

Water Baths with Timer



Type MWB

Stainless steel baths with volumes from 2 to 80 litres

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Water Bath MWB 5
with inclined stainless steel cover



Water Bath MWB 20
with inclined stainless steel cover



Water Bath MWB 80
with inclined stainless steel cover

Technical Data

		MWB 5	MWB 10	MWB 20	MWB 30	MWB 40	MWB 55	MWB 80
article - no.:		A-10734	A-10732	A-10736	A-11139	A-10737	A-11140	A-10738
admissible ambient temp.	°C	1 ... 40	1 ... 40	1 ... 40	1 ... 40	1 ... 40	1 ... 40	1 ... 40
working temperature range	°C	25 ... 100	25 ... 100	25 ... 100	25 ... 100	25 ... 100	25 ... 100	25 ... 100
temperature stability	K	± 0,2	± 0,2	± 0,2	± 0,2	± 0,2	± 0,2	± 0,2
temperature homogeneity	K	< 0,5	< 0,5	< 0,5	< 0,5	< 0,5	< 0,5	< 0,5
heating time (20 auf 70°C)	min/l	<4,5	<2,8	<1,8	<1,6	<1,6	<1,8	<1,6
heat loss	W/h	<65	<80	<100	<115	<115	<125	<125
bath volume	l	2 - 6	4 - 10	6 - 20	10 - 30	15 - 35	15 - 55	20 - 80
bath opening	mm	215 x 230	390 x 230	455 x 230	480 x 340	845 x 230	680 x 350	620 x 420
bath depth	mm	120	120	170	140	170	190	300
temperature display		LED	LED	LED	LED	LED	LED	LED
resolution	K	1	1	1	1	1	1	1
temperature setting		digital	digital	digital	digital	digital	digital	digital
resolution	K	0,1	0,1	0,1	0,1	0,1	0,1	0,1
safety class		1	1	1	1	1	1	1
heat power	KW	1,0	1,6	2,0	2,0	2,6	2,6	2,6
power supply	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50
dimensions (wxdxh)	mm	240 x 240 x 220	490 x 340 x 220	550 x 340 x 290	580 x 450 x 200	940 x 340 x 290	780 x 460 x 260	730 x 530 x 450
weight ca.	kg	7,5	10	12,5	17,5	21	25	33

Temperature Controller

- ›micro- processor - controlled PID-regulator
- ›three fixed temperatures adjustable
- ›adjustable lower and upper set point limit
- ›adjustable button locking
- ›visual and/or acoustic limiting value of alarm, alarm function can be switched off,alarm of temperature sensor can't be switched off
- ›temperature setting in Celsius or Fahrenheit

Timer

- ›three fixed adjustable times
- ›timer adjustable within 0 - 99,99 minutes

Safety Function

- ›dry-going-protection' integrated in the heater security class 1...

Outlet

- ›with seal screw / drain cock possible

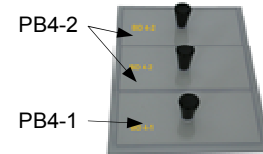
Accessories for Thermostats



Stainless steel vessel (e.g. EB 23)



Polycarbonate bath (e.g. PB 8)



Bath cover PB (BD4-1 / BD 4-2)

Bath vessels made of high-grade steel (without bath cover)

Item No.:	Type	Description	bath opening (wxdxh)	Application...
A –10816	ETB 3	3 Litre Stainless steel vessel	only ext. temperature	all T – Thermostats
A –10817	ETB 5	5 Litre Stainless steel vessel	115 x 115 x 150 mm	all T – Thermostats
A –10818	EB 7	7 Litre Stainless steel vessel	230 x 75 x 150 mm	all T and TC – Thermostats
A –10819	EB 13	13 Litre Stainless steel vessel	230 x 270 x 150 mm	all T and TC – Thermostats
A –10820	EB 18	18 Litre Stainless steel vessel	230 x 270 x 200 mm	all T and TC – Thermostats
A –10821	EB 23	23 Litre Stainless steel vessel	230 x 270 x 250 mm	all T and TC – Thermostats

Bath vessels, transparent (without bath cover and without supporting plate)

All Polycarbonate baths max. +100°C.

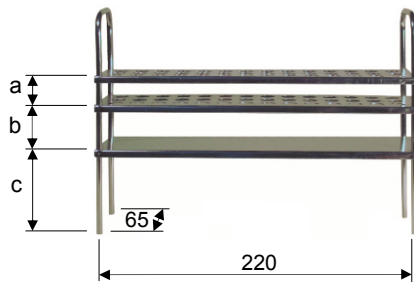
Item No.:	Type	Description	bath opening (wxdxh)	Application...
A –10852	PB 4	4 Litre Stainless steel vessel	140 x 70 x 145 mm	all T – Thermostats
A –10853	PB 6	6 Litre Stainless steel vessel	140 x 140 x 145 mm	all T – Thermostats
A –10854	PB 8	8 Litre Stainless steel vessel	140 x 210 x 145 mm	all T – Thermostats
A –10855	PB 10	10 Litre Stainless steel vessel	140 x 280 x 145 mm	all T – Thermostats
A –10856	PB 12	12 Litre Stainless steel vessel	140 x 350 x 145 mm	all T - Thermostats

