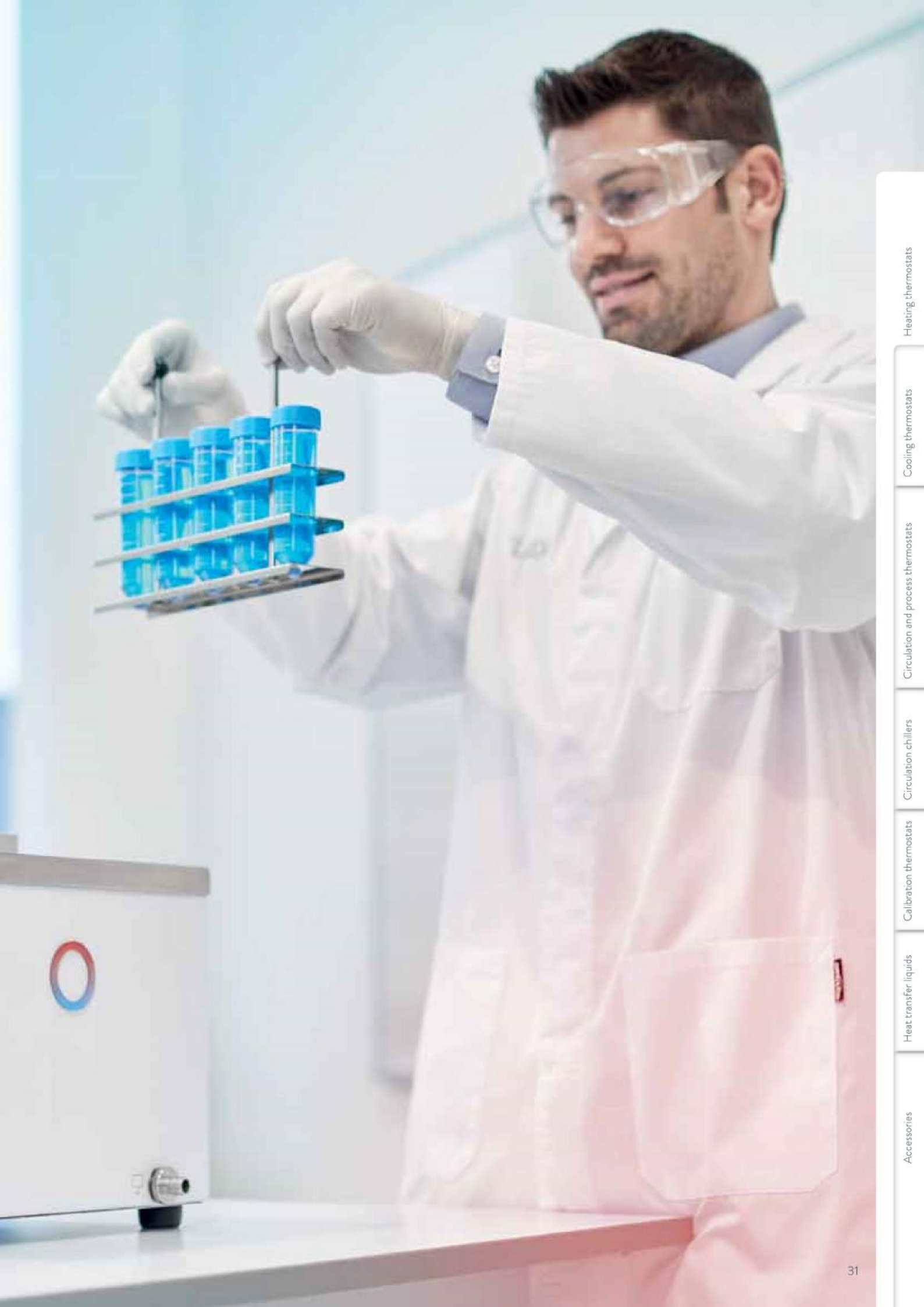


# LAUDA HEATING THERMOSTATS



## Specific application examples

- Sample preparation for chemical and pharmaceutical analysis
- Medical serology
- Biotechnology
- Material testing



# LAUDA Alpha

Heating thermostats from 25 to 100 °C for cost-effective temperature control thermostating in the lab



**Cost-effective thermostats with reliable technology incorporated into a modern design**  
LAUDA Alpha is the most cost-effective choice when it comes to premium-quality LAUDA thermostats. These reliable and user-friendly thermostats, with features optimized for essential use, can be operated with non-flammable liquids and are suitable for both internal and external temperature control tasks.



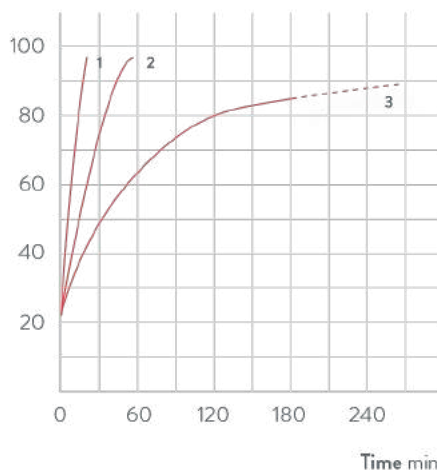
Simple and intuitive menu navigation with three-button operation using a large, clearly legible LED display



Screw clamp allows easy change to different bath vessels with a maximum wall thickness of 30 mm

## HEATING PERFORMANCE Water, bath closed

Bath temperature °C



1 A6  
2 A12  
3 A24

## Important functions

- Deep-drawn stainless steel bath vessels
- Integrated timer function allows automatic device shutdown
- Low-level and overtemperature protection for operation with non-flammable liquids

## Included accessories

Screw clamp, attachment nozzle in two sizes

## Further accessories

Pump circulation set, cooling coil, bath cover set

All technical data and power supply variants can be found in the »Technical data« section.

More at [www.lauda.de/1724](http://www.lauda.de/1724)



### LAUDA Alpha

Heating thermostats A 6, A12 and A24 work in the temperature range between 25 and 100 °C. Cooling coil, pump circulation set and bath cover set are available as accessories for all thermostats.

