

LAUDA CIRCULATION AND PROCESS THERMOSTATS

°LAUDA

Specific application examples

- Refractometer
- Polarimeter
- Single-use bioreactors
- Extruder for food production
- Micro reactors
- Responsive control in chemical/pharmaceutical surroundings
- Climate chambers
- Space simulation
- Electric mobility; battery testing
- Test rigs
- Stress test
- Crystallization regulation
- Freeze-drying
- Micro structures
- Coating plants



LAUDA PRO

Compact circulation thermostats for professional temperature control from -90 to 250 °C

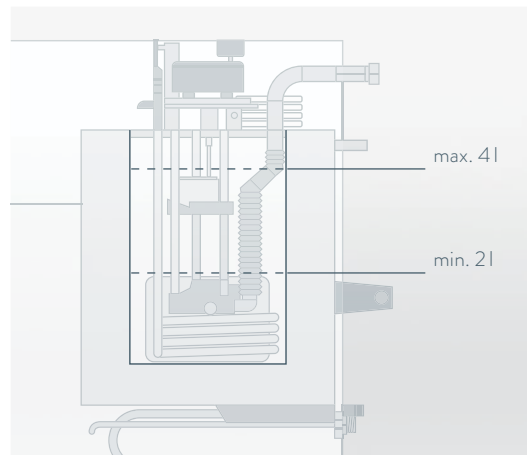


Flexible operation, outstanding performance characteristics

LAUDA PRO is the cutting-edge product line with an outstanding overall concept: The circulation thermostats with small, active volumes of liquid enable rapid temperature changes in external applications. The innovative Base or Command Touch operating units can be detached and used as a remote control. The cooling thermostats come equipped with hybrid cooling as standard, which allows for additional cooling of the refrigerating machine with water.



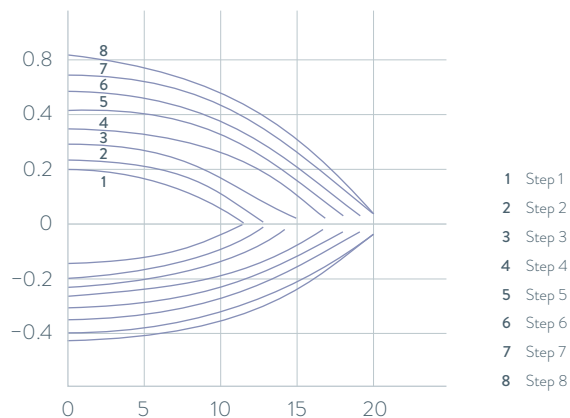
Many basic functions with the economic Base variant



The small filling volume and powerful vario flex pump offer fast temperature changes with low operating costs and material consumption

PUMP CHARACTERISTICS Water

Pressure bar



Suction

Pump flow L/min

Important functions

- Tower design for small footprint
- LAUDA Vario Flex Pump with 8 available output levels, pump connections at rear
- SmartCool system for digital, energy-saving cooling control including automatic compressor control

Included accessories

Tubing nipples for pumps and cooling water connection

Further accessories

Tubing, interface modules

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

More at www.lauda.de/1750



LAUDA PRO

The PRO heating circulation thermostats are designed for external applications up to 250 °C. The compact construction permits space-saving installation of the thermostats. An integrated cooling coil, fitted as standard, provides cooling. 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 or 1.5 kW, combined with a very low filling volume permit these rapid temperature changes.

