

LAUDA

ENTREGA LAB NUESTRO ALMACEN CD DE MEXICO

LAUDA Aqualine

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
Water baths							
AL 2	25...95	0.2	0.5	-	0,9...1,7	300x151/65	LCB 0723
AL 5	25...95	0.2	0.5	-	1,0...5,0	300x151/150	LCB 0724
AL 12	25...95	0.2	1.0	-	2,0...12,0	329x300/150	LCB 0725
AL 18	25...95	0.2	1.2	-	3,0...18,0	505x300/150	LCB 0726
AL 25	25...95	0.2	1.2	-	3,0...25,0	505x300/200	LCB 0727

See page 16 for suitable trays

LAUDA Alpha

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
Immersion thermostat							
Alpha	25...100	0.05	1.5	-	max. 50	-/min.150	LCE 0226
Heating thermostats with stainless steel bath							
A 6	25...100	0.05	1.5	-	4...5,5	145x161/150	LCB 0733
A 12	25...100	0.05	1.5	-	8...12	235x161/200	LCB 0734
A 24	25...100	0.05	1.5	-	18...24	295x374/200	LCB 0735
Cooling coil							LCZE004
Pump kit							LCZE005
Stainless steel bath covers							
Alpha bath cover set A 6							LCZE006
Alpha bath cover set A 12							LCZE007
Alpha bath cover set A 24							LCZE008
Cooling thermostats							
RA 8	-25...100	0.05	1.5	0.225	5...7,5	165x177/160	LCK 1907
RA 12	-25...100	0.05	1.5	0.325	9,5...14,5	300x203/160	LCK 1908
RA 24	-25...100	0.05	1.5	0.425	14...22	350x277/160	LCK 1909

LAUDA ECO

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
Immersion thermostats							
... S = Silver							
... G = Gold							
ECO Silver	20...150	0.01	1.3	-	max. 60	-/min.150	LCE 0227
ECO Gold	20...200	0.01	2.6	-	max. 60	-/min.150	LCE 0228
Cooling coil							LCZ 0720
Pump kit with plastic olive, 13 mm, for all ECO heating and immersion thermostats							LCZ 0716
Pump kit M16x1, metal, for all ECO heating and immersion thermostats							LCZ 0717
Transparent polycarbonate baths - up to 100 °C							
6 T	20...100	-	-	-	6	130x420/160	LCZ 0703
12 T	20...100	-	-	-	12	300x315/160	LCZ 0704
15 T	20...100	-	-	-	15	416x130/310	LCZ 0705
20 T	20...100	-	-	-	20	300x490/160	LCZ 0706
Insulated stainless steel baths with drain - up to 200 °C							
B 4	20...200	-	-	-	3.5	135x240/150	LCZ 0707
B 10	20...200	-	-	-	11	300x329/150	LCZ 0708
B 15	20...200	-	-	-	16	300x329/200	LCZ 0709
B 20	20...200	-	-	-	19	300x505/150	LCZ 0710
B 25	20...200	-	-	-	25	300x505/200	LCZ 0711
B 40	20...200	-	-	-	40	300x750/200	LCZ 0712
Heating thermostats with transparent bath							
ET 6 S	20...100	0.01	1.3	-	5...6	130x285/160	LCM 0096

ET 12 S	20...100	0.01	1.3	-	9,5...12	300x175/160	LCD 0286
ET 15 S	20...100	0.01	1.3	-	13,5...15	275x130/310	LCD 0288
ET 20 S	20...100	0.01	1.3	-	15...20	300x350/160	LCD 0290
ET 6 G	20...100	0.01	2.6	-	5...6	130x285/160	LCM 0097
ET 12 G	20...100	0.01	2.6	-	9,5...12	300x175/160	LCD 0287
ET 15 G	20...100	0.01	2.6	-	13,5...15	275x130/310	LCD 0289
ET 20 G	20...100	0.01	2.6	-	15...20	300x350/160	LCD 0291

LAUDA ECO

Model	Temperature Range	Temp. stability	Heater power	Cooling output	Filling volume	Bath opening	Cat.-No.
... S = Silver	°C	±°C	kW	kW at 20 °C	L	WxD / depth mm	
... G = Gold	°C	±°C	kW	kW at 20 °C	L	WxD / depth mm	
Heating thermostats with stainless steel bath							
E 4 S	20...150	0.01	1.3	-	3...3,5	135x105/150	LCB 0736
E 10 S	20...150	0.01	1.3	-	7,5...11	300x190/150	LCB 0738
E 15 S	20...150	0.01	1.3	-	12...16	300x190/200	LCB 0740
E 20 S	20...150	0.01	1.3	-	13...19	300x365/150	LCB 0742
E 25 S	20...150	0.01	1.3	-	16...25	300x365/200	LCB 0744
E 40 S	20...150	0.01	1.3	-	32...40	300x613/200	LCB 0746
E 4 G	20...200	0.01	2.6	-	3...3,5	135x105/150	LCB 0737
E 10 G	20...200	0.01	2.6	-	7,5...11	300x190/150	LCB 0739
E 15 G	20...200	0.01	2.6	-	12...16	300x190/200	LCB 0741
E 20 G	20...200	0.01	2.6	-	13...19	300x365/150	LCB 0743
E 25 G	20...200	0.01	2.6	-	16...25	300x365/200	LCB 0745
E 40 G	20...200	0.01	2.6	-	32...40	300x613/200	LCB 0747
Bath covers							
Bath cover, stainless steel, one piece with handle				E 10, E 15			HDQ 133
Bath cover, stainless steel, one piece with handle				E 20, E 25			HDQ 134
Bath cover, stainless steel, three pieces, with handle				E 40			LCZ 0718
Bath cover, polymer, one piece with handle				E4 (included)			HDQ 132
Cooling coil				ET 15 S/G			LCZ 0719
Viscothermostats							
Viscotemp 15 S	30...105	0.01	1.3	-	16,0...19,0	252x145x320	LCD 0296
Viscotemp 15 G	30...105	0.01	2.6	-	16,0...19,0	252x145x320	LCD 0297
Viscotemp 18 S	30...105	0.01	1.3	-	16,5...19,5	Ø290x320	LCD 0294
Viscotemp 18 G	30...105	0.01	2.6	-	16,5...19,5	Ø290x320	LCD 0295
Viscotemp 24 S	30...105	0.01	1.3	-	22,5...27,0	430x145x320	LCD 0298
Viscotemp 24 G	30...105	0.01	2.6	-	22,5...27,0	430x145x320	LCD 0299
Viscotemp 40 G	30...105	0.01	2.6	-	37,5...44,0	430x230x320	LCD 0301
Viscothermostats with integrated cooling							
Viscocool 6	15...90	0.01	1.3	-	6,4...6,5	188x128x330	LCD 0292
Cooling thermostats, condenser air-cooled							
RE 415 S	-15...150	0.02	1.3	0,18	3,3...4	130x105/160	LCK 1910
RE 420 S	-20...150	0.02	1.3	0,20	3,3...4	130x105/160	LCK 1912
RE 620 S	-20...150	0.02	1.3	0,20	4,6...5,7	150x130/160	LCK 1914
RE 630 S	-30...150	0.02	1.3	0,30	4,6...5,7	150x130/160	LCK 1916
RE 1050 S	-50...150	0.02	1.3	0,70	8...10	200x200/160	LCK 1918
RE 1225 S	-25...150	0.02	1.3	0,30	9,3...12	200x200/200	LCK 1920
RE 2025 S	-25...150	0.02	1.3	0,30	14...20	300x350/160	LCK 1922
RE 415 G	-15...200	0.02	2.6	0,18	3,3...4	130x105/160	LCK 1911
RE 420 G	-20...200	0.02	2.6	0,20	3,3...4	130x105/160	LCK 1913
RE 620 G	-20...200	0.02	2.6	0,20	4,6...5,7	150x130/160	LCK 1915
RE 630 G	-30...200	0.02	2.6	0,30	4,6...5,7	150x130/160	LCK 1917
RE 1050 G	-50...200	0.02	2.6	0,70	8...10	200x200/160	LCK 1919
RE 1225 G	-25...200	0.02	2.6	0,30	9,3...12	200x200/200	LCK 1921
RE 2025 G	-25...200	0.02	2.6	0,30	14...20	300x350/160	LCK 1923
Cooling thermostats, condenser water-cooled							
RE 415 SW	-15...150	0.02	1.3	0,18	3,3...4	130x105/160	LCK 1924
RE 420 SW	-20...150	0.02	1.3	0,20	3,3...4	130x105/160	LCK 1926
RE 620 SW	-20...150	0.02	1.3	0,20	4,6...5,7	150x130/160	LCK 1928
RE 630 SW	-30...150	0.02	1.3	0,30	4,6...5,7	150x130/160	LCK 1930
RE 1050 SW	-50...150	0.02	1.3	0,70	8...10	200x200/160	LCK 1932
RE 1225 SW	-25...150	0.02	1.3	0,30	9,3...12	200x200/200	LCK 1934
RE 2025 SW	-25...150	0.02	1.3	0,30	14...20	300x350/160	LCK 1936
RE 415 GW	-15...200	0.02	2.6	0,18	3,3...4	130x105/160	LCK 1925
RE 420 GW	-20...200	0.02	2.6	0,20	3,3...4	130x105/160	LCK 1927
RE 620 GW	-20...200	0.02	2.6	0,20	4,6...5,7	150x130/160	LCK 1929
RE 630 GW	-30...200	0.02	2.6	0,30	4,6...5,7	150x130/160	LCK 1931

