×1216	124.0	400 V; 3/N/PE; 50 Hz	5.0	L001657	RP 4050 CW
19.0	M16×1	13	23.0	31.0	600×700	250	230	905	600×700×1216	161.5	400 V; 3/N/PE; 50 Hz	7.0	L001654	RP 3090 C
19.0	M16×1	13	23.0	31.0	600×700	250	230	905	600×700×1216	159.5	400 V; 3/N/PE; 50 Hz	7.0	L001658	RP 3090 CW
19.0	M16×1	13	32.0	44.0	600×700	250	230	905	600×700×1216	160.5	400 V; 3/N/PE; 50 Hz	7.0	L001655	RP 4090 C
19.0	M16×1	13	32.0	44.0	600×700	250	230	905	600×700×1216	160.0	400 V; 3/N/PE; 50 Hz	7.0	L001659	RP 4090 CW

LAUDA Cooling thermostats

Function overview

Operating element	Alpha	ECO S	ECO G	PRO Base	PRO Command Touch	Proline Kryomats
Display	7-Segment	LCD mono	TFT	OLED	TFT	LCD mono
Mode of operation	3-button	3-button softkey	Cursor softkey	Cursor softkey	Multi-touch	Cursor softkey
Removable control	-	-	-	✓	✓	✓
User management	-	-	-	-	✓	-
Data logging, export to USB stick	-	-	-	-	✓	-
1-point calibration	✓	✓	✓	✓	✓	✓
2-point calibration	-	-	-	✓	✓	-
Programmer, programs/segments	-	1 / 20	5 / 150	1 / 20	100 / 5000	5 / 150
Programmer, tolerance range function	-	✓	✓	✓	✓	✓
Ramp function	-	-	-	-	✓	✓
Timer function	-	-	-	-	✓	✓
Countdown function	✓	-	-	-	✓	✓
Graphic temperature profile display	-	-	✓	-	✓	✓
Adjustable bypass	-	-	-	-	-	✓
Level indicator (digital)	-	-	-	✓	✓	✓
Standby timer	-	✓	✓	✓	✓	✓
Low-level alarm	✓	✓	✓	✓	✓	✓
Drain tap	-	✓	✓	✓	✓	✓
Drain screw	✓	-	-	-	-	-

LAUDA Cooling thermostats

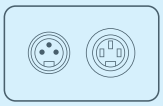
Interfaces

	Pt 100 (1)	Pt 100 (2)	USB	Ethernet	RS 232 / 485	Analog	Namur contact	D-SUB contact	PROFIBUS	EtherCAT M8	EtherCAT RJ 45	Number of module slots, large	Number of module slots, small
LAUDA Alpha / Page 60	-	-	-	-	-	-	-	-	-	-	-	-	-
LAUDA ECO / Page 62	Z	-	S	Z	Z	Z	Z	Z	Z	Z	Z	1	1
LAUDA PRO / Page 64	S	-	S	S	Z	Z	Z	Z	Z	Z	Z	1	-
LAUDA Proline Kryomat / Page 66	S	-	-	Z	S	Z	Z	Z	Z	Z	Z	2	-

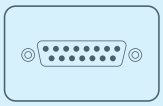
S = Series standard
Z = Available as an accessory

LRZ 912
Analog module

LRZ 913
RS 232/485
interface

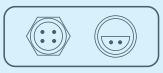


LRZ 914
Contact module with single input and single output (NAMUR)



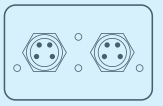
LRZ 915
Contact module with
3 inputs and 3 outputs