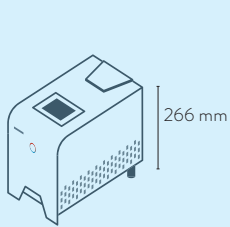


LAUDA Circulation and process thermostats

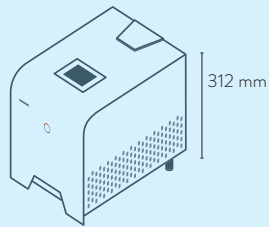
Device type overview

LAUDA LOOP / Page 84

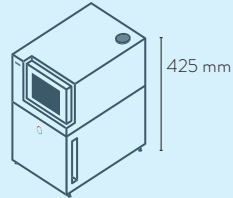
LAUDA PRO / Page 86



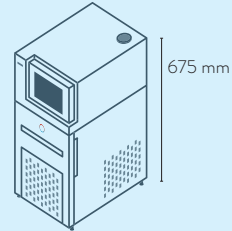
LOOP 100



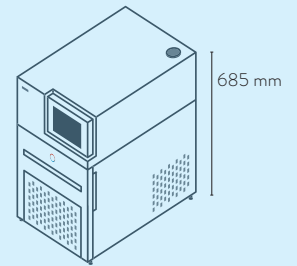
LOOP 250



P 2 E

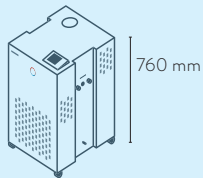


RP 240 EC
RP 245 EC
RP 250 EC

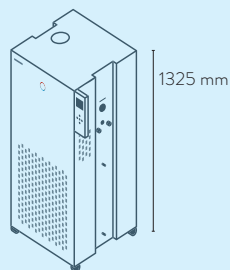


RP 290 EC

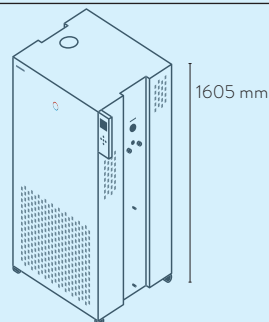
LAUDA Integral T / Page 88



IN 130 T
IN 230 T
IN 230 TW



IN 530 T
IN 530 TW

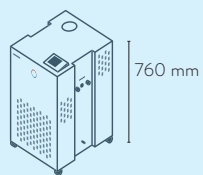


IN 1030 T

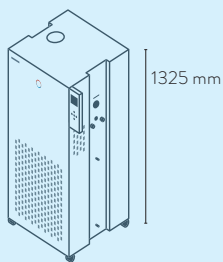


IN 1330 TW
IN 1830 TW

LAUDA Integral XT / Page 90



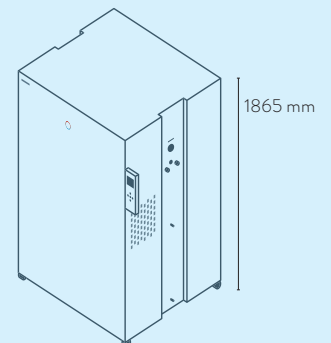
IN 150 XT
IN 250 XTW
IN 4 XTW / IN 8 XTW



IN 550 XT / IN 550 XTW
IN 280 XT / IN 280 XTW
IN 750 XT / IN 950 XTW

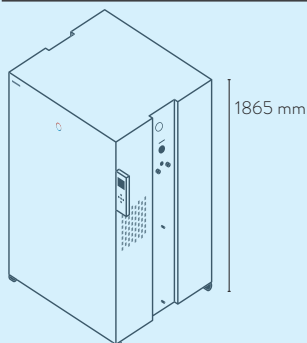


IN 1850 XTW
IN 590 XTW
IN 1590 XTW



IN 2560 XTW

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IN 2050 PW
IN 2560 PW

LAUDA Circulation and process thermostats

Function overview

Operating element	Circulation thermostats		Process thermostats		Calibration thermostats		Deep-freezers	
	LOOP	PROE	PROEC	Integral T	Integral XT	Integral P	Integral P	Variocool
Display	OLED	OLED	TFT	TFT	TFT	TFT	TFT	TFT
Mode of operation	3-button softkey	Cursor softkey	Multi-touch	Cursor softkey	Cursor softkey	Cursor softkey	Cursor softkey	Cursor softkey
Removable control	-	✓	✓	Z	Z	Z	-	-
User management	-	-	✓	Operator / Viewer	Operator / Viewer	Operator / Viewer	-	-
Data logging, export to USB stick	-	-	✓	✓	✓	✓	-	-
1-point calibration	✓	✓	✓	✓	✓	✓	✓	✓
2-point calibration	✓	✓	✓	✓	✓	✓	-	-
Self-adaptation controller	-	-	✓	✓	✓	✓	-	-
Safety mode	-	✓	✓	✓	✓	✓	-	-
Programmer, programs/segments	-	1 / 20	100 / 5000	5 / 146	5 / 146	5 / 146	5 / 146	5 / 146
Programmer, tolerance range function	-	✓	✓	✓	✓	✓	✓	✓
Ramp function	-	-	✓	Z	Z	Z	-	-
Timer function	-	-	✓	✓	✓	✓	-	-
Countdown function	-	-	✓	-	-	-	-	-
Graphic temperature profile display	-	-	✓	✓	✓	✓	✓	✓
Pump pressure display (digital)	-	-	-	✓	✓	✓	-	-
Adjustable bypass	-	-	-	✓	✓	✓	✓	✓
Level indicator (digital)	-	✓	✓	✓	✓	✓	✓	✓
Standby timer	✓	✓	✓	✓	✓	✓	✓	✓
Flow control instrument	-	-	-	-	-	-	Z	-
Flow pressure control	-	-	-	-	✓	✓	-	-
Flow measurement + control	-	-	-	-	Z	Z	-	-
Overflow	-	✓	✓	✓	✓	✓	-	-
Low-level alarm	✓	✓	✓	✓	✓	✓	✓	✓
Drain tap	-	✓	✓	✓	✓	✓	✓	✓