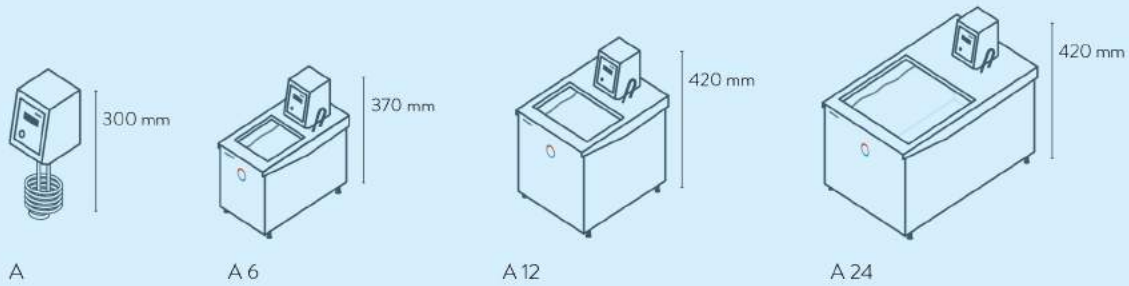




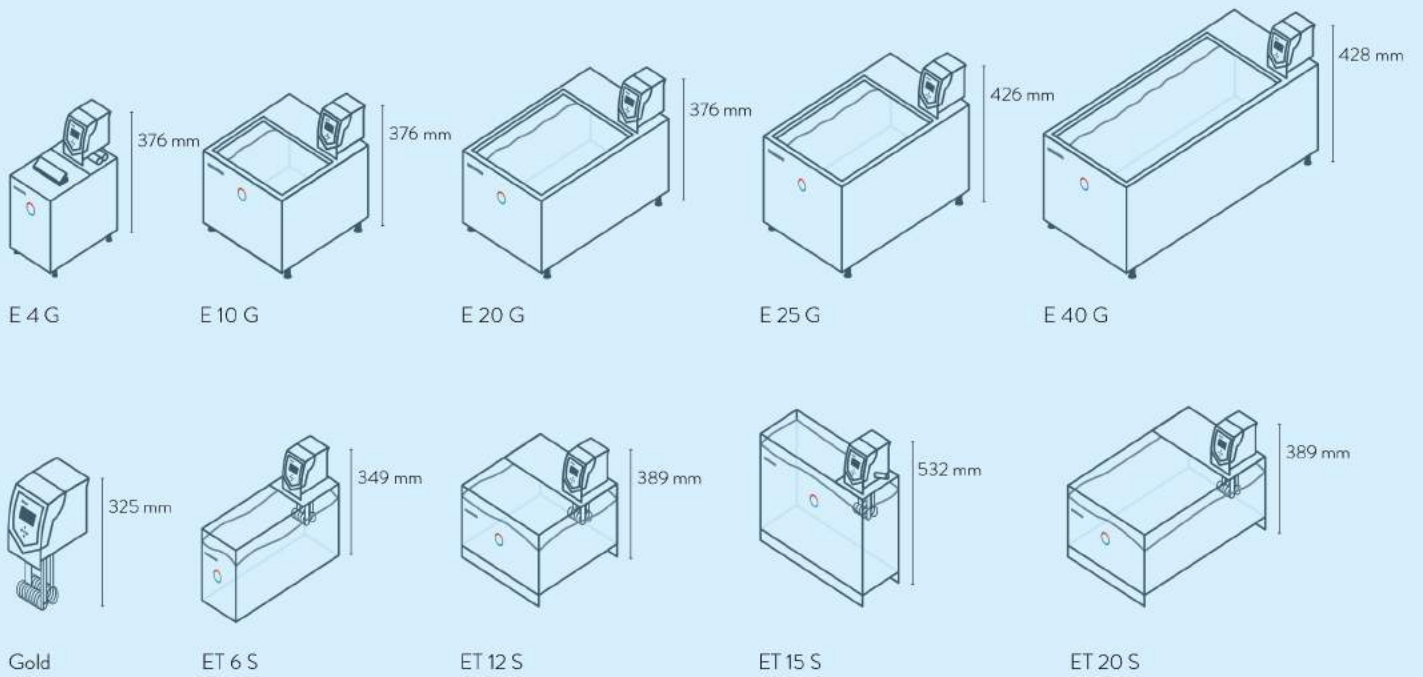
# LAUDA Heating thermostats

## Device type overview

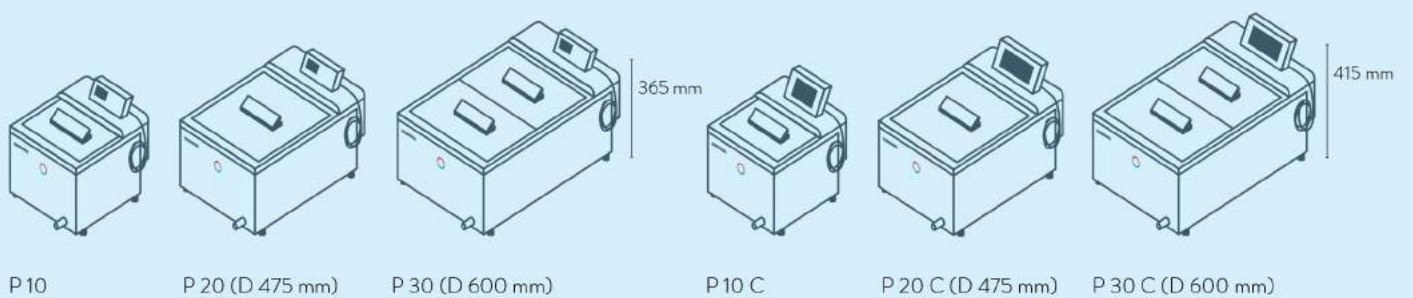
LAUDA Alpha / Page 32



LAUDA ECO / Page 34



LAUDA PRO / Page 36



# LAUDA Heating thermostats

## Interfaces

	Pt 100 (1)	Pt 100 (2)	USB	Ethernet	RS 232 / 485	Analog	Namur contact	Sub-D contact	Profibus	EtherCat M8	EtherCat RJ 45	Number of module slots, large	Number of module slots, small
<b>LAUDA Alpha</b> / Page 32	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>LAUDA ECO</b> / Page 34	Z	-	S	Z	Z	Z	Z	Z	Z	Z	Z	1	1
<b>LAUDA PRO</b> / Page 36	S	-	S	S	Z	Z	Z	Z	Z	Z	Z	1	-
<b>LAUDA Proline Master</b>	S	-	-	Z	Z	Z	Z	Z	Z	Z	Z	2	-
<b>LAUDA Proline Command</b>	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



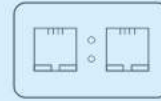
LRZ 918  
Pt100/Li bus module, small cover