RE 1050 GW	-50...200	0.02	2.6	0,70	8...10	200x200/160	LCK 1933
RE 1225 GW	-25...200	0.02	2.6	0,30	9,3...12	200x200/200	LCK 1935
RE 2025 GW	-25...200	0.02	2.6	0,30	14...20	300x350/160	LCK 1937

LAUDA ECO

Model	Temperature Range	Temp. stability	Heater power	Cooling output	Filling volume	Bath opening	Cat.-No.
... S = Silver	Range	stability	power	output	volume	WxD / depth	
... G = Gold	°C	±°C	kW	kW at 20 °C	L	mm	
Cooling thermostats with natural refrigerant, condenser air-cooled							
RE 420 SN	-20...150	0.02	1.3	0,20	3,3...4	130x105/160	LCK 1940
RE 620 SN	-20...150	0.02	1.3	0,20	4,6...5,7	150x130/160	LCK 1942
RE 630 SN	-30...150	0.02	1.3	0,30	4,6...5,7	150x130/160	LCK 1944
RE 1050 SN	-50...150	0.02	1.3	0,70	8...10	200x200/160	LCK 1946
RE 1225 SN	-25...150	0.02	1.3	0,30	9,3...12	200x200/200	LCK 1948
RE 2025 SN	-25...150	0.02	1.3	0,30	14...20	300x350/160	LCK 1950
RE 420 GN	-20...200	0.02	2.6	0,20	3,3...4	130x105/160	LCK 1941
RE 620 GN	-20...200	0.02	2.6	0,20	4,6...5,7	150x130/160	LCK 1943
RE 630 GN	-30...200	0.02	2.6	0,30	4,6...5,7	150x130/160	LCK 1945
RE 1050 GN	-50...200	0.02	2.6	0,70	8...10	200x200/160	LCK 1947
RE 1225 GN	-25...200	0.02	2.6	0,30	9,3...12	200x200/200	LCK 1949
RE 2025 GN	-25...200	0.02	2.6	0,30	14...20	300x350/160	LCK 1951
Cooling thermostats with natural refrigerant, condenser water-cooled							
RE 420 SWN	-20...150	0.02	1.3	0,20	3,3...4	130x105/160	LCK 1954
RE 620 SWN	-20...150	0.02	1.3	0,20	4,6...5,7	150x130/160	LCK 1956
RE 630 SWN	-30...150	0.02	1.3	0,30	4,6...5,7	150x130/160	LCK 1958
RE 1050 SWN	-50...150	0.02	1.3	0,70	8...10	200x200/160	LCK 1960
RE 1225 SWN	-25...150	0.02	1.3	0,30	9,3...12	200x200/200	LCK 1962
RE 2025 SWN	-25...150	0.02	1.3	0,30	14...20	300x350/160	LCK 1964
RE 420 GWN	-20...200	0.02	2.6	0,20	3,3...4	130x105/160	LCK 1955
RE 620 GWN	-20...200	0.02	2.6	0,20	4,6...5,7	150x130/160	LCK 1957
RE 630 GWN	-30...200	0.02	2.6	0,30	4,6...5,7	150x130/160	LCK 1959
RE 1050 GWN	-50...200	0.02	2.6	0,70	8...10	200x200/160	LCK 1961
RE 1225 GWN	-25...200	0.02	2.6	0,30	9,3...12	200x200/200	LCK 1963
RE 2025 GWN	-25...200	0.02	2.6	0,30	14...20	300x350/160	LCK 1965

LAUDA Proline

Model	Temperature Range	Temp. stability	Heater power	Cooling output	Filling volume	Bath opening	Cat.-No.
	Range	stability	power	output	volume	WxD / depth	
	°C	±°C	kW	kW at 20 °C	L	mm	
Heating thermostats							
P 5	35...300	0.01	3.5	-	3,5...5,5	150x50/200	LCB 0708
P 8	35...300	0.01	3.5	-	5,5...8	150x150/200	LCB 0710
P 12	30...300	0.01	3.5	-	6,5...13,5	150x150/320	LCB 0716
P 18	30...300	0.01	3.5	-	12,5...19	300x200/200	LCB 0712
P 26	30...300	0.01	3.5	-	18...27	300x350/200	LCB 0714
P 40	30...300	0.01	3.5	-	30...37	250x250/450	LCB 0728
P 50	30...300	0.01	3.5	-	35...53	300x750/200	LCB 0730
P 5 C	35...300	0.01	3.5	-	3,5...5,5	150x50/200	LCB 0709
P 8 C	35...300	0.01	3.5	-	5,5...8	150x150/200	LCB 0711
P 12 C	30...300	0.01	3.5	-	6,5...13,5	150x150/320	LCB 0717
P 18 C	30...300	0.01	3.5	-	12,5...19	300x200/200	LCB 0713
P 26 C	30...300	0.01	3.5	-	18...27	300x350/200	LCB 0715
P 40 C	30...300	0.01	3.5	-	30...37	250x250/450	LCB 0729
P 50 C	30...300	0.01	3.5	-	35...53	300x750/200	LCB 0731
Viscothermostats							
PV 15	30...230	0.01	3.5	-	11...15	230x135/320	LCD 0276
PV 24	30...230	0.01	3.5	-	19...24	405x135/320	LCD 0278
PV 36	30...230	0.01	3.5	-	28...36	585x135/320	LCD 0280
PVL 15	(-60*) 30...100	0.01	3.5	-	11...15	230x135/320	LCD 0282
PVL 24	(-60*) 30...100	0.01	3.5	-	19...24	405x135/320	LCD 0284
PV 15 C	30...230	0.01	3.5	-	11...15	230x135/320	LCD 0277
PV 24 C	30...230	0.01	3.5	-	19...24	405x135/320	LCD 0279
PV 36 C	30...230	0.01	3.5	-	28...36	585x135/320	LCD 0281
PVL 15 C	(-60 *) 30...100	0.01	3.5	-	11...15	230x135/320	LCD 0283
PVL 24 C	(-60 *) 30...100	0.01	3.5	-	19...24	405x135/320	LCD 0285

* combined with RP 890 and low-temperature solenoid valve LCZ 9726 see page 6

LAUDA Proline

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
Bridge thermostats							
PB	30...300	0.01	3.5	-	max. 80	/-min. 200	LCG 0090
PBD	30...300	0.01	3.5	-	max. 80	/-min. 320	LCG 0092
PB C	30...300	0.01	3.5	-	max. 80	/-min. 200	LCG 0091
PBD C	30...300	0.01	3.5	-	max. 80	/-min. 320	LCG 0093
Cooling thermostats							
RP 845	-45...200	0.01	3.5	0,80	5,5...8	150x150/200	LCK 1885
RP 855	-55...200	0.01	3.5	1,60	5,5...8	150x150/200	LCK 1893
RP 870	-70...200	0.02	3.5	0.38	5,5...8	150x150/200	LCK 1895
RP 890	-90...200	0.02	3.5	1,10	5,5...8	150x150/200	LCK 1897
RP 1290	-88...200	0.02	3.5	1,10	8...13,5	300x150/200	LCK 1899
RP 1840	-40...200	0.01	3.5	0,90	12,5...19	300x200/200	LCK 1887
RP 1845	-50...200	0.01	3.5	1,60	12,5...19	300x200/200	LCK 1891
RP 3530	-35...200	0.02	3.5	0,90	23...35	300x350/250	LCK 1889
RP 845 C	-45...200	0.01	3.5	0,80	5,5...8	150x150/200	LCK 1886
RP 855 C	-55...200	0.01	3.5	1,60	5,5...8	150x150/200	LCK 1894
RP 870 C	-70...200	0.02	3.5	0.38	5,5...8	150x150/200	LCK 1896
RP 890 C	-90...200	0.02	3.5	1,10	5,5...8	150x150/200	LCK 1898
RP 1290 C	-88...200	0.02	3.5	1,10	8...13,5	300x150/200	LCK 1900
RP 1840 C	-40...200	0.01	3.5	0,90	12,5...19	300x200/200	LCK 1888
RP 1845 C	-50...200	0.01	3.5	1,60	12,5...19	300x200/200	LCK 1892
RP 3530 C	-35...200	0.02	3.5	0,90	23...35	300x350/250	LCK 1890