Z = Available as an accessory

LAUDA Circulation and process thermostats

Technical data according to DIN 12876 standard

Device type	Working temperature range °C	Temperature stability ±K	Cooling of the refrigerating machine	Heater power max. kW	Cooling output kW													
					200 °C	100 °C	20 °C	10 °C	0 °C	-10 °C	-20 °C	-30 °C	-40 °C	-50 °C	-60 °C	-70 °C	-80 °C	-90 °C

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LOOP 100	4 ... 80	0.10	Air	0.2	-	-	0.12	0.06	-	-	-	-	-	-	-	-	-	-
LOOP 250	4 ... 80	0.10	Air	0.4	-	-	0.25	0.13	-	-	-	-	-	-	-	-	-	-

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P 2 E	80 ... 250	0.05	Water	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P 2 EC	80 ... 250	0.05	Water	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RP 240 E	-40 ... 200	0.05	Hybrid	2.5	-	-	0.60 ³	0.60 ³	0.60 ³	0.41 ³	0.24 ²	0.12 ²	0.02 ¹	-	-	-	-	-
RP 240 EC	-40 ... 200	0.05	Hybrid	2.5	-	-	0.60 ³	0.60 ³	0.60 ³	0.41 ³	0.24 ²	0.12 ²	0.02 ¹	-	-	-	-	-
RP 245 E	-45 ... 200	0.05	Hybrid	2.5	-	-	0.80 ³	0.80 ³	0.80 ³	0.53 ³	0.34 ²	0.15 ²	0.04 ²	-	-	-	-	-
RP 245 EC	-45 ... 200	0.05	Hybrid	2.5	-	-	0.80 ³	0.80 ³	0.80 ³	0.53 ³	0.34 ²	0.15 ²	0.04 ²	-	-	-	-	-
RP 250 E	-50 ... 200	0.05	Hybrid	2.5	-	-	1.50 ³	1.44 ³	1.20 ³	0.84 ³	0.54 ²	0.29 ²	0.11 ²	0.02 ¹	-	-	-	-
RP 250 EC	-50 ... 200	0.05	Hybrid	2.5	-	-	1.50 ³	1.44 ³	1.20 ³	0.84 ³	0.54 ²	0.29 ²	0.11 ²	0.02 ¹	-	-	-	-
RP 290 E	-90 ... 200	0.05	Hybrid	2.5	-	-	0.80 ³	0.77 ³	0.74 ³	0.72 ³	0.70 ²	0.68 ²	0.64 ²	0.56 ²	0.39 ²	0.21 ²	0.09 ²	0.01 ¹
RP 290 EC	-90 ... 200	0.05	Hybrid	2.5	-	-	0.80 ³	0.77 ³	0.74 ³	0.72 ³	0.70 ²	0.68 ²	0.64 ²	0.56 ²	0.39 ²	0.21 ²	0.09 ²	0.01 ¹

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IN 130 T	-30 ... 120	0.05	Air	2.7	-	1.40	1.40	1.35	1.20	0.80	0.40	0.10	-	-	-	-	-	-
IN 230 T	-30 ... 120	0.05	Air	2.7	-	2.20	2.20	1.90	1.50	1.00	0.60	0.15	-	-	-	-	-	-
IN 230 TW	-30 ... 120	0.05	Water	2.7	-	2.30	2.30	2.30	1.90	1.30	0.75	0.35	-	-	-	-	-	-
IN 530 T	-30 ... 120	0.05	Air	8.0	-	5.00	5.00	4.50	3.80	2.60	1.50	0.60	-	-	-	-	-	-
IN 530 TW	-30 ... 120	0.05	Water	8.0	-	6.00	6.00	5.50	4.50	3.00	1.60	0.70	-	-	-	-	-	-
IN 1030 T	-30 ... 150	0.10	Air	8.0	-	11.00	11.00	9.50	7.10	4.90	3.00	1.60	-	-	-	-	-	-
IN 1330 TW	-30 ... 150	0.10	Water	16.0	-	13.00	13.00	10.00	7.60	5.40	3.40	1.70	-	-	-	-	-	-
IN 1830 TW	-30 ... 150	0.10	Water	16.0	-	19.00	19.00	15.00	11.50	7.50	5.00	2.70	-	-	-	-	-	-