LRZ 917
Profibus module

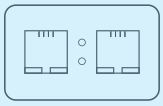


LRZ 918
Pt100/Li bus module,
small cover

LRZ 921
Ethernet module



LRZ 922
EtherCAT module
with M8 connection



LRZ 923
EtherCAT module
with RJ45 connection

LRZ 925
External Pt100/LiBus-
module, large cover

LAUDA Cooling thermostats

Power supply variants

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Device type	Power supply V; Hz	Heater power max. kW	Loading max. kW	Plug code*	Part Number	Device type	Power supply V; Hz	Heater power max. kW	Loading max. kW	Plug code*	Part Number
RP 2040	100 V; 50/60 Hz	1.3	1.6	32	L000538	RP 2045 C	200 V; 50/60 Hz	2.7	3.2	2	L000475
RP 2040	100 V; 50/60 Hz	1.3	1.5	14	L000530	RP 2045 C	200 V; 50/60 Hz	2.7	3.2	3	L000491
RP 2040	120 V; 60 Hz	1.9	1.9	32	L000458	RP 2045 C	200 V; 50/60 Hz	2.7	3.2	32	L000523
RP 2040	120 V; 60 Hz	1.9	1.9	4	L000450	RP 2045 C	200 V; 50/60 Hz	2.7	3.2	31	L000507
RP 2040	200 V; 50/60 Hz	2.7	3.2	31	L000498	RP 2045 C	208-220 V; 60 Hz	3.3	3.5	2	L000573
RP 2040	200 V; 50/60 Hz	2.7	3.2	32	L000514	RP 2045 C	208-220 V; 60 Hz	3.3	3.5	31	L000427
RP 2040	200 V; 50/60 Hz	2.7	3.2	3	L000482	RP 2045 C	208-220 V; 60 Hz	3.3	3.5	3	L000315
RP 2040	200 V; 50/60 Hz	2.7	3.2	2	L000466	RP 2045 C	208-220 V; 60 Hz	3.3	3.5	32	L000443
RP 2040	208-220 V; 60 Hz	3.3	3.5	32	L000434	RP 3035	100 V; 50/60 Hz	1.3	1.6	32	L000539
RP 2040	208-220 V; 60 Hz	3.3	3.5	2	L000564	RP 3035	100 V; 50/60 Hz	1.3	1.5	14	L000531
RP 2040	208-220 V; 60 Hz	3.3	3.5	31	L000418	RP 3035	120 V; 60 Hz	1.9	1.9	32	L000459
RP 2040	208-220 V; 60 Hz	3.3	3.5	3	L000306	RP 3035	120 V; 60 Hz	1.9	1.9	4	L000451
RP 2040 C	100 V; 50/60 Hz	1.3	1.5	14	L000534	RP 3035	200 V; 50/60 Hz	2.7	3.2	31	L000500
RP 2040 C	100 V; 50/60 Hz	1.3	1.6	32	L000542	RP 3035	200 V; 50/60 Hz	2.7	3.2	32	L000516
RP 2040 C	120 V; 60 Hz	1.9	1.9	32	L000462	RP 3035	200 V; 50/60 Hz	2.7	3.2	2	L000468
RP 2040 C	120 V; 60 Hz	1.9	1.9	4	L000454	RP 3035	200 V; 50/60 Hz	2.7	3.2	3	L000484
RP 2040 C	200 V; 50/60 Hz	2.7	3.2	3	L000490	RP 3035	208-220 V; 60 Hz	3.3	3.5	31	L000420
RP 2040 C	200 V; 50/60 Hz	2.7	3.2	31	L000506	RP 3035	208-220 V; 60 Hz	3.3	3.5	3	L000308
RP 2040 C	200 V; 50/60 Hz	2.7	3.2	32	L000522	RP 3035	208-220 V; 60 Hz	3.3	3.5	2	L000566
RP 2040 C	200 V; 50/60 Hz	2.7	3.2	2	L000474	RP 3035	208-220 V; 60 Hz	3.3	3.5	32	L000436
RP 2040 C	208-220 V; 60 Hz	3.3	3.5	3	L000314	RP 3035 C	100 V; 50/60 Hz	1.3	1.5	14	L000535
RP 2040 C	208-220 V; 60 Hz	3.3	3.5	32	L000442	RP 3035 C	100 V; 50/60 Hz	1.3	1.6	32	L000543
RP 2040 C	208-220 V; 60 Hz	3.3	3.5	31	L000426	RP 3035 C	120 V; 60 Hz	1.9	1.9	4	L000455
RP 2040 C	208-220 V; 60 Hz	3.3	3.5	2	L000572	RP 3035 C	120 V; 60 Hz	1.9	1.9	32	L000463
RP 2045	200 V; 50/60 Hz	2.7	3.2	31	L000499	RP 3035 C	200 V; 50/60 Hz	2.7	3.2	2	L000476
RP 2045	200 V; 50/60 Hz	2.7	3.2	3	L000483	RP 3035 C	200 V; 50/60 Hz	2.7	3.2	32	L000524
RP 2045	200 V; 50/60 Hz	2.7	3.2	2	L000467	RP 3035 C	200 V; 50/60 Hz	2.7	3.2	31	L000508
RP 2045	200 V; 50/60 Hz	2.7	3.2	32	L000515	RP 3035 C	200 V; 50/60 Hz	2.7	3.2	3	L000492
RP 2045	208-220 V; 60 Hz	3.3	3.5	2	L000565	RP 3035 C	208-220 V; 60 Hz	3.3	3.5	31	L000428
RP 2045	208-220 V; 60 Hz	3.3	3.5	31	L000419	RP 3035 C	208-220 V; 60 Hz	3.3	3.5	3	L000316
RP 2045	208-220 V; 60 Hz	3.3	3.5	32	L000435	RP 3035 C	208-220 V; 60 Hz	3.3	3.5	2	L000574
RP 2045	208-220 V; 60 Hz	3.3	3.5	3	L000307	RP 3035 C	208-220 V; 60 Hz	3.3	3.5	32	L000444