LRZ 921  
Ethernet module



LRZ 922  
EtherCAT module with M8 connection

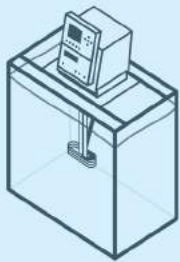


LRZ 923  
EtherCAT module with RJ45 connection

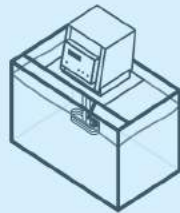


LRZ 925  
External Pt100/LiBus-module, large cover

### LAUDA Proline bridge thermostat / Page 38



PB C  
PBD C

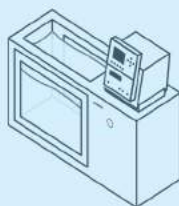


PB  
PBD

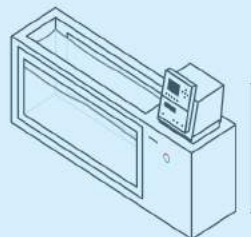
### LAUDA Proline clear-view thermostat / Page 40



PV 15 C  
PVL 15 C



PV 24 C  
PVL 24 C

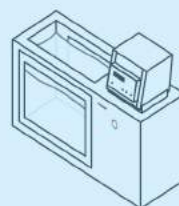


PV 36 C

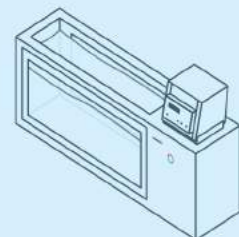
646 mm



PV 15  
PVL 15



PV 24  
PVL 24



PV 36

646 mm

# LAUDA Heating thermostats

## Function overview

Operating element	Alpha	ECO S	ECO G	PRO Base	PRO Command Touch	Proline Master	Proline Command
Display	7-Segment	LCD mono	TFT	OLED	TFT	7-Segment	LCD mono
Mode of operation	3-button	3-button softkey	Cursor softkey	Cursor softkey	Multi-touch	4-button	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 Heating thermostats

Technical data according to DIN 12876 standard

Device type	Working temperature range °C	Working temperature range with water cooling °C	Operating temperature range °C	Temperature stability ±K	Safety fittings	Heater power max. kW	Pump type	Pump pressure max. bar	Pump suction max. bar	Pump flow max. pressure L/min	Pump flow max. suction L/min	Pump connection thread mm	Nipples Øe	Bath volume min. L
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## LAUDA Alpha / Page 32

A	25 ... 100	20 ... 100	-25 ... 100	0.05	I, NFL	1.5	D	0.2	-	15.0	-	N/A	-	-
A 6	25 ... 100	20 ... 100	-25 ... 100	0.05	I, NFL	1.5	D	0.2	-	15.0	-	N/A	-	2.5
A 12	25 ... 100	20 ... 100	-25 ... 100	0.05	I, NFL	1.5	D	0.2	-	15.0	-	N/A	-	8.0
A 24	25 ... 100	20 ... 100	-25 ... 100	0.05	I, NFL	1.5	D	0.2	-	15.0	-	N/A	-	18.0

## LAUDA ECO / Page 34

SILVER	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	-	-
ET 6 S	20 ... 100	20 ... 100	-20 ... 100	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	-	5.0
ET 12 S	20 ... 100	20 ... 100	-20 ... 100	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	-	9.5
ET 15 S	20 ... 100	20 ... 100	-20 ... 100	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	13	13.5
ET 20 S	20 ... 100	20 ... 100	-20 ... 100	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	-	15.0
E 4 S	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	13	3.0
E 10 S	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	-	7.5
E 20 S	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	-	13.0
E 25 S	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	-	16.0
E 40 S	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.0	V	0.6	-	22.0	-	N/A	-	32.0
GOLD	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.6	V	0.6	-	22.0	-	N/A	-	-
ET 6 G	20 ... 100	20 ... 100	-20 ... 100	0.01	III, FL	2.6	V	0.6	-	22.0	-	N/A	-	5.0
ET 12 G	20 ... 100	20 ... 100	-20 ... 100	0.01	III, FL	2.6	V	0.6	-	22.0	-	N/A	-	9.5
ET 15 G	20 ... 100	20 ... 100	-20 ... 100	0.01	III, FL	2.6	V	0.6	-	22.0	-	M16×1	-	13.5
ET 20 G	20 ... 100	20 ... 100	-20 ... 100	0.01	III, FL	2.6	V	0.6	-	22.0	-	N/A	-	15.0
E 4 G	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.6	V	0.6	-	22.0	-	M16×1	-	3.0
E 10 G	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.6	V	0.6	-	22.0	-	N/A	-	7.5
E 20 G	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.6	V	0.6	-	22.0	-	N/A	-	13.0
E 25 G	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.6	V	0.6	-	22.0	-	N/A	-	16.0
E 40 G	20 ... 200	20 ... 200	-20 ... 200	0.01	III, FL	2.6	V	0.6	-	22.0	-	N/A	-	32.0