¹Pump output step 2 ²Pump output step 4 ³Pump output step 8

Pump pressure max. bar	Pump flow max. pressure L/min	Pump connection thread mm	Bath volume min. L	Bath volume max. L	Dimensions (W x D x H) mm	Protection Rating	Noise level dB(A)	Weight kg	Loading max. kW	Power supply V; Hz	Part Number	Device type
0.8	2.6	Quick C. 1/4"	0.26	0.28	175×301×266	IP 21	57	7	0.2	100-240 V; 50/60 Hz	L000027	LOOP 100
0.8	2.6	Quick C. 1/4"	0.30	0.32	261×368×312	IP 21	57	12	0.4	100-240 V; 50/60 Hz	L000580	LOOP 250
0.68	22	M16×1	2.4	4.4	250×365×425	IP 21	47	16.5	2.7	200-230 V; 50/60 Hz	L000019	P 2 E
0.68	22	M16×1	2.4	4.4	250×365×425	IP 21	47	17.0	2.7	200-230 V; 50/60 Hz	L000020	P 2 EC
0.68	22	M16×1	2.4	4.4	300×430×675	IP 21	54	41.5	3.7	230 V; 50 Hz	L000021	RP 240 E
0.68	22	M16×1	2.4	4.4	300×430×675	IP 21	54	41.5	3.7	230 V; 50 Hz	L000023	RP 240 EC
0.68	22	M16×1	2.4	4.4	300×430×675	IP 21	54	38.5	3.7	230 V; 50 Hz	L000022	RP 245 E
0.68	22	M16×1	2.4	4.4	300×430×675	IP 21	54	40.0	3.7	230 V; 50 Hz	L000024	RP 245 EC
0.68	22	M16×1	2.4	4.4	300×430×675	IP 21	57	46.5	3.7	230 V; 50 Hz	L002494	RP 250 E
0.68	22	M16×1	2.4	4.4	300×430×675	IP 21	57	47.5	3.7	230 V; 50 Hz	L002495	RP 250 EC
0.68	22	M16×1	2.4	4.4	390×600×685	IP 21	56	76.5	3.7	230 V; 50 Hz	L002502	RP 290 E
0.68	22	M16×1	2.4	4.4	390×600×685	IP 21	56	78.5	3.7	230 V; 50 Hz	L002503	RP 290 EC
3.5	40	G 3/4	3.6	8.7	430×550×760	IP 21	61	79	3.7	230 V; 50 Hz	L002663	IN 130 T
3.5	40	G 3/4	3.6	8.7	430×550×760	IP 21	63	84	3.7	230 V; 50 Hz	L002664	IN 230 T
3.5	40	G 3/4	3.6	8.7	430×550×760	IP 21	60	85	3.7	230 V; 50 Hz	L002665	IN 230 TW
3.5	40	G 3/4	7.2	20.5	560×550×1325	IP 21	66	149	11.0	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	L002666	IN 530 T
3.5	40	G 3/4	7.2	20.5	560×550×1325	IP 21	62	150	11.0	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	L002667	IN 530 TW
5.5	60	M38×1.5	9.7	25.5	760×650×1605	IP 21	70	223	11.0	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	L002668	IN 1030 T
5.5	60	M38×1.5	9.7	25.5	760×650×1605	IP 21	62	225	18.0	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	L002669	IN 1330 TW
5.5	60	M38×1.5	9.7	25.5	760×650×1605	IP 21	67	244	18.0	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	L002670	IN 1830 TW