Device type	Power supply V; Hz	Heater power max. kW	Loading max. kW	Plug code*	Part Number	Device type	Power supply V; Hz	Heater power max. kW	Loading max. kW	Plug code*	Part Number
LAUDA PRO / Page 64											
RP 1090	200 V; 50/60 Hz	2.7	3.2	3	L000485	RP 2090 C	200 V; 50/60 Hz	2.7	3.2	2	L000478
RP 1090	200 V; 50/60 Hz	2.7	3.2	32	L000517	RP 2090 C	200 V; 50/60 Hz	2.7	3.2	3	L000494
RP 1090	200 V; 50/60 Hz	2.7	3.2	2	L000469	RP 2090 C	200 V; 50/60 Hz	2.7	3.2	32	L000526
RP 1090	200 V; 50/60 Hz	2.7	3.2	31	L000501	RP 2090 C	200 V; 50/60 Hz	2.7	3.2	31	L000510
RP 1090	208-220 V; 60 Hz	3.3	3.5	32	L000437	RP 2090 C	208-220 V; 60 Hz	3.3	3.5	3	L000318
RP 1090	208-220 V; 60 Hz	3.3	3.5	3	L000309	RP 2090 C	208-220 V; 60 Hz	3.3	3.5	32	L000446
RP 1090	208-220 V; 60 Hz	3.3	3.5	2	L000567	RP 2090 C	208-220 V; 60 Hz	3.3	3.5	31	L000430
RP 1090	208-220 V; 60 Hz	3.3	3.5	31	L000421	RP 2090 C	208-220 V; 60 Hz	3.3	3.5	2	L000576
RP 1090 C	200 V; 50/60 Hz	2.7	3.2	32	L000525	RP 10100	200 V; 50/60 Hz	2.7	3.2	32	L000519
RP 1090 C	200 V; 50/60 Hz	2.7	3.2	2	L000477	RP 10100	200 V; 50/60 Hz	2.7	3.2	31	L000503
RP 1090 C	200 V; 50/60 Hz	2.7	3.2	31	L000509	RP 10100	200 V; 50/60 Hz	2.7	3.2	2	L000471
RP 1090 C	200 V; 50/60 Hz	2.7	3.2	3	L000493	RP 10100	200 V; 50/60 Hz	2.7	3.2	3	L000487
RP 1090 C	208-220 V; 60 Hz	3.3	3.5	31	L000429	RP 10100	208-220 V; 60 Hz	3.3	3.5	32	L000439
RP 1090 C	208-220 V; 60 Hz	3.3	3.5	2	L000575	RP 10100	208-220 V; 60 Hz	3.3	3.5	31	L000423
RP 1090 C	208-220 V; 60 Hz	3.3	3.5	32	L000445	RP 10100	208-220 V; 60 Hz	3.3	3.5	2	L000569
RP 1090 C	208-220 V; 60 Hz	3.3	3.5	3	L000317	RP 10100	208-220 V; 60 Hz	3.3	3.5	3	L000311
RP 2090	200 V; 50/60 Hz	2.7	3.2	2	L000470	RP 10100 C	200 V; 50/60 Hz	2.7	3.2	32	L000527
RP 2090	200 V; 50/60 Hz	2.7	3.2	32	L000518	RP 10100 C	200 V; 50/60 Hz	2.7	3.2	31	L000511
RP 2090	200 V; 50/60 Hz	2.7	3.2	31	L000502	RP 10100 C	200 V; 50/60 Hz	2.7	3.2	3	L000495
RP 2090	200 V; 50/60 Hz	2.7	3.2	3	L000486	RP 10100 C	200 V; 50/60 Hz	2.7	3.2	2	L000479
RP 2090	208-220 V; 60 Hz	3.3	3.5	32	L000438	RP 10100 C	208-220 V; 60 Hz	3.3	3.5	3	L000319
RP 2090	208-220 V; 60 Hz	3.3	3.5	2	L000568	RP 10100 C	208-220 V; 60 Hz	3.3	3.5	31	L000431
RP 2090	208-220 V; 60 Hz	3.3	3.5	3	L000310	RP 10100 C	208-220 V; 60 Hz	3.3	3.5	32	L000447
RP 2090	208-220 V; 60 Hz	3.3	3.5	31	L000422	RP 10100 C	208-220 V; 60 Hz	3.3	3.5	2	L000577
LAUDA Proline Kryomats / Page 66											
RP 4050 C	200 V; 3/PE; 50/60 Hz	2.8	5.0	31	L001701	RP 3090 CW	200 V; 3/PE; 50/60 Hz	2.8	7.0	31	L001706
RP 4050 C	208 V; 3/PE; 60 Hz	3.0	5.0	31	L001677	RP 3090 CW	208 V; 3/PE; 60 Hz	3.0	7.0	31	L001682
RP 4050 CW	200 V; 3/PE; 50/60 Hz	2.8	5.0	31	L001705	RP 4090 C	200 V; 3/PE; 50/60 Hz	2.8	7.0	31	L001703
RP 4050 CW	208 V; 3/PE; 60 Hz	3.0	5.0	31	L001681	RP 4090 C	208 V; 3/PE; 60 Hz	3.0	7.0	31	L001679
RP 3090 C	200 V; 3/PE; 50/60 Hz	2.8	7.0	31	L001702	RP 4090 CW	200 V; 3/PE; 50/60 Hz	2.8	7.0	31	L001707
RP 3090 C	208 V; 3/PE; 60 Hz	3.0	7.0	31	L001678	RP 4090 CW	208 V; 3/PE; 60 Hz	3.0	7.0	31	L001683