Bath volume max. L	Bath opening (W x D) mm	Bath depth mm	Usable depth mm	Height top of bath mm	Dimensions (W x D x H) mm	Weight kg	Power supply V; Hz	Loading max. kW	Cat. No.	Device type
50.0	-	150	100	-	125×150×300	3.5	230 V; 50/60 Hz	1.5	L000618	A
5.5	145×161	150	130	212	181×332×370	6.2	230 V; 50/60 Hz	1.5	L000619	A 6
12.0	235×161	200	180	262	270×332×420	7.5	230 V; 50/60 Hz	1.5	L000620	A 12
25.0	295×374	200	180	262	332×535×420	10.5	230 V; 50/60 Hz	1.5	L000621	A 24
-	-	150	-	-	130×135×325	3.0	230 V; 50/60 Hz	2.1	L001076	SILVER
6.0	130×285	160	140	169	143×433×349	4.1	230 V; 50/60 Hz	2.1	L001096	ET 6 S
12.0	300×175	160	140	208	322×331×389	6.4	230 V; 50/60 Hz	2.1	L001097	ET 12 S
15.0	275×130	310	290	356	428×148×532	6.4	230 V; 50/60 Hz	2.1	L001098	ET 15 S
20.0	300×350	160	140	208	322×506×389	7.6	230 V; 50/60 Hz	2.1	L001099	ET 20 S
3.5	135×105	150	130	196	168×272×376	6.6	230 V; 50/60 Hz	2.1	L001084	E 4 S
11.0	300×190	150	130	196	331×361×376	8.6	230 V; 50/60 Hz	2.1	L001085	E 10 S
19.0	300×365	150	130	196	331×537×376	11.8	230 V; 50/60 Hz	2.1	L001087	E 20 S
25.0	300×365	200	180	246	331×537×426	13.1	230 V; 50/60 Hz	2.1	L001088	E 25 S
40.0	300×613	200	180	248	350×803×428	17.2	230 V; 50/60 Hz	2.1	L001089	E 40 S
-	-	150	-	-	130×135×325	3.4	230 V; 50/60 Hz	2.7	L001077	GOLD
6.0	130×285	160	140	169	143×433×349	4.5	230 V; 50/60 Hz	2.7	L001100	ET 6 G
12.0	300×175	160	140	208	322×331×389	6.8	230 V; 50/60 Hz	2.7	L001101	ET 12 G
15.0	275×130	310	290	356	428×148×532	6.8	230 V; 50/60 Hz	2.7	L001102	ET 15 G
20.0	300×350	160	140	208	322×506×389	8.0	230 V; 50/60 Hz	2.7	L001103	ET 20 G
3.5	135×105	150	130	196	168×272×376	7.0	230 V; 50/60 Hz	2.7	L001090	E 4 G
11.0	300×190	150	130	196	331×361×376	9.0	230 V; 50/60 Hz	2.7	L001091	E 10 G
19.0	300×365	150	130	196	331×537×376	12.2	230 V; 50/60 Hz	2.7	L001093	E 20 G
25.0	300×365	200	180	246	331×537×426	13.5	230 V; 50/60 Hz	2.7	L001094	E 25 G
40.0	300×613	200	180	248	350×803×428	17.6	230 V; 50/60 Hz	2.7	L001095	E 40 G

# LAUDA Heating thermostats

## Power supply variants

Device type	Power supply V; Hz	Heater power max. kW	Loading max. kW	Plug code*	Cat. No.	Device type	Power supply V; Hz	Heater power max. kW	Loading max. kW	Plug code*	Cat. No.
<b>LAUDA Alpha / Page 32</b>											
A	100 V; 50/60 Hz	1.0	1.0	14	L000634	A 12	100 V; 50/60 Hz	1.0	1.0	14	L000636
A	115 V; 60 Hz	1.2	1.2	14	L000630	A 12	115 V; 60 Hz	1.2	1.2	14	L000632
A 6	100 V; 50/60 Hz	1.0	1.0	14	L000635	A 24	100 V; 50/60 Hz	1.0	1.0	14	L000637
A 6	115 V; 60 Hz	1.2	1.2	14	L000631	A 24	115 V; 60 Hz	1.2	1.2	14	L000633
<b>LAUDA ECO / Page 34</b>											
SILVER	100 V; 50/60 Hz	1.0	1.1	14	L001082	E 40 S	100 V; 50/60 Hz	1.0	1.1	14	L001225
SILVER	115 V; 60 Hz	1.3	1.4	14	L001080	E 40 S	115 V; 60 Hz	1.3	1.4	14	L001196
SILVER	220 V; 60 Hz	1.9	2.0	3	L001078	E 40 S	220 V; 60 Hz	1.8	2.1	3	L001176
ET 6 S	100 V; 50/60 Hz	1.0	1.1	14	L001232	GOLD	100 V; 50/60 Hz	1.0	1.1	14	L001083
ET 6 S	115 V; 60 Hz	1.3	1.4	14	L001203	GOLD	115 V; 60 Hz	1.3	1.4	14	L001081
ET 6 S	220 V; 60 Hz	1.8	2.0	3	L001183	GOLD	220 V; 60 Hz	2.4	2.5	3	L001079
ET 12 S	100 V; 50/60 Hz	1.0	1.1	14	L001233	ET 6 G	100 V; 50/60 Hz	1.0	1.1	14	L001236
ET 12 S	115 V; 60 Hz	1.3	1.4	14	L001204	ET 6 G	115 V; 60 Hz	1.3	1.4	14	L001207
ET 12 S	220 V; 60 Hz	1.8	2.7	3	L001184	ET 6 G	220 V; 60 Hz	2.4	2.5	3	L001187
ET 15 S	100 V; 50/60 Hz	1.0	1.1	14	L001234	ET 12 G	100 V; 50/60 Hz	1.0	1.1	14	L001237
ET 15 S	115 V; 60 Hz	1.3	1.4	14	L001205	ET 12 G	115 V; 60 Hz	1.3	1.4	14	L001208
ET 15 S	220 V; 60 Hz	1.8	2.7	3	L001185	ET 12 G	220 V; 60 Hz	2.4	2.5	3	L001188
ET 20 S	100 V; 50/60 Hz	1.0	1.1	14	L001235	ET 15 G	100 V; 50/60 Hz	1.0	1.1	14	L001238
ET 20 S	115 V; 60 Hz	1.3	1.4	14	L001206	ET 15 G	115 V; 60 Hz	1.3	1.4	14	L001209
ET 20 S	220 V; 60 Hz	1.8	2.7	3	L001186	ET 15 G	220 V; 60 Hz	2.4	2.5	3	L001189
E 4 S	100 V; 50/60 Hz	1.0	1.1	14	L001220	ET 20 G	100 V; 50/60 Hz	1.0	1.1	14	L001239
E 4 S	115 V; 60 Hz	1.3	1.4	14	L001191	ET 20 G	115 V; 60 Hz	1.3	1.4	14	L001210
E 4 S	220 V; 60 Hz	1.8	2.1	3	L001171	ET 20 G	220 V; 60 Hz	2.4	2.5	3	L001190
E 10 S	100 V; 50/60 Hz	1.0	1.1	14	L001221	E 4 G	100 V; 50/60 Hz	1.0	1.1	14	L001226
E 10 S	115 V; 60 Hz	1.3	1.4	14	L001192	E 4 G	115 V; 60 Hz	1.3	1.4	14	L001197
E 10 S	220 V; 60 Hz	1.8	2.1	3	L001172	E 4 G	220 V; 60 Hz	2.4	2.5	3	L001177
E 20 S	100 V; 50/60 Hz	1.0	1.1	14	L001223	E 10 G	100 V; 50/60 Hz	1.0	1.1	14	L001227
E 20 S	115 V; 60 Hz	1.3	1.4	14	L001194	E 10 G	115 V; 60 Hz	1.3	1.4	14	L001198
E 20 S	220 V; 60 Hz	1.8	2.1	3	L001174	E 10 G	220 V; 60 Hz	2.4	2.5	3	L001178
E 25 S	100 V; 50/60 Hz	1.0	1.1	14	L001224	E 10 G	100 V; 50/60 Hz	1.0	1.1	14	L001227
E 25 S	115 V; 60 Hz	1.3	1.4	14	L001195	E 10 G	115 V; 60 Hz	1.3	1.4	14	L001198
E 25 S	220 V; 60 Hz	1.8	2.1	3	L001175	E 10 G	220 V; 60 Hz	2.4	2.5	3	L001178