LAUDA Proline Kryomats

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
Cooling thermostats							
RP 3050 C	-50...200	0.05	3,5	5,0	23...31	350x200/250	LUK 239
RP 3050 CW	-50...200	0.05	3,5	6,0	23...31	350x200/250	LUK 240
RP 4050 C	-50...200	0.05	3,5	5,0	32...44	350x350/250	LUK 241
RP 4050 CW	-50...200	0.05	3,5	6,0	32...44	350x350/250	LUK 242
RP 3090 C	-90...200	0.05	3,5	3,0	23...31	350x200/250	LUK 245
RP 3090 CW	-90...200	0.05	3,5	4,0	23...31	350x200/250	LUK 246
RP 4090 C	-90...200	0.05	3,5	3,0	32...44	350x350/250	LUK 247
RP 4090 CW	-90...200	0.05	3,5	4,0	32...44	350x350/250	LUK 248

Proline Options (ex works only)

Designation	suitable for:	Cat.-No.
External pump, 0,9 bar, 90 L/min. (-90 up to 150 °C)	Proline Kryomats	LWZ 080
External pump, 3,2 bar, 40L/min. (-40 up to 150 °C)	Proline Kryomats	LWZ 086
Bath edge heating system for RP 855 (C) and RP 870 (C)	RP 855 (C), RP 870 (C)	LCZ 9670

Important accessories

Bath cover, one part with handle	P 40	HDQ 122
Bath cover, one part with handle, for use with rising	P 40	HDQ 138
Bath cover, three parts with three handles	P 50	LCZ 0696
Bathcover for inert gas cover	RP 845 (C), RP 855 (C)	LCZ 0675
Bathcover for inert gas cover	RP 1840 (C), RP 1845 (C)	LCZ 0674
Gable cover (beer forcing test)	RP 3530 (C)	LCZ 0666
Solenoid valve with LiBus-connector (155 °C max.)		LCZ 9662
Solenoid valve with LiBus-connector for PVL		LCZ 9726
Automatic filling with LiBus		LCZ 9661
Reverse flow protection/shut down valve with LiBus		LCZ 9673
Level controller, mechanical (-30...180 °C)	P 8 (C), RP 845 (C), RP 855 (C)	LCZ 0660
Connection set for ext. inlet and outlet	LCZ 0660	LCZ 0679
Plunger	P 8 (C), RP 845 / 855 / 870 / 890 (C)	LCZ 0667

Equipment trolley and socle with castors

Adapterset for castors (2 blockers)	RP 855 / 870 / 890 / 1290 / 1845 (C)	LCZ 0669
Adapterset for castors (4 blockers)	RP 855 / 870 / 890 / 1290 / 1845 (C)	LCZ 0672

LAUDA Proline

Designation	suitable for:	Cat.-No.
Important accessories		
Accessories for notch bending tests		
Insert basket	RP 870, RP 890, RP 855, RP 845	LCZ 0658
Insert basket	RP 3090 C (W), RP 3050 C (W)	LUZ 008

Insert basket	RP 4090 C (W), RP 4050 C (W)	LUZ 009
Insert basket	RP 1290 (C)	LCZ 0694

Accessories for pour point determination

Bath cover to take 16 metal beakers for pour point determination	RP 4090 C (W), RP 4050 C (W)	UP 065
Bath cover as above, but for 2 metal beakers	RP 870, RP 845, RP 855	LCZ 0692
Bath cover as above, but for 2 metal beakers	RP 890	LCZ 0693
Metal beaker to take glass vessel EGG 009	LCZ 0692, 0693	EU 034
Glass vessel	EU 034	EGG 009

LAUDA Calibration thermostats

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
Ecoline							
RE 212 J	-30...200	0.01	2.25	0,30	9...12	Ø150/180**	LCK 1879
RE 312 J	-30...200	0.01	2.25	0,30	9...12	Ø150/180**	LCK 1880
Proline							
PJ 12	30...300	0.01	3.5	-	8,5...13,5	Ø120/300**	LCB 0720
PJL 12	(-40*)30...200	0.01	3.5	-	8,5...13,5	Ø120/300**	LCB 0718
PJ 12 C	30...300	0.01	3.5	-	8,5...13,5	Ø120/300**	LCB 0721
PJL 12 C	(-40*)30...200	0.01	3.5	-	8,5...13,5	Ø120/300**	LCB 0719

* with additional cooler, see page 9

** values refer to usable depths, bath depths are 20 mm deeper

Bath cover, round with handle	RE 212 J, RE 312 J	LCZ 0691
Bath cover, round with handle	PJ 12 (C), PJL 12 (C)	HDR 028

See page 17 for suitable trays

LAUDA Integral T

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
Process thermostats							
T 1200	-25...120	0.2	2.25	1,2	3...7	-	LWP 101
T 1200 W	-25...120	0.2	2.25	1,6	3...7	-	LWP 102
T 2200	-25...120	0.2	2.25	2,2	3...7	-	LWP 103
T 2200 W	-25...120	0.2	2.25	2,7	3...7	-	LWP 104
T 4600	-30...120	0.2	6,0	4,6	6...18	-	LWP 205
T 4600 W	-30...120	0.2	6,0	5,5	6...18	-	LWP 206
T 7000	-30...120	0.3	6,0	7,0	8...20	-	LWP 207
T 7000 W	-30...120	0.3	6,0	8,5	8...20	-	LWP 208
T 10000	-30...120	0.3	9,0	10,0	8...20	-	LWP 209
T 10000 W	-30...120	0.3	9,0	13,0	8...20	-	LWP 210

Options (ex works only)

Designation	suitable for:	Cat.-No.
Enlarged temperature range 150 °C	T 7000...T 10000 W	LWZ 029
Pump connection thread M 38 x 1,5	T 7000...T 10000 W	LWZ 093
Flow control instrument 5 L/min	T 1200...T 4600 W	LWZ 035
Flow control instrument 10 L/min	T 7000...T 10000 W	LWZ 036
Low-pressure pump 1 bar, flow rate max. 30 L/min	T 1200...T 2200 W	LWZ 041
High-power pump 5,5 bar, flow rate max. 40 L/min	T 1200...T 2200 W	LWZ 031
High-power pump 5,5 bar, flow rate max. 40 L/min	T 4600, T 4600 W	LWZ 032

LAUDA Integral XT

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
High temperature process thermostats							
XT 4 H	80...320	0,05	3,5	-	2,6	-	LWP 147
XT 4 HW	30...320	0,1	3,5	-	2,6	-	LWP 148
XT 8 H	80...320	0,05	8	-	2,6	-	LWP 549
XT 8 HW	30...320	0,1	8	-	2,6	-	LWP 550
Process thermostats							
XT 150	-45...220	0,05	3,5	1,5	2,6	-	LWP 112
XT 250 W	-45...220	0,05	3,5	2,1	2,6	-	LWP 113
XT 350 W	-50...220	0,10	3,5	3,1	5,0	-	LWP 117
XT 350 HW	-50...300	0,10	3,5	3,1	5,3	-	LWP 119
XT 550	-50...200	0,10	5,3	5,0	5,0	-	LWP 524
XT 550 W	-50...200	0,05	5,3	5,0	5,0	-	LWP 525
XT 750	-50...220	0,05	5,3	6,7	5,0	-	LWP 520
XT 750 S	-50...220	0,05	8,0	6,7	8,0	-	LWP 552
XT 750 H	-50...300	0,05	5,3	6,7	5,3	-	LWP 522

XT 750 HS	-50...300	0,05	8,0	6,7	8,0	-	LWP 553
XT 950 W	-50...220	0,10	5,3	9,0	5,0	-	LWP 521
XT 950 WS	-50...220	0,10	8,0	9,0	8,0	-	LWP 554
XT 1850 W	-50...220	0,30	10,4	18,5	9,0	-	LWP 532
XT 1850 WS	-50...220	0,30	16,5	18,5	9,0	-	LWP 533
XT 280	-80...220	0,10	4,0	1,5	5,3	-	LWP 534
XT 280 W	-80...220	0,10	4,0	1,5	5,3	-	LWP 535
XT 490 W	-90...220	0,10	5,3	4,4	9,5	-	LWP 539
XT 1590 WS	-90...220	0,30	8,0	15,0	10,5	-	LWP 551

Options (ex works only)

Designation	suitable for:	Cat.-No.
Insulation of hydraulic components for cooling water,	Integral T, Integral XT	LWZ 070
Roller castors (4 pieces, 2 with stoppers)	XT 150, XT 250 W, XT 750, XT 950 W	LWZ 051