* All data for the plug codes can be found on page 162 All device types with mark › W ‹ are water-cooled

LAUDA Accessories

Individual solutions, down to the finest detail

Tailored to your requirements

It makes no difference whether it concerns an optimized sample holder, improved handling or storage, mechanical accessories facilitate the daily temperature control, shaking or cultivating work. A wide variety of hose material in various cross-sections, optimized for the temperature range or also insulated as needed is the basis for the hydraulic connection of constant temperature equipment to applications. Adapters, distributors and taps provide flexibility. Remote controls, interfaces and through-flow control systems individually extend the connectivity, the range of functions and the operating convenience.

Electrical and electronic accessories:

- Flow controllers
- Flow control instruments
- Remote controls
- Solenoid valves
- Interface modules
- Temperature sensors
- Connecting cables and sockets

Hose material:

- Hose sets
- Polymer hoses
- Corrugated metal hoses
- Insulating hoses

Hydraulic components:

- Shut-off valves
- Adapters and fittings
- Cooling coils and heat exchangers
- Filter systems
- Distributors

Mechanical accessories:

- Bath covers
- Bath vessels
- Fastening components and mounts
- Boxes and baskets
- Racks
- Rising platforms
- Platforms
- Trays

Consumables:

- Filter cartridges

Documentation:

- Certificates

Request the comprehensive LAUDA accessories brochure at **info@lauda.de**

More at **www.lauda.de/1784**

LAUDA Heat transfer liquids

For safe and reliable operation of your thermostats

Highly accurate temperature control at extreme temperatures, reliability and long-term operational stability for a long service life of the thermostats.
The right choice of heat transfer liquid is of critical importance for the safe and reliable operation of thermostats, circulation chillers or water baths. Thanks to our many decades of experience, we are able to offer optimum heat transfer liquids for LAUDA thermostats and other brands. Prices of heat transfer liquids can be found in our price list, which we will gladly send you on request.

Designation	Open / half-open systems °C −100 °C −50 °C 0 °C 100 °C 200 °C 300 °C	Closed systems with cold oil overlay (Integral XT) °C −100 °C −50 °C 0 °C 100 °C 200 °C 300 °C	Part Number 5 L / 10 L / 20 L
Aqua 90	5 °C – 90 °C		LZB 120 / LZB 220 / LZB 320
Kryo 95 Silicone oil	−95 °C – 60 °C	−95 °C – 160 °C	LZB 130 / LZB 230 / LZB 330
Kryo 70 Silicone oil		−70 °C – 220 °C	LZB 127 / LZB 227 / LZB 327
Kryo 65		−65 °C – 140 °C	LZB 118 / LZB 218 / LZB 318
Kryo 60 Silicone oil	−60 °C – 60 °C		LZB 102 / LZB 202 / LZB 302
Kryo 51 Silicone oil	−50 °C – 120 °C		LZB 121 / LZB 221 / LZB 321
Kryo 30	−30 °C – 90 °C	−30 °C – 90 °C	LZB 109 / LZB 209 / LZB 309
Kryo 20 Silicone oil	−20 °C – 170 °C		LZB 116 / LZB 216 / LZB 316
Therm 160	60 °C – 160 °C		LZB 106 / LZB 206 / LZB 306
Therm 180 Silicone oil	0 °C – 180 °C		LZB 114 / LZB 214 / LZB 314
Therm 250 Silicone oil	50 °C – 250 °C		LZB 122 / LZB 222 / LZB 322
Ultra 350	30 °C – 200 °C	30 °C – 350 °C	LZB 107 / - / -

Note: LAUDA Integral P may only be operated with non-combustible media (Kryo 30).
The temperature range of Kryo 30 is extended from −40 to 140 °C here.

Request the comprehensive LAUDA heat transfer liquid brochure at **info@lauda.de**

More at **www.lauda.de/1782**