LAUDA Circulation and process 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	Malfunction contact	Number of module slots, large	Number of module slots, small	RS232/485 module Advanced	Contact module NAMUR Advanced	Contact module D-SUB Advanced	Profibus module Advanced	Ethernet module Advanced	Profinet module Advanced	CAN module Advanced
LAUDA LOOP / Page 84	-	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAUDA PRO / Page 86	S	-	S	S	Z	Z	Z	Z	Z	Z	Z	-	1	-	Z	Z	Z	Z	-	Z	Z
LAUDA Integral T / Page 88	S	Z	S	S	Z	Z	Z	Z	Z	Z	Z	S	2	-	Z	Z	Z	Z	S	Z	Z
LAUDA Integral XT / Page 90	S	Z	S	S	Z	Z	Z	Z	Z	Z	Z	S	2	-	Z	Z	Z	Z	S	Z	Z
LAUDA Integral P / Page 92	S	Z	S	S	Z	Z	Z	Z	Z	Z	Z	S	2	-	Z	Z	Z	Z	S	Z	Z
LAUDA Variocool / Page 94	Z	-	S	Z	Z	Z	Z	Z	Z	Z	Z	S	1	1	Z	Z	Z	Z	Z	Z	Z

S = Series standard

Z = Available as an accessory

LAUDA interfaces



LRZ 912
Analog module



LRZ 913
RS 232/485 interface



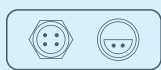
LRZ 914
Contact module, 1 input, 1 output (NAMUR)



LRZ 915
Contact module, 3 inputs, 3 outputs



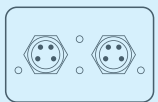
LRZ 917
Profibus module



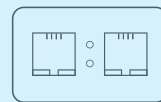
LRZ 918
Pt100/LiBus-Modul, small cover



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 interfaces Advanced* (Modules available as accessories from Q3 / 2022)



LRZ 926
RS232/485 module Advanced, D-SUB 9-pin



LRZ 927
Contact module NAMUR Advanced, 1 input, 1 output



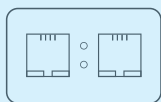
LRZ 928
Contact module D-SUB Advanced, 3 inputs, 3 outputs



LRZ 929
Profibus module Advanced, D-SUB 9-pin



LRZ 930
Ethernet module Advanced, RJ45



LRZ 932
Profinet module Advanced, RJ45



LRZ 933
CAN module Advanced, D-SUB 9-pin

* Interfaces of the Advanced generation replace modules in the process thermostats of the same name as per the above selection table

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						Closed systems with cold oil overlay (Integral XT) °C						Part Number 5L/10L/20L
	-100 °C	-50 °C	0 °C	100 °C	200 °C	300 °C	-100 °C	-50 °C	0 °C	100 °C	200 °C	300 °C	
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											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										LZB 116/LZB 216/LZB 316
Therm 160				60 °C									LZB 106/LZB 206/LZB 306
Therm 180 Silicone oil			0 °C										LZB 114/LZB 214/LZB 314
Therm 250 Silicone oil				50 °C									LZB 122/LZB 222/LZB 322
Ultra 350				30 °C					30 °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