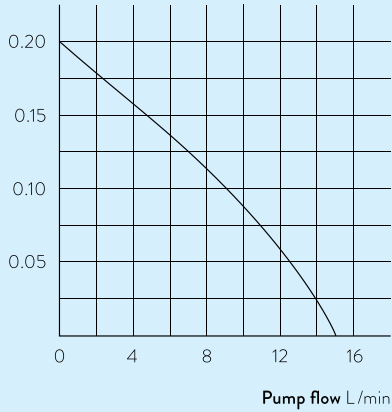
# LAUDA Heating thermostats

## More characteristics

LAUDA Alpha / Page 32

### PUMP CHARACTERISTIC Water

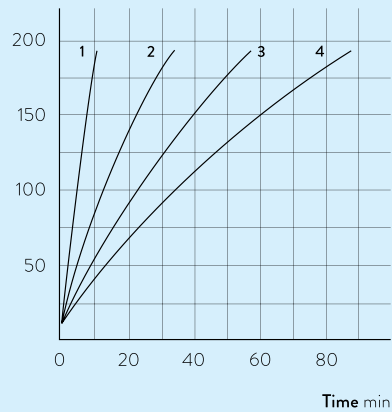
Pressure bar



LAUDA ECO / Page 34

### HEATING PERFORMANCE Heat transfer liquid: Therm 240, bath closed

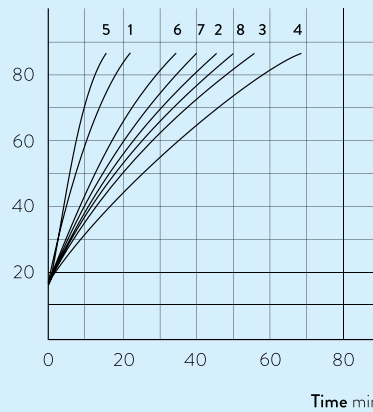
Bath temperature °C



- 1 E 4 S
- 2 E 10 S
- 3 E 20 S
- 4 E 25 S

### HEATING PERFORMANCE Heat transfer liquid: Water, bath closed

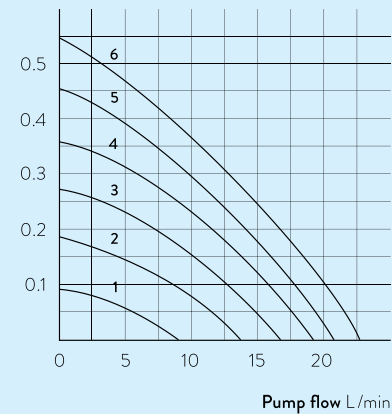
Bath temperature °C



- 1 ET 6 S
- 2 ET 12 S
- 3 ET 15 S
- 4 ET 20 S
- 5 ET 6 G
- 6 ET 12 G
- 7 ET 15 G
- 8 ET 20 G

### PUMP CHARACTERISTIC Water

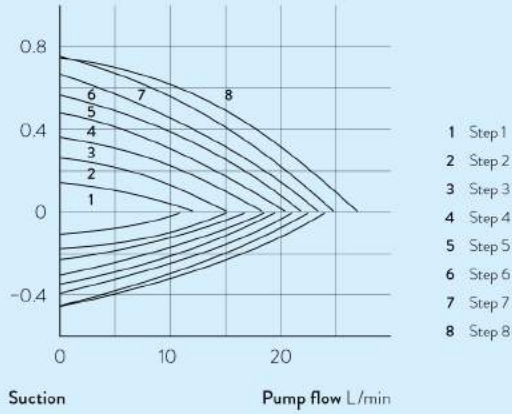
Pressure bar



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

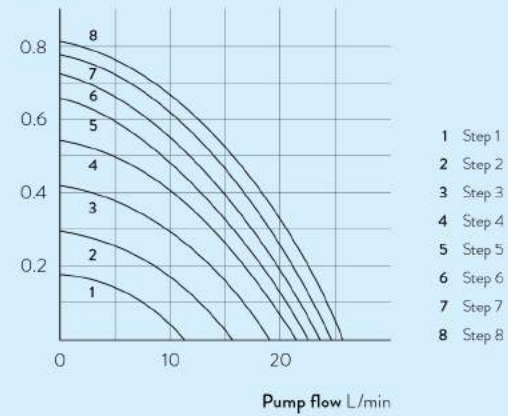
**PUMP CHARACTERISTIC** for PB and PBC, Water

Pressure bar



**PUMP CHARACTERISTIC** for PBD and PBD C, Water

Pressure bar



# LAUDA

## COOLING THERMOSTATS

°LAUDA



### Specific application examples

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





# LAUDA Alpha

Affordable cooling thermostats for maintaining temperatures from  $-25$  to  $100$  °C in the lab



## The cost-efficient choice for high-quality LAUDA thermostats

LAUDA Alpha offers reliable technology for temperature ranges from  $-25$  to  $100$  °C. This line of devices is suitable for internal and external temperature control thermostating with non-flammable liquids (water and water/glycol). The thermostats are the perfect solution for most basic temperature control applications in the lab. Optimized down to the most essential functions, this affordable product line will win you over with its reliability and user-friendliness.



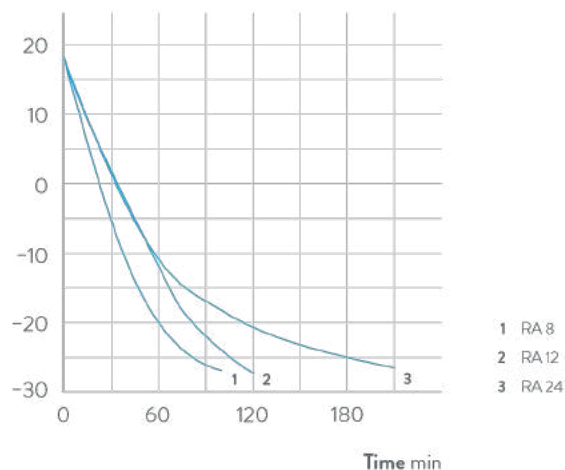
Cost savings through automatic compressor control: Cooling capacity is only provided when it is needed



Easy cleaning of the cooling air inlet enabled by simple removal of front cover without tools

## COOLING PERFORMANCE Heat transfer liquid: Ethanol, bath closed

Bath temperature °C



## Important functions

- Stainless steel bath vessels
- Drain connection at the rear

## Included accessories

Pump circulation set, bath cover, pump link for pump connections

## Further accessories

Racks, tubing

All technical data and power supply variants can be found in the [Technical data](#) section.