Important accessories

Command Remote Control Ex i 10 m Kabel	LRT 915
Command Remote Control Ex i 25 m Kabel	LRT 916
Barrier Box 1 x 4-20 mA	LRT 917
Barrier Box 1 x Pt100	LRT 918
Barrier Box 2 x 4-20 mA	LRT 919
Barrier Box 1 x Pt100,1 x 4-20 mA	LRT 920
Set of cables for Command Remote Control 5 m	EKS 068
Set of cables for Command Remote Control 25 m	EKS 069
High-power pump	all Integral XT except XT 1850 W (S) LWZ 077-1

Metal tubes for process thermostats Integral XT

Designation	Temp.-range °C	suitable for:	Cat.-No.
M30X 100S, M 30 x 1,5 l both sides, 100 cm	-100...350	XT 150...XT 950 W	LZM 091
M30X 200S, M 30 x 1,5 l both sides, 200 cm	-100...350	XT 150...XT 950 W	LZM 092
M30X 300S, M 30 x 1,5 l both sides, 300 cm	-100...350	XT 150...XT 950 W	LZM 093
MXK 100, M 30 x 1,5, l both sides, 100 cm	-90...150	XT 490 W, XT 1590 WS, XT 280	LZM 087
MXK 200, M 30 x 1,5, l both sides, 200 cm	-90...150	XT 490 W, XT 1590 WS, XT 280	LZM 088
MXK 300, M 30 x 1,5, l both sides, 300 cm	-90...150	XT 490 W, XT 1590 WS, XT 280	LZM 089
M38X 100S, M 38 x 1,5 l both sides, 100 cm	-100...350	XT 1850 W (S)	LZM 094
M38X 200S, M 38 x 1,5 l both sides, 200 cm	-100...350	XT 1850 W (S)	LZM 095
M38X 300S, M 38 x 1,5 l both sides, 300 cm	-100...350	XT 1850 W (S)	LZM 096

Bypass

Bypass M 30 x 1,5 l on M 30 x 1,5 A	-40...300	XT 150...XT 950 W	LWZ 046
Bypass M 30 x 1,5 l on M 30 x 1,5 A	-90...220	XT 280, XT 490 W, XT 1590 W	LWZ 089
Bypass M 38 x 1,5 l on M 38 x 1,5 A	-40...300	XT 1850 W (S)	LWZ 071
Further accessories Integral XT on request			
A = thread outside, I = thread inside			

LAUDA Microcool

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
MC 250	-10...40	0.5	-	0.25	4	-	LWM 118
MC 600	-10...40	0.5	-	0.6	8	-	LWM 120
MC 1200	-10...40	0.5	-	1.2	14	-	LWM 121
MC 1200 W	-10...40	0.5	-	1.2	14	-	LWM 122

LAUDA Variocool

Model	Temperature Range °C	Temp. stability ±°C	Heater power kW	Cooling output kW at 20 °C	Filling volume L	Bath opening WxD / depth mm	Cat.-No.
VC 600	-20...40 (80*)	0.2	1,5*	0,6	8	-	LWG 175
VC 1200	-20...40 (80*)	0.2	1,5*	1,2	15	-	LWG 176
VC 1200 W	-20...40 (80*)	0.2	1,5*	1,2	15	-	LWG 182
VC 2000	-20...40 (80*)	0.2	1,5*	2,0	15	-	LWG 177
VC 2000 W	-20...40 (80*)	0.2	1,5*	2,0	15	-	LWG 183
VC 3000	-20...40 (80*)	0.2	1,5*	3,0	33	-	LWG 178
VC 3000 W	-20...40 (80*)	0.2	1,5*	3,0	33	-	LWG 184
VC 5000	-20...40 (80*)	0.2	4,5*	5,0	33	-	LWG 279
VC 5000 W	-20...40 (80*)	0.2	4,5*	5,0	33	-	LWG 285
VC 7000	-20...40 (80*)	0.5	4,5*	7,0	64	-	LWG 280
VC 7000 W	-20...40 (80*)	0.5	4,5*	7,0	64	-	LWG 286
VC 10000	-20...40 (80*)	0.5	7,5*	10,0	64	-	LWG 281
VC 10000 W	-20...40 (80*)	0.5	7,5*	10,0	64	-	LWG 287

* refers to heater option

Options (ex works only)		
Designation	suitable for:	Cat.-No.
Option heater 1	VC 600...VC 3000 W	LWZ 1095
Option heater 2	VC 5000...VC 7000 W	LWZ 2096
Option heater 3	VC 10000...VC 10000 W	LWZ 2097
High-power pump 3,2 bar, flow rate max. 37 L/min**	VC 1200...VC 1200 W	LWZ 1100
High-power pump 4,8 bar, flow rate max. 37 L/min**	VC 1200...VC 1200 W	LWZ 1103
High-power pump 3,2 bar, flow rate max. 37 L/min**	VC 2000...VC 2000 W	LWZ 1101
High-power pump 4,8 bar, flow rate max. 37 L/min**	VC 2000...VC 2000 W	LWZ 1104
High-power pump 4,8 bar, flow rate max. 37 L/min**	VC 3000...VC 3000 W	LWZ 1102
High-power pump 4,8 bar, flow rate max. 37 L/min**	VC 5000...VC 10000 W	LWZ 2105
High-power pump 5 bar, flow rate max. 60 L/min**	VC 5000...VC 10000 W	LWZ 2106
** Using such a pump can change the available cooling capacity		
Option outdoor installation 2	VC 5000...VC 5000 W	LWZ 121
Option outdoor installation 3	VC 7000...VC 7000 W	LWZ 122
Option outdoor installation 4	VC 10000...VC 10000 W	LWZ 123
Option use of deionized water 1	VC 600	LWZ 124
Option use of deionized water 2	VC 1200...VC 2000 W	LWZ 125
Option sound absorption 1	VC 5000...VC 5000 W	LWZ 126
Option sound absorption 2	VC 7000...VC 7000 W	LWZ 127
Option sound absorption 3	VC 10000...VC 10000 W	LWZ 128
Important accessories		
Flow control instrument 1/2"	VC 600...VC 2000 W	LWZ 118
Flow control instrument 3/4"	VC 3000...VC 10000 W	LWZ 119
Set 2-port manifold G 3/4" Variocool	VC 1200...VC 5000 W	LWZ 132
Set 4-port manifold G 3/4" Variocool	VC 1200...VC 5000 W	LWZ 133
Shut-off valve G 3/4" Variocool	VC 1200...VC 5000 W	LWZ 134

LAUDA Add-on coolers

Model	Temperature Range °C	Pump data	Cooling output kW at 20 °C	Bath opening WxD / depth mm	Cat.-No.
Through-flow coolers					
DLK 10 *	-15...150		0.25		LFD 010
DLK 25 *	-30...150		0.33		LFD 108
DLK 45	-40...150		1.10		LFD 109
DLK 45 LiBus	-40...150		1.10		LFD 111
* DLK 10 and DLK 25 without control cable. See page 12 for suitable cables					
Immersion coolers					
ETK 30	-30...20		0,15		LFE 002
ETK 50	-50...20		0,25		LFE 103

LAUDA Heat Transfer Liquids

Designation	Temperature range °C accord. to DIN EN 61010	Packing unit (at 25 °C)	Model
Aqua 90	5...90	5 L 10 L 20 L	LZB 120 LZB 220 LZB 320
Kryo 90	silicone oil (former Kryo 85)	-90...30 with cold liquid overlay up to 140 °C	5 L 10 L 20 L LZB 128 LZB 228 LZB 328
Kryo 70	silicone oil (former Kryo 55)	-70...220 only for systems with cold liquid overlay	5 L 10 L 20 L LZB 127 LZB 227 LZB 327
Kryo 60	silicone oil	-60...80	5 L 10 L 20 L LZB 102 LZB 202 LZB 302
Kryo 51	silicone oil	-50...120	5 L 10 L 20 L LZB 121 LZB 221 LZB 321
Kryo 40		-40...60	5 L 10 L 20 L LZB 119 LZB 219 LZB 319
Kryo 30		-30...90	5 L 10 L 20 L LZB 109 LZB 209 LZB 309
Kryo 20	silicone oil	-20...180	5 L 10 L LZB 116 LZB 216

Therm 160		60...160	20 L	LZB 316
			5 L	LZB 106
			10 L	LZB 206
Therm 180	silicone oil	0...180	20 L	LZB 306
			5 L	LZB 114
			10 L	LZB 214
Therm 240	silicone oil	50...240	20 L	LZB 314
			5 L	LZB 122
			10 L	LZB 222
Ultra 300	silicone oil	80...300	20 L	LZB 322
			5 L	LZB 108
			10 L	LZB 208
Ultra 350		30...200 with cold liquid overlay up to 350 °C	20 L	LZB 308
			5 L	LZB 107
			10 L	LZB 207
			20 L	LZB 307