LAUDA Circulation and process thermostats

Power supply variants

Device type	Power supply V; Hz	Heater power max. kW	Pump pressure max. 60 Hz bar	Pump flow max. pressure 60 Hz L/min	Loading max. kW	Plug code*	Part Number	Device type	Power supply V; Hz	Heater power max. kW	Pump pressure max. 60 Hz bar	Pump flow max. pressure 60 Hz L/min	Loading max. kW	Plug code*	Part Number
P 2 E	100-120 V; 50/60 Hz	1.8	0.7	22.0	1.9	32	L000557	RP 245 E	120 V; 60 Hz	1.8	0.7	22.0	1.9	32	L000461
P 2 E	100-120 V; 50/60 Hz	1.8	0.7	22.0	1.9	4	L000549	RP 245 E	120 V; 60 Hz	1.8	0.7	22.0	1.9	4	L000453
P 2 EC	100-120 V; 50/60 Hz	1.8	0.7	22.0	1.9	32	L000561	RP 245 E	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	32	L000521
P 2 EC	100-120 V; 50/60 Hz	1.8	0.7	22.0	1.9	4	L000553	RP 245 E	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	31	L000505
RP 240 E	100 V; 50/60 Hz	1.3	0.7	22.0	1.6	32	L000540	RP 245 E	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	3	L000489
RP 240 E	100 V; 50/60 Hz	1.3	0.7	22.0	1.5	14	L000532	RP 245 E	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	31	L000425
RP 240 E	120 V; 60 Hz	1.8	0.7	22.0	1.9	32	L000460	RP 245 E	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	3	L000313
RP 240 E	120 V; 60 Hz	1.8	0.7	22.0	1.9	4	L000452	RP 245 E	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	32	L000441
RP 240 E	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	3	L000488	RP 245 EC	100 V; 50/60 Hz	1.3	0.7	22.0	1.6	32	L000545
RP 240 E	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	32	L000520	RP 245 EC	100 V; 50/60 Hz	1.3	0.7	22.0	1.5	14	L000537
RP 240 E	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	31	L000504	RP 245 EC	120 V; 60 Hz	1.8	0.7	22.0	1.9	4	L000457
RP 240 E	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	32	L000440	RP 245 EC	120 V; 60 Hz	1.8	0.7	22.0	1.9	32	L000465
RP 240 E	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	3	L000312	RP 245 EC	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	32	L000529
RP 240 E	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	31	L000424	RP 245 EC	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	31	L000513
RP 240 EC	100 V; 50/60 Hz	1.3	0.7	22.0	1.6	32	L000544	RP 245 EC	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	3	L000497
RP 240 EC	100 V; 50/60 Hz	1.3	0.7	22.0	1.5	14	L000536	RP 245 EC	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	3	L000321
RP 240 EC	120 V; 60 Hz	1.8	0.7	22.0	1.9	32	L000464	RP 245 EC	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	32	L000449
RP 240 EC	120 V; 60 Hz	1.8	0.7	22.0	1.9	4	L000456	RP 245 EC	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	31	L000433
RP 240 EC	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	31	L000512	RP 250 E	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	3	L002498
RP 240 EC	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	3	L000496	RP 250 EC	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	3	L002499
RP 240 EC	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	32	L000528	RP 250 E	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	3	L002657
RP 240 EC	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	32	L000448	RP 250 EC	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	3	L002658
RP 240 EC	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	3	L000320	RP 290 E	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	3	L002506
RP 240 EC	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	31	L000432	RP 290 EC	200 V; 50/60 Hz	1.9	0.7	22.0	3.2	3	L002507
RP 245 E	100 V; 50/60 Hz	1.3	0.7	22.0	1.6	32	L000541	RP 290 E	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	3	L002659
RP 245 E	100 V; 50/60 Hz	1.3	0.7	22.0	1.5	14	L000533	RP 290 EC	208-220 V; 60 Hz	2.3	0.7	22.0	3.5	3	L002660

*All data for the plug codes can be found on page 162

Power plugs

Overview

Image	Plug code	Description	Image	Plug code	Description	Image	Plug code	Description
	2	CEE7/7 angled (EU, Schuko)		3	NEMA 6-20P (USA)		4	NEMA 5-20P (USA)
	5	GB2099 (CN)		6	BS1363 angled (UK)		7	IEC 60309, (blue), ›Caravan
	8	SEV 1011, SEV 5934/2 (CH, T23)		9	AS/NSZ 3112 (AUS)		10	NBR 14136 (BR)
	14	NEMA 5-15P (USA)		17	CEE7/7 straight (EU, Schuko)		21	IEC 60309, 5-pin, CEE, red, 16 A
	22	IEC 60309, 5-pin, CEE, red, 32 A		23	IEC 60309, 5-pin, CEE, red, 63 A		25	NEMA 5-15P (Japan)
	26	SEV 1011, SEV 5934/2 (CH, T12)		31	Mains cable without plug (HAR), Harmonized cable (DIN VDE 0281/DIN VDE 0282/DIN VDE 0292)		32	Mains cable without plug (AWG), American Wire Gauge, abbreviation AWG
	33	NEMA L16-30P twist lock; 30 A 480 V; 30 A, 3L+N+PE		34	NEMA L16-20P twist lock; 20 A 480 V; 20 A, 3L+N+PE		35	AS/NSZ 3112, SAA/3 (AUS) Australia, 250 V; 10 A
	36	NEMA 6-15P (USA) USA, 250 V; 15 A		37	NBR 14136, BR/3 (BR) Brazil, 250 V; 10 A		38	NEMA L15-30P twist lock; 30 A USA, 250 V; 30 A, 3L+PE
	40	NEMA L15-20P twist lock; 20 A USA, 250 V; 20 A, 3L+PE		42	Two mains cables with socket 6 and 8		43	Two mains cables with socket 6 and 17

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



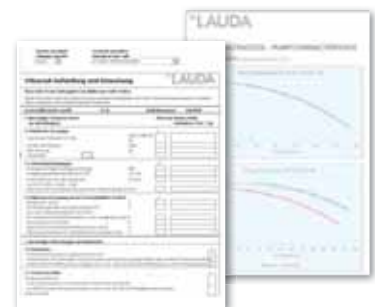
Consumables:

- Filter cartridges



Documentation:

- Certificates



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