More at [www.lauda.de/1736](http://www.lauda.de/1736)



### LAUDA Alpha

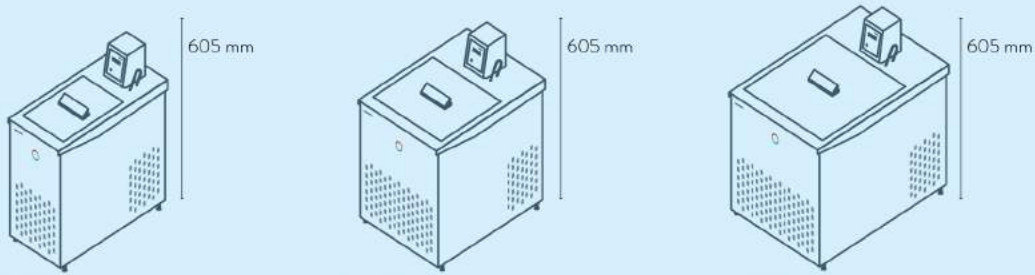
The cooling thermostats RA8, RA12 and RA24, including standard-issue bath covers and pump connections, facilitate cooling across the entire temperature range from  $-25$  to  $100$  °C. Automatic compressor control extends the service life of the compressor and offers savings on operation costs.



# LAUDA Cooling thermostats

## Device type overview

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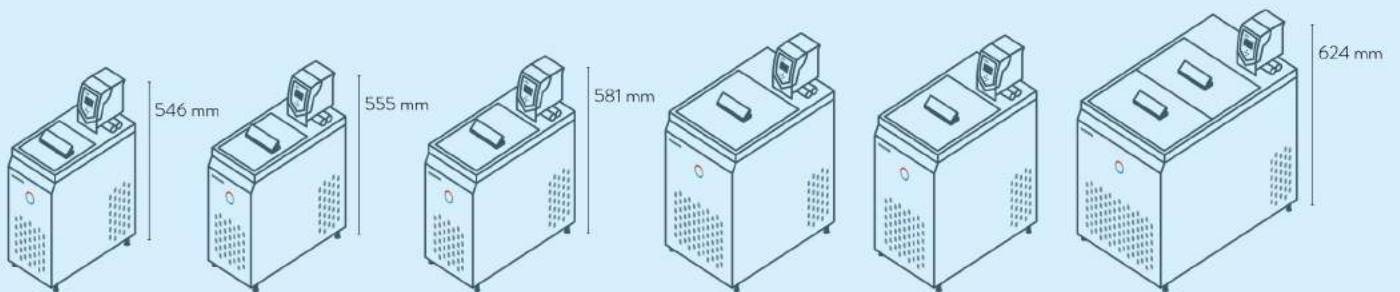


RA 8

RA 12

RA 24

LAUDA ECO / Page 58



RE 415 G

RE 420 G

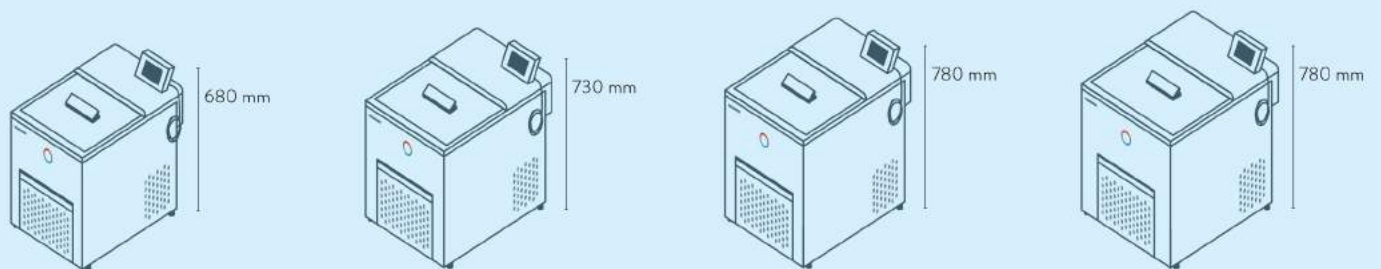
RE 630 G

RE 1050 G

RE 1225 G

RE 2025 G

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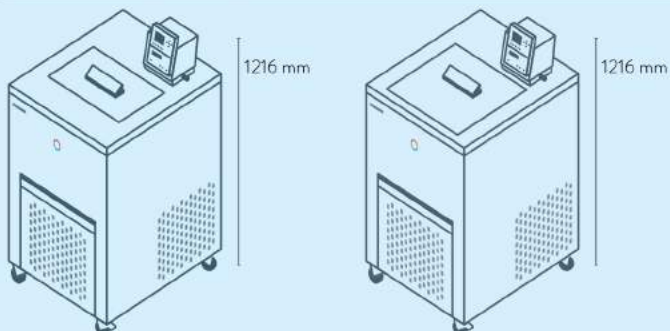
RP 2040 C  
RP 2045 C

RP 3035 C

RP 1090 C

RP 2090 C  
RP 10100 C

LAUDA Proline Kryomats / Page 62



RP 3090 C / CW

RP 4090 C / CW



# LAUDA Cooling thermostats

## Interfaces

	Pt 100 (1)	Pt 100 (2)	USB	Ethernet	RS 232 / 485	Analog	Namur contact	Sub-D contact	Profibus	EtherCat M8	EtherCat RJ 45	Number of module slots, large	Number of module slots, small
LAUDA Alpha / Page 56	-	-	-	-	-	-	-	-	-	-	-	-	-
LAUDA ECO / Page 58	Z	-	S	Z	Z	Z	Z	Z	Z	Z	Z	1	1
LAUDA PRO / Page 60	S	-	S	S	Z	Z	Z	Z	Z	Z	Z	1	-
LAUDA Proline Kryomat / Page 62	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