Water additives

Algicide Aquastab	100 ml	LZB 929
Algicide Aquastab	1 L	LZB 429
Algicide Aquastab	5 L	LZB 129
Decalcifier - citric acid based	5 L	LZB 126

Key for accessory units, components and service products

1 = Aqualine	4 = ECO Heating thermostats	7 = Proline Heating thermostats
2 = Alpha Heating thermostats	5 = ECO Cooling thermostats	8 = Proline Cooling thermostats
3 = Alpha Cooling thermostats	6 = Microcool	Proline Kryomate

Designation	suitable for:	Cat.-No.
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Cooling of heating thermostats

Cooling coils

Cooling coil	2	LCZE004
Cooling coil	4	LCZ 0720
Cooling coil	ET 15 S/G	LCZ 0719

Immersion coolers

ETK 30	2, 4, 7	LFE 002
ETK 50	2, 4, 7	LFE 103

Through-flow coolers

DLK 10 *	2, 4, 7	LFD 010
DLK 25 *	2, 4, 7	LFD 108
DLK 45		LFD 109
DLK 45 LiBus	4, 7	LFD 111
Controlled high-temperature cooling, HTC (300 °C max.)	7	LCZ 9663

* DLK 10 and DLK 25 without control cable. See page 12 for suitable cables

Solenoid valve for cooling water control

Solenoid valve with LiBus-connector (155 °C max.)	7	LCZ 9662
Solenoid valve with LiBus-connector (155 °C max.)	4	LCZ 9664

Level control

Reverse flow protection/shut down valves

Reverse flow protection/shut down valve with LiBus	7, 8	LCZ 9673
Reverse flow protection/shut down valve LiBus (for ECO)	4, 5	LCZ 9674

Level controller

Level controller, mechanical (-30...180 °C)	P 8 (C), RP 845 (C), RP 855 (C)	LCZ 0660
Connection set for ext. inlet and outlet	LCZ 0660	LCZ 0679

Automatic filling device

Automatic filling with LiBus		LCZ 9661
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Plunger

Plunger	P 8 (C), RP 845 / 855 / 870 / 890 (C)	LCZ 0667
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Interface modules, remote controls

Interface modules

Analogue interface	4, 5, 7, 8, 9, 11	LRZ 912
RS 232/485-interface	4, 5, 7, 8, 9, 11	LRZ 913
Contact module NAMUR	4, 5, 7, 8, 9, 11	LRZ 914
Contact module SUB-D socket	4, 5, 7, 8, 9, 11	LRZ 915
Profibus module	4, 5, 7, 8, 9, 11	LRZ 917
Pt100/LiBus module	4, 5, 9	LRZ 918
Ethernet interface	4, 5, 7, 8, 9, 11	LRZ 921

Module box with LiBus	4, 5, 7, 8, 9, 11	LCZ 9727
Remote control Integral T		
Remote control FBT for rack-mounting (without cable)	10	LWZ 028
Housing for FBT	10	LWZ 027
Cable set for FBT, length 5 m	10	EKS 057
as above, length of cable on demand	10	basic price + price per m

Command Remote Control		
Command Remote Control with graphical display, connection to LiBus, incl. 1 m cable		LRT 914
Wall holder for Command Remote Control		LCZ 0659
Command Remote Control Ex i 10 m Kabel		LRT 915
Command Remote Control Ex i 25 m Kabel		LRT 916
Barrier Box 1 x 4-20 mA		LRT 917
Barrier Box 1 x Pt100		LRT 918
Barrier Box 2 x 4-20 mA		LRT 919
Barrier Box 1 x Pt100,1 x 4-20 mA		LRT 920
Set of cables for Command Remote Control 5 m		EKS 068
Set of cables for Command Remote Control 25 m		EKS 069

Temperature probes

Designation	suitable for:	Cat.-No.
Platinum resistance thermometers, stainless steel		
Pt 100-70 (length 25 cm, -200...300 °C), Lemo	connecting cable not included in price except for Pt 100-92 and Pt 100-94 4, 5, 7, 8, 9, 10, 11	ETP 009
Pt 100-72 (length 25 cm, -200...500 °C), Lemo	4, 5, 7, 8, 9, 10, 11	ETP 011
Pt 100-90 (length 8 cm, -100...300 °C), Lemo	4, 5, 7, 8, 9, 10, 11	ETP 050
Pt 100-94 (length 25 cm, -100...200 °C), w. 2 m cable/Lemo	4, 5, 7, 8, 9, 10, 11	ETP 059
Clamping gland Ø 4 mm	Pt100-70/72/90/94	HX 078
Pt 100-80 (length 15 cm, -200...300 °C), Lemo	4, 5, 7, 8, 9, 10, 11	ETP 012
Clamping gland Ø 1,9 mm	Pt100-80	HX 077

Plugs, Connecting cables

Designation	suitable for:	Cat.-No.
Connecting cable (Lemo/Lemo), length 2,5 m from Pt 100 (stainless steel) except Pt 100-94 to units with Pt 100 connection Lemo:	4, 5, 7, 8, 9, 10, 11	UK 246
as above, length of cable on demand, max. 20 m		basic price + price per m
Mains/control cable DLK 10, DLK 25, length 2,5 m	4, 7	UK 263
Plug, 4 pins Preh	Pt 100 connection (flat plug)	EQS 014
Plug, 4 pins Lemo	Pt 100 connection Namur NE 28	EQS 022
Coupler plug, 6 pins	analogue in-/outputs, Namur NE 28	EQS 057
Coupler plug, 3 pins	neutral contact "overall fault" NE 28	EQD 047
Coupler plug, 3 pins	contact input "fault" or "standby" NE 28	EQS 048
Plug, 15 pins	Sub-D (MF), 7, 8	EQM 030
Suitable case	EQM 030	EQG 017
Plug, 9 pins	Sub-D (MF)	EQM 042
Suitable case	EQM 042	EQG 020
T-extender LiBus	4, 5, 7, 8, 9, 11	EKS 073
USB 2.0 cable Mini USB - A plug	4, 5, 9	EKS 089

Bath covers

Designation	suitable for:	Cat.-No.
Alpha bath cover set A 6	A 6	LCZE006
Alpha bath cover set A 12	A 12	LCZE007
Alpha bath cover set A 24	A 24	LCZE008
Bath cover, stainless steel, one piece with handle	E 10, E 15	HDQ 133
Bath cover, stainless steel, one piece with handle	E 20, E 25	HDQ 134
Bath cover, one part with handle	P 40	HDQ 122
Bath cover, one part with handle, for use with rising	P 40	HDQ 138
Bath cover, stainless steel, three pieces, with handle	E 40	LCZ 0718
Bath cover, polymer, one piece with handle	E4 (included)	HDQ 132
Bath cover, three parts with three handles	P 50	LCZ 0696
Bath cover, round with handle	RE 212 J, RE 312 J	LCZ 0691
Bath cover, round with handle	PJ 12 (C), PJL 12 (C)	HDR 028
Bath covers		
Bathcover for inert gas cover	RP 845 (C), RP 855 (C)	LCZ 0675
Bathcover for inert gas cover	RP 1840 (C), RP 1845 (C)	LCZ 0674

Bath covers

Gable cover	ET 20, RE 2025	LCZ 011
Gable cover	E 20, E 25	LCZ 0634
Gable cover (beer forcing test)	RP 3530 (C)	LCZ 0666

Background lighting

BL 15	Viscotemp 15, PV 15, PVL 15	LCZ 9738
BL 24	Viscotemp 24 / 40, PV 24, PVL 24	LCZ 9739
BL 36	PV 36	LCZ 9740
Cable BL - PVS	PV 15, PVL 15, PV 24, PVL 24, PV 36	EKS 097
Window heating system	PVL 15	LCZ 9681
Window heating system	PVL 24	LCZ 9682

Key for accessory units, components and service products

1 = Aqualine	4 = ECO Heating thermostats	7 = Proline Heating thermostats
2 = Alpha Heating thermostats	5 = ECO Cooling thermostats	8 = Proline Cooling thermostats
3 = Alpha Cooling thermostats	6 = Microcool	Proline Kryomate

Designation	Temp.- range °C	suitable for:	Cat.-No.
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Tubing

Polymere tubing *

EPDM tube, 9 mm i.d.	10...90	Thermostats with connector 11 mm	RKJ 111
EPDM tube, 12 mm i.d.	10...90	2...9	RKJ 112
EPDM tube, 14 mm i.d.	10...120	7, 8	RKJ 103
Silicone tube, 4 mm i.d.	10...100	Thermostats with reducing connector	RKJ 041
Silicone tube, 8 mm i.d.	10...100		RKJ 016
Silicone tube, 11 mm i.d.	10...100	2...9	RKJ 059
Silicone tube, 14 mm i.d.	10...100	7, 8	RKJ 070
Viton tube, 8,5 mm i.d.	10...200	connectors Ø 11 mm	RKJ 022
Viton tube, 11 mm i.d.	10...200	connectors Ø 13 mm	RKJ 091