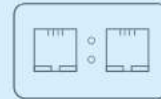
LRZ 918  
Pt100/Li bus module,  
small cover



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

## 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

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		
<b>LAUDA Alpha / Page 56</b>																				
RA 8	-25 ... 100	0.05	I, NFL	1.5	0.23	-	0.16	-	0.08	-	-	-	-	-	-	-	-	-	D	0.2
RA 12	-25 ... 100	0.05	I, NFL	1.5	0.33	-	0.26	-	0.08	-	-	-	-	-	-	-	-	-	D	0.2
RA 24	-25 ... 100	0.05	I, NFL	1.5	0.43	-	0.33	-	0.08	-	-	-	-	-	-	-	-	-	D	0.2
<b>LAUDA ECO / Page 58</b>																				
RE 415 S	-15 ... 200	0.02	III, FL	2.0	0.18 <sup>1</sup>	-	0.12 <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	V	0.6
RE 420 S	-20 ... 200	0.02	III, FL	2.0	0.20 <sup>1</sup>	-	0.15 <sup>1</sup>	-	0.03 <sup>1</sup>	-	-	-	-	-	-	-	-	-	V	0.6
RE 630 S	-30 ... 200	0.02	III, FL	2.0	0.30 <sup>1</sup>	-	0.24 <sup>1</sup>	-	0.10 <sup>1</sup>	-	0.02 <sup>1</sup>	-	-	-	-	-	-	-	V	0.6
RE 1050 S	-50 ... 200	0.02	III, FL	2.0	0.70 <sup>1</sup>	-	0.60 <sup>1</sup>	-	0.35 <sup>1</sup>	-	0.19 <sup>1</sup>	0.10 <sup>1</sup>	0.02 <sup>1</sup>	-	-	-	-	-	V	0.6
RE 1225 S	-25 ... 200	0.02	III, FL	2.0	0.30 <sup>1</sup>	-	0.24 <sup>1</sup>	-	0.09 <sup>1</sup>	0.04 <sup>1</sup>	-	-	-	-	-	-	-	-	V	0.6
RE 2025 S	-25 ... 200	0.02	III, FL	2.0	0.30 <sup>1</sup>	-	0.23 <sup>1</sup>	-	0.06 <sup>1</sup>	0.03 <sup>1</sup>	-	-	-	-	-	-	-	-	V	0.6
RE 415 G	-15 ... 200	0.02	III, FL	2.6	0.18 <sup>1</sup>	-	0.12 <sup>1</sup>	-	-	-	-	-	-	-	-	-	-	-	V	0.6
RE 420 G	-20 ... 200	0.02	III, FL	2.6	0.20 <sup>1</sup>	-	0.15 <sup>1</sup>	-	0.03 <sup>1</sup>	-	-	-	-	-	-	-	-	-	V	0.6
RE 630 G	-30 ... 200	0.02	III, FL	2.6	0.30 <sup>1</sup>	-	0.24 <sup>1</sup>	-	0.10 <sup>1</sup>	-	0.02 <sup>1</sup>	-	-	-	-	-	-	-	V	0.6
RE 1050 G	-50 ... 200	0.02	III, FL	2.6	0.70 <sup>1</sup>	-	0.60 <sup>1</sup>	-	0.35 <sup>1</sup>	-	0.19 <sup>1</sup>	0.10 <sup>1</sup>	0.02 <sup>1</sup>	-	-	-	-	-	V	0.6
RE 1225 G	-25 ... 200	0.02	III, FL	2.6	0.30 <sup>1</sup>	-	0.24 <sup>1</sup>	-	0.09 <sup>1</sup>	0.04 <sup>1</sup>	-	-	-	-	-	-	-	-	V	0.6
RE 2025 G	-25 ... 200	0.02	III, FL	2.6	0.30 <sup>1</sup>	-	0.23 <sup>1</sup>	-	0.06 <sup>1</sup>	0.03 <sup>1</sup>	-	-	-	-	-	-	-	-	V	0.6

<sup>1</sup>Pump output step 2

Pump flow max. pressure L/min	Pump connection thread mm	Nipples Øe	Bath volume min. L	Bath volume max. L	Bath opening (W x D) mm	Bath depth mm	Usable depth mm	Height top of bath mm	Dimensions (W x D x H) mm	Weight kg	Power supply V; Hz	Loading max. kW	Cat. No.	Device type
15.0	N/A	13	5.0	7.5	165×177	160	140	450	235×500×605	31.0	230 V; 50 Hz	1.8	L000638	RA 8
15.0	N/A	13	9.5	14.5	300×203	160	140	450	365×500×605	37.0	230 V; 50 Hz	1.8	L000639	RA 12
15.0	N/A	13	14.0	22.0	350×277	160	140	450	415×605×605	43.0	230 V; 50 Hz	1.8	L000640	RA 24
22.0	N/A	13	3.3	4.0	130×105	160	140	365	180×350×546	19.6	230 V; 50 Hz	2.2	L001249	RE 415 S
22.0	N/A	13	3.3	4.0	130×105	160	140	374	180×396×555	21.6	230 V; 50 Hz	2.2	L001333	RE 420 S
22.0	N/A	13	4.6	5.7	150×130	160	140	400	200×430×581	27.2	230 V; 50 Hz	2.3	L001335	RE 630 S
22.0	N/A	13	8.0	10.0	200×200	160	140	443	280×440×624	34.6	230 V; 50 Hz	2.5	L001336	RE 1050 S
22.0	N/A	13	9.3	12.0	200×200	200	180	443	250×435×624	30.0	230 V; 50 Hz	2.3	L001337	RE 1225 S
22.0	N/A	13	14.0	20.0	300×350	160	140	443	350×570×624	37.0	230 V; 50 Hz	2.3	L001338	RE 2025 S
22.0	M16×1	13	3.3	4.0	130×105	160	140	365	180×350×546	20.0	230 V; 50 Hz	2.8	L001256	RE 415 G
22.0	M16×1	13	3.3	4.0	130×105	160	140	374	180×396×555	22.0	230 V; 50 Hz	2.8	L001339	RE 420 G
22.0	M16×1	13	4.6	5.7	150×130	160	140	400	200×430×581	27.6	230 V; 50 Hz	2.9	L001341	RE 630 G
22.0	M16×1	13	8.0	10.0	200×200	160	140	443	280×440×624	35.0	230 V; 50 Hz	3.1	L001342	RE 1050 G
22.0	M16×1	13	9.3	12.0	200×200	200	180	443	250×435×624	30.4	230 V; 50 Hz	2.9	L001343	RE 1225 G
22.0	M16×1	13	14.0	20.0	300×350	160	140	443	350×570×624	37.4	230 V; 50 Hz	2.9	L001344	RE 2025 G