Insulated polymere tubing *

EPDM tube, 9 mm i.d., 9 mm insulation	-35...90	Thermostats with connector 11 mm	LZS 019
EPDM tube 9 mm i.d., 19 mm insulation	-35...90	Thermostats with connector 11 mm	LZS 020
EPDM tube, 12 mm i.d., 9 mm insulation	-35...90	2...9	LZS 021
EPDM tube 12 mm i.d., 19 mm insulation	-35...90	2...9	LZS 022
EPDM tube, 14 mm l. W., 9 mm insulation	-40...120	7, 8	LZS 023
Silicone tube, 8 mm i.d., 9 mm insulation	-60...100	Thermostats with connector 11 mm	LZS 001
Silicone tube, 11 mm i.d., 9 mm insulation	-60...100	2...9	LZS 007
Silicone tube, 14 mm i.d., 9 mm insulation	-60...100	7, 8	LZS 011
Silicone tube 8 mm i.d., 19 mm insulation	-90...100	Thermostats with connector 11 mm	LZS 002
Silicone tube 11 mm i.d., 19 mm insulation	-90...100	2...9	LZS 009
Silicone tube 14 mm i.d., 19 mm insulation	-90...100	7, 8	LZS 012
Viton tube, 8,5 mm i.d., 9 mm insulation	-20...150	connectors Ø 11 mm	LZS 017
Viton tube, 11 mm i.d., 9 mm insulation	-20...150	connectors Ø 13 mm	LZS 018

* EPDM tube not for Ultra 350 and not for mineral oils silicone tube not for silicone oil

Insulation tubes to fit on uninsulated tubes

Insulation tube, 9 mm wall thickness, 12 mm inner Ø	RKJ 016, RKJ 022, RKJ 111	RKJ 008
Insulation tube, 9 mm wall thickness, 15 mm inner Ø	RKJ 059, RKJ 091, RKJ 112	RKJ 024
Insulation tube, 9 mm wall thickness, 18 mm inner Ø	RKJ 070	RKJ 030
Insulation tube, 19 mm wall thickness, 12 mm inner Ø	RKJ 016, RKJ 022, RKJ 111	RKJ 023
Insulation tube, 19 mm wall thickness, 15 mm inner Ø	RKJ 059, RKJ 091, RKJ 112	RKJ 064
Insulation tube, 19 mm wall thickness, 18 mm inner Ø	RKJ 070	RKJ 058
Insulation tube, 55,5-57 mm wall thickn., 19 mm inner Ø	LZM 081, LZM 082, LZM 083	RKJ 097

Tube clips

Stainless steel tube clip	Tubes with outer Ø of 10-16 mm	EZS 012
Tube clip	Tubes with outer Ø of 16-27 mm, 1/2"	EZS 032

Metal tubes (corrugated stainless steel tube)

MC 50, 50 cm, M 16 x 1	10...400	7, 8 (M 16 x 1)	LZM 040
MC 100, 100 cm, M 16 x 1	10...400	7, 8 (M 16 x 1)	LZM 041
MC 150, 150 cm, M 16 x 1	10...400	7, 8 (M 16 x 1)	LZM 042
MC 200, 200 cm, M 16 x 1	10...400	7, 8 (M 16 x 1)	LZM 043
MK 50, 50 cm, M 16 x 1, insulated	-90...150	7, 8 (M 16 x 1)	LZM 052
MK 100, 100 cm, M 16 x 1, insulated	-90...150	7, 8 (M 16 x 1)	LZM 053
MK 150, 150 cm, M 16 x 1, insulated	-90...150	7, 8 (M 16 x 1)	LZM 054

MK 200, 200 cm, M 16 x 1, insulated	-90...150	7, 8 (M 16 x 1)	LZM 055
MC 50 S, 50 cm, M 16 x 1, insulated	-60...350	7, 8 (M 16 x 1)	LZM 046
MC 100 S, 100 cm, M 16 x 1, insulated	-60...350	7, 8 (M 16 x 1)	LZM 047
MC 150 S, 150 cm, M 16 x 1, insulated	-60...350	7, 8 (M 16 x 1)	LZM 048
MC 200 S, 200 cm, M 16 x 1, insulated	-60...350	7, 8 (M 16 x 1)	LZM 049

Metal tubes for process thermostats Integral T

MTK 100, 100 cm G 3/4", DN 20	-50...150	T 1200...T 4600 W	LZM 075
MTK 200, 200 cm G 3/4", DN 20	-50...150	T 1200...T 4600 W	LZM 076
MTK 101, 100 cm G 1"-G11/4", DN 25	-50...150	T 7000...T 10000 W	LZM 078
MTK 201, 200 cm G 1"-G11/4", DN 25	-50...150	T 7000...T 10000 W	LZM 079

Tubing

Designation	Temp.- range °C	suitable for:	Cat.-No.
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Metal tubes for process thermostats Integral XT

M30X 100S, M 30 x 1,5 l both sides, 100 cm	-100...350	XT 150...XT 950 W	LZM 091
M30X 200S, M 30 x 1,5 l both sides, 200 cm	-100...350	XT 150...XT 950 W	LZM 092
M30X 300S, M 30 x 1,5 l both sides, 300 cm	-100...350	XT 150...XT 950 W	LZM 093
MXK 100, M 30 x 1,5, l both sides, 100 cm	-90...150	XT 490 W, XT 1590 WS, XT 280	LZM 087
MXK 200, M 30 x 1,5, l both sides, 200 cm	-90...150	XT 490 W, XT 1590 WS, XT 280	LZM 088
MXK 300, M 30 x 1,5, l both sides, 300 cm	-90...150	XT 490 W, XT 1590 WS, XT 280	LZM 089
M38X 100S, M 38 x 1,5 l both sides, 100 cm	-100...350	XT 1850 W (S)	LZM 094
M38X 200S, M 38 x 1,5 l both sides, 200 cm	-100...350	XT 1850 W (S)	LZM 095
M38X 300S, M 38 x 1,5 l both sides, 300 cm	-100...350	XT 1850 W (S)	LZM 096

Polymere tubing (EPDM)

EPDM tube, 14 mm i.d.	-40...120	7, 8, 11 , T 1200...T 4600 W max. 9 bar	RKJ 103
Rubber tube 3/4", fiber strengthened	-40...120	11 , T 1200...T 4600 W max. 9 bar	RKJ 104
Rubber tube 1", fiber strengthened	-40...120	11 , T 7000...T 10000 W max. 3 bar	RKJ 105

Cooling water tubes

Rubber tube 1/2", fiber strengthened	-40...100	XT 250 W...XT 950 W, 6, 9 ,	RKJ 031
Rubber tube 3/4", fiber strengthened	-40...100	6, 9 , XT 250 W...XT 950 W, XT 1590 W,	RKJ 032
Rubber tube 1", fiber strengthened	-40...100	9 , XT 1850 W, T 7000, T 10000 W,	RKJ 033

Insulation tubing

Insulation tube, 9 mm wall thickn. for 1/2" tube	-50...105	RKJ 031, RKJ 103	RKJ 009
Tube clip		RKJ 031, RKJ 103	EZS 032
Insulation tube, 9 mm wall thickn. for 3/4" tube	-50...105	RKJ 032, RKJ 104	RKJ 013
Tube clip 3/4"		RKJ 032, RKJ 104	EZS 015
Insulation tube, 9 mm wall thickn. for 1" tube	-50...105	RKJ 033, RKJ 105	RKJ 017
Tube clip 1"		RKJ 033, RKJ 105	EZS 016

Connectors

Designation	suitable for:	Cat.-No.
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Connectors

Connector for M 14 x 1,5	all thermostats with thread M 14 x 1,5	HKO 009
Connector 8,5 mm for M 16 x 1	all thermostats with thread M 16 x 1	HKO 061
Connector 11 mm for M 16 x 1	all thermostats with thread M 16 x 1	HKO 025
Connector 13 mm for M 16 x 1	all thermostats with thread M 16 x 1	HKO 026
Angle connector 90°, 1x screw cap M 16 x 1	all thermostats with thread M 16 x 1	HKA 073
Connector 1/2" with screw cap G 3/4	9 , T 1200...T 4600 W	LWZ 016
Connector 10 mm with screw cap G 3/4	9 , T 1200...T 4600 W	LWZ 040
Olive, 4 mm outer Ø		HKO 018
Olive 1/2" with spherical liner for M 30 x 1,5	XT 150...1590 WS	HKA 161
Olive 1" with spherical liner M 38 x 1,5	XT 1850 W(S)	HKA 168
Olive 3/4" with spherical liner for M 30 x 1,5	XT 150...1590 WS	HKA 162
Ball valve M 16 x 1 inside to M 16 x 1 outside	-30 ... 180 °C	LWZ 047
Ball Valve M 30 x 1,5 l to M 30 x 1,5 A	-30 ... 180 °C	LWZ 073
Ball valve M 38 x 1,5 l to M 38 x 1,5 A	-30 ... 180 °C	LWZ 074