# LAUDA Cooling thermostats

## Power supply variants

Device type	Power supply V; Hz	Heater power max. kW	Loading max. kW	Plug code*	Cat. No.	Device type	Power supply V; Hz	Heater power max. kW	Loading max. kW	Plug code*	Cat. No.
<b>LAUDA Alpha / Page 56</b>											
RA 8	100 V; 50/60 Hz	1.0	1.3	14	L000653	RA 24	100 V; 50/60 Hz	1.0	1.3	14	L000655
RA 8	115 V; 60 Hz	1.2	1.5	14	L000650	RA 24	115 V; 60 Hz	1.2	1.5	14	L000652
RA 8	220 V; 60 Hz	1.4	1.8	17	L000647	RA 24	220 V; 60 Hz	1.4	1.8	17	L000649
RA 12	100 V; 50/60 Hz	1.0	1.3	14	L000654						
RA 12	115 V; 60 Hz	1.2	1.5	14	L000651						
RA 12	220 V; 60 Hz	1.4	1.8	17	L000648						
<b>LAUDA ECO / Page 58</b>											
RE 415 S	115 V; 60 Hz	1.3	1.4	14	L001433	RE 1050 S	100 V; 50/60 Hz	1.0	1.5	14	L001465
RE 415 S	220 V; 60 Hz	1.8	2.1	3	L001405	RE 1050 S	115 V; 60 Hz	1.3	1.4	14	L001437
RE 415 S	220 V; 60 Hz	1.8	2.1	2	L002073	RE 1050 S	220 V; 60 Hz	1.8	2.4	3	L001409
RE 415 G	115 V; 60 Hz	1.3	1.4	14	L001440	RE 1050 S	220 V; 60 Hz	1.8	2.4	2	L002077
RE 415 G	220 V; 60 Hz	2.4	2.6	3	L001412	RE 1050 G	100 V; 50/60 Hz	1.0	1.5	14	L001472
RE 415 G	220 V; 60 Hz	2.4	2.6	2	L002080	RE 1050 G	115 V; 60 Hz	1.3	1.4	14	L001444
RE 420 S	100 V; 50/60 Hz	1.0	1.2	14	L001462	RE 1050 G	220 V; 60 Hz	2.4	2.9	3	L001416
RE 420 S	115 V; 60 Hz	1.3	1.4	14	L001434	RE 1225 S	100 V; 50/60 Hz	1.0	1.3	14	L001466
RE 420 S	220 V; 60 Hz	1.8	2.1	3	L001406	RE 1225 S	115 V; 60 Hz	1.3	1.4	14	L001438
RE 420 S	220 V; 60 Hz	1.8	2.1	2	L002074	RE 1225 S	220 V; 60 Hz	1.8	2.1	2	L002078
RE 420 G	100 V; 50/60 Hz	1.0	1.2	14	L001469	RE 1225 S	220 V; 60 Hz	1.8	2.1	3	L001410
RE 420 G	115 V; 60 Hz	1.3	1.4	14	L001441	RE 1225 G	100 V; 50/60 Hz	1.0	1.3	14	L001473
RE 420 G	220 V; 60 Hz	2.4	2.6	3	L001413	RE 1225 G	115 V; 60 Hz	1.3	1.4	14	L001445
RE 630 S	100 V; 50/60 Hz	1.0	1.3	14	L001464	RE 1225 G	220 V; 60 Hz	2.4	2.7	3	L001417
RE 630 S	115 V; 60 Hz	1.3	1.4	14	L001436	RE 2025 S	100 V; 50/60 Hz	1.0	1.3	14	L001467
RE 630 S	220 V; 60 Hz	1.8	2.1	3	L001408	RE 2025 S	115 V; 60 Hz	1.3	1.4	14	L001439
RE 630 S	220 V; 60 Hz	1.8	2.1	2	L002076	RE 2025 S	220 V; 60 Hz	1.8	2.1	2	L002079
RE 630 G	100 V; 50/60 Hz	1.0	1.3	14	L001471	RE 2025 S	220 V; 60 Hz	1.8	2.1	3	L001411
RE 630 G	115 V; 60 Hz	1.3	1.4	14	L001443	RE 2025 G	100 V; 50/60 Hz	1.0	1.3	14	L001474
RE 630 G	220 V; 60 Hz	2.4	2.7	2	L002083	RE 2025 G	115 V; 60 Hz	1.3	1.4	14	L001446
RE 630 G	220 V; 60 Hz	2.4	2.7	3	L001415	RE 2025 G	220 V; 60 Hz	2.4	2.7	3	L001418

\*All data for the plug codes can be found on page 150

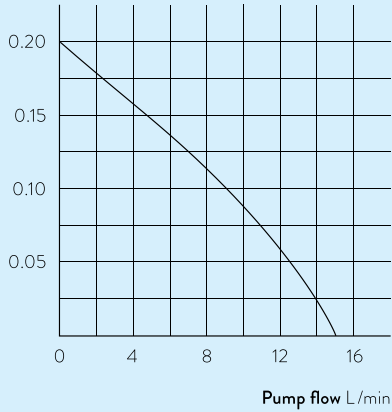
# LAUDA Cooling thermostats

## More characteristics

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### PUMP CHARACTERISTIC Water

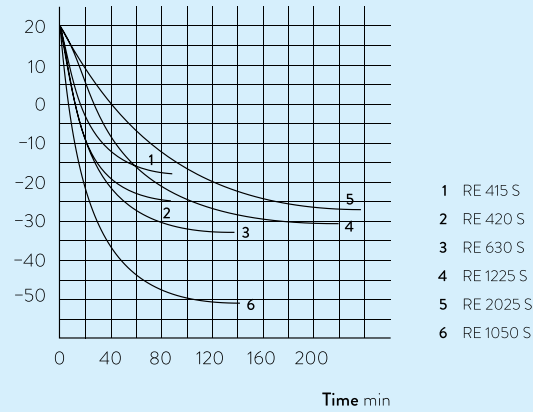
Pressure bar



LAUDA ECO / Page 58

### COOLING PERFORMANCE According to DIN 12876

Bath temperature °C



LAUDA Proline Kryomats / Page 62

### COOLING PERFORMANCE According to DIN 12876

Bath temperature °C