Fast couplings for cooling water connection

Fast coupling 3/4"	EOA 007	EOA 006
Connector for 1/2" tube	EOA 006	EOA 007
Connector G 1" thread inside	EOA 026	EOA 027
Connector for 3/4" tube	EOA 027	EOA 026
Tube connector, 8-11 mm to 4-7 mm, max. 100 °C	2, 3	EOA 032

Screw caps

Screw cap M 16 x 1	HKM 032
Screw cap M 14 x 1,5	HKM 045
Screw cap M 19 x 1,5	HKM 024

Screw cap M 30 x 1,5	XT 150...XT 1590 WS	EOV 196
Screw cap M 38 x 1,5	XT 1850 W (S)	EOV 197
Solder connector M 30 x 1,5 A	XT 150...XT 1590 WS	HKN 232
Solder connector M 38 x 1,5 A	XT 1850 W (S)	HKN 239

Connectors

Designation	suitable for:	Cat.-No.
Metal hose connectors		
Connector 11 mm, male thread M 14 x 1,5		HKA 007
Connector 11 mm, male thread M 16 x 1		HKA 066
Connector 13 mm, male thread M 16 x 1		HKA 052
Manifold connectors -10...100 °C, for water/glycol, not for use with silicone oil		
4 x outflow, 4 x return	T 1200...T 4600 W	LWZ 010
Four-port manifold connector, as above	T 1200...T 4600 W	LWZ 022
Four-port manifold connector, as above	T 1200...T 4600 W	LWZ 039
Four-port manifold connector, as above	T 7000...T 10000 W	LWZ 024
Manifold connectors for temperature range -30...150 °C, for use with silicone oil, glycol/water		
4 x outflow, 4 x return with separately	T 1200...T 4600 W	LWZ 075
Four-port manifold connector, as above	T 7000...T 10000 W	LWZ 082
Four-port manifold connector, as above	T 1200...T 4600 W	LWZ 084
Four-port manifold connector, as above	T 1200...T 4600 W	LWZ 085
Y-manifold, 1x screw cap M 14 x 1,5, 2x male threads M 14 x 1,5		HOR 026
Y-manifold, 1x screw cap M 16 x 1, 2x male threads M 16x 1		HKA 077
Adapters		
Adapter from M 14 x 1,5 to male thread M 16 x 1, with screw cap		HKA 068
Adapter from M 16 x 1 to male thread M 14 x 1,5		HKN 059
Adapter from M 16 x 1 to male thread NPT 1/4"		HKA 107
Adapter from M 16 x 1 to male thread G 3/8"		HKA 058
Adapter from G 3/4 to male thread M 16 x 1		LWZ 037
Spherical liner, with EOV 197 for connection	XT 1850 W (S)	EOV 213
Spherical liner, with EOV 196 for connection	XT 150...XT 1590 WS	EOV 204
Solder connector M 38 x 1,5 A	XT 1850 W (S)	HKN 239
Reducer, from M 30 x 1,5 I to M 16 x 1 A	XT 150...XT 1590 WS	UD 660
Reducer M 38 x 1,5 I to M 30 x 1,5 A	XT 1850 W (S)	UD 663
Reducer, from M 16 x 1 A - spherical liner RD=22	XT 150...XT 1590 WS	HKA 149
Reducer, M 30 x 1,5 A to M 16 x 1 I	XT 150...XT 1590 WS	HKA 152
Angle connector, M 30 x 1,5 I to M 30 x 1,5 A	XT 150...XT 1590 WS	HKA 153
Flange adapter, M 30 x 1,5 A auf DIN 2633/DN25	XT 150...XT 1590 WS	HKA 156
Reducer, M 30 x 1,5 A - spherical liner RD = 28	XT 1850 W (S)	HKA 160
Flange adapter, M 38 x 1,5 A to DIN 2633/DN40	XT 1850 W (S)	HKA 163
Reducer, M 38 x 1,5 A to M 30 x 1,5 I	XT 1850 W (S)	HKA 164
Angle adapter from M 16 x 1 to male thread M 16 x 1, with screw cap		HKA 063
Adapter M 30 x 1,5 I to thread 3/4" A		HKA 170
Adapter M 30 x 1,5 I to NPT 3/4" A		HKA 172
Adapter M 38 x 1,5I to G1" A		HKA 189
Double connectors		
M 14 x 1,5, 2x male threads		HKN 046
M 16 x 1, 2x male threads		HKN 086
M 19 x 1,5, 2x male threads		HKN 054
M 16 x 1 to G 1/4" male thread		HKN 107
M 16 x 1 to NPT 1/4" male thread		HKA 106
M 16 x 1 to G 3/8" male thread		HKN 195
M 16 x 1 to G 1/2" male thread		HKN 140
G 3/8" x G 3/4" male thread		HKN 244
M 30 x 1,5		EOV 208
M 38 x 1,5		EOV 225
Screw-in studs		
M 30 x 1,5 A on thread 3/4" A		EOV 194
M 38 x 1,5 on thread 1" A		EOV 195
M 30 x 1,5 A on thread 1" A		EOV 206
M 30 x 1,5 A on NPT 3/4" A		EOV 207
M 38 x 1,5 on thread 1 1/4"		EOV 223
M 38 x 1,5 on NPT 1"		EOV 224

A = thread outside, I = thread inside

Connectors

Designation	suitable for:	Cat.-No.
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Additional small parts

Stopper M 16 x 1, V2A	Screw caps M 16 x 1	HKN 065
Solder connector, male thread M 16 x 1	Metal tubes with screw caps M 16 x 1	HKN 062
Solder connector, male thread M 16 x 1	Metal tubes with screw caps M 16 x 1	HKN 088
Solder connector, male thread M 16 x 1	Metal tubes with screw caps M 16 x 1	HKN 089
Solder connector, male thread M 14 x 1,5	Metal tubes with screw caps M 14 x 1,5	HKN 020
Solder connector, male thread M 16 x 1	Metal tubes with screw caps M 16 x 1	HKN 066
Solder connector, male thread M 19 x 1,5	Metal tubes with screw caps M 19 x 1,5	HKA 045
Connector with collar for screw cap M 14 x 1,5	Metal tubes with screw caps M 14 x 1,5	HKN 005
Connector with collar for screw cap M 16 x 1	Metal tubes with screw caps M 16 x 1	HKN 064
Connector with collar for screw cap M 19 x 1,5	Metal tubes with screw caps M 19 x 1,5	HKN 006
Screw-cap M 38 x 1,5 A; PE-LD yellow		EZV 129
Protective sleeve G3/4"; PE-LD natural		EZV 131
Stopper M 30 x 1,5 A; PE-HD yellow		EZV 132
Stopper M 38 x 1,5 A; PE-HD yellow		EZV 133

Racks, rising platforms

Designation	suitable for:	Cat.-No.
ID: Immersion depth		
Polycarbonate insert racks up to 100 °C		
RK 075, for 30 tubes, Ø 13/14 mm, 40 mm ID	ET 6, RE 415, RE 420	UE 023
RK 100, for 20 tubes, Ø 14-18 mm, 70 mm ID	ET 6, RE 415, RE 420	UE 022
RK 160, for 20 tubes, Ø 14-18 mm, 100 mm ID	ET 6, RE 415, RE 420	UE 020
Test tube racks, polypropylene, up to 95 °C		
Rack, white, for 21 tubes, PP, Ø 30 mm	3 x A 24, 2 x RA 12, 3 x RA 24	UE 041
Rack, white, for 24 tubes, PP, Ø 25 mm	like UE 041	UE 040
Rack, white, for 40 tubes, PP, Ø 20 mm	like UE 041	UE 039
Rack, white, for 60 tubes, PP, Ø 16 mm	like UE 041	UE 042
Rack, white, for 90 tubes, PP, Ø 13 mm	like UE 041	UE 037
Rack, yellow, for 21 tubes, PP, Ø 30 mm	like UE 041	UE 047
Rack, yellow, for 24 tubes, PP, Ø 25 mm	like UE 041	UE 046
Rack, yellow, for 40 tubes, PP, Ø 20 mm	like UE 041	UE 045
Rack, yellow, for 60 tubes, PP, Ø 16 mm	like UE 041	UE 048
Rack, yellow, for 90 tubes, PP, Ø 13 mm	like UE 041	UE 043
Stainless steel insert racks up to 100 °C		
Rack for 74 Eppendorf tubes	1 x ET 6	UG 085
Rack for 42 Eppendorf tubes	1 x RE 415/420/620/630	UE 028
RN 13/1, for 15 tubes, Ø 10-13 mm, 80 mm ID	1 x E 4, 2 x AL 5, 1 x A 6, 2 x A 12, 6 x A 24, 1 x	UE 033
RN 18/3, for 11 tubes, Ø 14-18 mm, 80 mm ID	like UE 033	UE 034
RN 18/4, for 11 tubes, Ø 14-18 mm, 110 mm ID	like UE 033	UE 035
RN 30/1, for 4 tubes, Ø 24-30 mm, 110 mm ID	like UE 033	UE 036
RN 13, for 91 tubes, Ø 10-13 mm, 80 mm ID	1 x AL 12, E 20, A 24/RA 24	UE 029
RN 18/1, for 45 tubes, Ø 14-18 mm, 80 mm ID	like UE 029	UE 030
RN 18/2, for 45 tubes, Ø 14-18 mm, 110 mm ID	like UE 029	UE 031
RN 30, for 15 tubes, Ø 24-30 mm, 110 mm ID	like UE 029	UE 032
RQ 13, for 36 tubes, Ø 10-13 mm, 80 mm ID	1 x AL 12, 2 x RE 1050/ RE 1225,	UG 105
RQ 18/1, for 21 tubes, Ø 14-18 mm, 80 mm ID	like UG 105	UG 106
RQ 18/2, for 21 tubes, Ø 14-18 mm, 110 mm ID	like UG 105	UG 107
RQ 30, for 10 tubes, Ø 24-30 mm, 110 mm ID	like UG 105	UG 108

Racks, rising platforms

Designation	suitable for:	Cat.-No.
Stainless steel racks up to 300 °C		
RD 13, for 56 tubes, Ø 10-13 mm, 80 mm ID	2 x A 24/RA 12/RA 24, 2 x ET 12, 4 x ET 20,	UG 066
RD 18/1, for 33 tubes, Ø 14-18 mm, 80 mm ID	like UG 067	UG 067
RD 18/2, for 33 tubes, Ø 14-18 mm, 110 mm ID	like UG 067	UG 068
RD 30, for 14 tubes, Ø 24-30 mm, 110 mm ID	like UG 067	UG 069
Test tube racks stainless steel up to 150 °C		
Test tube rack for 12 tubes, Ø 20 mm, (180x60x80 mm)	2 x A 12, 6 x A 24, 1 x RA 12, 6 x RA 24	UE 038
RE 13, for 56 tubes, Ø 10-13 mm, 80 mm ID	4 x E 40, 2 x P 18 (C), 4 x P 26 (C), 2 x A 24	UG 070
RE 18/1, for 33 tubes, Ø 14-18 mm, 80 mm ID	5 x E 40, 2 x P 18 (C), 4 x P 26 (C), 2 x A 24	UG 071

RE 18/2, for 33 tubes Ø 14-18 mm, 110 mm ID	6 x E 40, 2 x P 18 (C), 4 x P 26 (C), 2 x A 24	UG 072
RE 30, for 14 tubes, Ø 24-30 mm, 110 mm ID	7 x E 40, 2 x P 18 (C), 4 x P 26 (C), 2 x A 24	UG 073
RF 18/1, for 20 tubes, Ø 14-18 mm, 80 mm ID	1 x RE 620, RE 630	UG 074
RF 18/2, for 20 tubes, Ø 14-18 mm, 110 mm ID	1 x RE 620, RE 630	UG 075
RG 18/1, for 20 tubes, Ø 14-18 mm, 80 mm ID	1 x A 12, 4 x A 24	UG 076
RG 18/2, for 20 tubes, Ø 14-18 mm, 110 mm ID	1 x P 8 (C), P 12 (C), RP 845 (C) like UG 076	UG 077

Racks for calibration thermostats

Rotorack for 12 tempering objects up to Ø 12 mm, adjustable in	PJ 12 (C), PJL 12 (C)	UG 109
Rotorack for 18 tempering objects up to Ø 11 mm, adjustable in	1 x RE 212 J, RE 312 J	UG 110
Rotorack for 20 tempering objects up to Ø 10 mm, adjustable in	1 x RE 212 J, RE 312 J	UG 111
Rotorack for 15 tempering objects up to Ø 12 mm, adjustable in	PJ 12 (C), PJL 12 (C)	UG 112

Platforms and rising platforms

Rising platform, 8 steps, dimensions 140 x 270 mm	1 x ET 12, ET 20, E 10, E 20, E 25,	LCZ 0635
Rising platform, 8 steps, dimensions 115 x 70 mm	1 x E 4, RE 415, RE 420,-2 x A 12, 6 x A 24	LCZ 0645
Rising platform, 8 steps, dimensions 110 x 260 mm	1 x ET 6, 2 x A 24	LCZ 0648
Rising platform, 8 steps, dimensions 140 x 270 mm	1 x AL 12, 2 x AL 18, AL 25, 2 x A 24	LCZ 0689

Rising platform, stepless height adjustment	1 x P 18 (C), 2 x P 26 (C)	LCZ 012
Rising platform, stepless height adjustment	1 x ET 12, 2 x ET 20	LCZ 016
Rising platform, stepless height adjustment	1 x RP 1840 (C), 2 x RP 3530 (C)	LCZ 0664
Rising platform, stepless height adjustment	1 x RP 1845 (C)	LCZ 0665
Rising platform, stepless height adjustment	P 40	LCZ 0714
Rising platform, stepless height adjustment	P 50	LCZ 0688

Accessories for notch bending tests

Insert basket	RP 870, RP 890, RP 855, RP 845	LCZ 0658
Insert basket	RP 3090 C (W), RP 3050 C (W)	LUZ 008
Insert basket	RP 4090 C (W), RP 4050 C (W)	LUZ 009
Insert basket	RP 1290 (C)	LCZ 0694

Accessories for pour point determination

Bath cover to take 16 metal beakers for pour point determination	RP 4050 C (W), RP 4090 C (W)	UP 065
Bath cover as above, but for 2 metal beakers	RP 870, RP 845, RP 855	LCZ 0692
Bath cover as above, but for 2 metal beakers	RP 890	LCZ 0693
Glass vessel	EU 034	EGG 009
Metal beaker to take glass vessel EGG 009	LCZ 0692, 0693	EU 034

Equipment trolley and socle with castors

Designation	suitable for:	Cat.-No.
Adapterset for castors (2 blockers)	RP 855 / 870 / 890 / 1290 / 1845 (C)	LCZ 0669
Adapterset for castors (4 blockers)	RP 855 / 870 / 890 / 1290 / 1845 (C)	LCZ 0672

LAUDA Service products

1 = Aqualine	4 = ECO Heating thermostats	7 = Proline Heating thermostats
2 = Alpha Heating thermostats	5 = ECO Cooling thermostats	8 = Proline Cooling thermostats
3 = Alpha Cooling thermostats	6 = Microcool	Proline Kryomate

Designation	suitable for:	Cat.-No.
Calibration *		
Calibration of new device, one temperature point,	4, 5, 7, 8, 10	SDK 001
Calibration of used device, one temperature point,	4, 5, 7, 8, 10	SDK 002
Circulation chiller included for calibration	4, 5, 7, 8, 10	SDK 003
Additional temperature point for calibration	4, 5, 7, 8, 10	SDK 004

* Prices ex works, including a factory calibration certificate. Used bath liquids are provided free of charge.

On site services (only for Germany) **

Maintenance heating thermostats	SDW 001
Maintenance cooling thermostats and circulation chillers	SDW 002
Maintenance Integral T, XT process thermostats	SDW 003
Initial start-up service heating thermostats	SDI 001
Initial start-up service cooling thermostats and circulation chillers	SDI 002
Inbetriebnahme Prozessthermostate Integral T, XT	SDI 003

** Prices for on-site service executed by qualified LAUDA personnel, including all travel costs.

Rental devices (only Germany) ***

Rental cooling thermostat ECO RE 415 G	SMK 001
Rental cooling thermostat ECO RE 630 G	SMK 002
Rental heating thermostat P 8 C	SMB 002
Rental cooling thermostat RP 845 C	SMK 003
Rental circulation chiller VC 2000	SMW 002

*** Depending on availability, prices including shipping cost and packaging, per calendar day; return shipping to the account of the customer.

LAUDA Software

Software

Wintherm Plus control software
incl. set of cables, length 2 m; for DCM 2 cable set
Serial cable RS 232, D-Sub 9 Pin on D-Sub 9 Pin
Cable set for FBT, length 5 m

suitable for:

4, 5, 7, 8, 9, 10, 11

Thermostat-PC SUB-D (9 pin - 9 pin)
Thermostat-PC SUB-D (9 pin - 9 pin)

Cat.-No.

LDSM2002

EKS 037

EKS 057