Accessories for bath thermostats

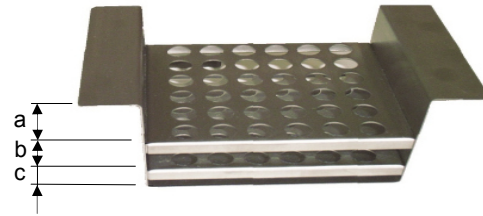
Item No.:	Type	Description / Features	Application...
A –10752	AH	Drain cock	ETB3 to EB23
A –10838	TF	Pt100 temperature sensor	T 200, TC 250
A –10839	BD 3	Bath cover 3	ETB 3
A –10840	BD 5	Bath cover 5	ETB 5
A –10841	BD 4-1	Bath cover 4-1	PB4 – PB12
A –10841	BD 4-2	Bath cover 4-2	PB6 – PB12
A –10842	BD 7	Bath cover 7	EB 7
A –10843	BD 13	Bath cover 13	EB13 – EB23
A –10844	KE 1	Cooling coil	T 100, T 150, T 200
A –10845	AS	Connecting piece for external user	T 100, T 150, T 200
A –10846	BV	Adjustable bath bridge (high-grade steel)	TC 150, TC 250
A –10847	ST	Adjustable stand	TC 150, TC 250
A –10848	SW	Software for T 200, TC 250	T 200, TC 250
A –10849	SK	Null modem cable	T 200, TC 250
A –10850	KL	Clamp	T 100, T 150, T 200
A –10851	HB	Adjustable lifting bottom	EB13 to EB23

Test Tube Racks

for Thermostat-/Bath Combinations EB7 ... EB18; PB4 ... PB12



for EB 7 ... EB 18



for PB 4 ... PB 12

for baths made of stainless steel

Item No.:	Type	Dimensions in mm			Capacity of Tubes		Max. quantity of racks per device				
		a	b	c	St.	max. Ø	EB 7	EB 13	EB 18	-	-
A -10827	RG 6.10,5	20	30	85	56	10,5	1	4			
A -10828	RG 6.11,5	15	20	80	56	11,5	1	4			
A -10829	RG 6.14,5	50	30	35	33	14,5	1	4			
A -10830	RG 6.18,5	50	30	35	18	18,5	1	4			
A -10831	RG 6.32	50	30	35	6	32	1	4			
A -10832	RG 16.10,5	20	30	105	56	10,5			4		
A -10833	RG 16.11,5	15	20	120	56	11,5			4		
A -10834	RG 16.14,5	50	30	75	33	14,5			4		
A -10835	RG 16.18,5	50	30	75	18	18,5			4		
A -10836	RG 16.32	50	30	75	6	32			4		

for baths made of polycarbonate

Item No.:	Type	Dimensions in mm			Capacity of Tubes		Max. quantity of racks per device				
		a	b	c	St.	max. Ø	PB 4	PB 6	PB 8	PB 10	PB 12
A -11063	RGK 18	33	25	17	10	18,5	1	2	3	4	5
A -11062	RGK 14	33	25	17	14	14,5	1	2	3	4	5
A -11061	RGK 13	48	25	17	18	13,5	1	2	3	4	5
A -11059	RGK 11	33	25	17	18	11,5	1	2	3	4	5
A -11064	RGK 32	35	65	20	3	32	1	2	3	4	5

Liquids for thermostat- and cryostat baths

Item No.:	Type	Description
K -14357	TF 30	Temperature range -30°C to + 85°C
K -14358	TF 60	Temperature range -60°C to + 5°C
K -14359	TF 100	Temperature range -40°C to +100°C
K -14360	TF 140	Temperature range 0°C to +140°C
K -14361	TF 250	Temperature range -30°C to +250°C

Immersion Thermostat

Series T100.....T200



T 100



T 150



T 200

Technical Data

		T 100	T 150	T 200
Item-No.:		A-10772	A-10773	A-10774
Temperature range with cooling	°C	25 ... 100	25 ... 100	30 ... 200 ⇒short-time to 250 °C
Temperature range with cooling (with external cooling)	°C	-30 ...100	-50 ...100	-60... 200 ⇒short-time to 250 °C
Resolution	K	0,1	0,1	±0,01 (at 70°C in water)
Pump - Flow rate	l/min	5	5	8
Pump - Pressure:	bar	0,12	0,12	0,2
Heat power	kW	1,0	1,8	1,8
Temperature scale	K	LED / 0,1	LED / 0,1	digital, graphic display / 0,1
Temperature setting	K	Digital / 0,1	Digital / 0,1	digital, Touch Panel / 0,1
Timer with alarm	min	0 - 99,99	0 - 99,99	
Temperature controller		adjustable set point limitation and alarm	adjustable set point limitation and alarm	-
Calibration / Resolution	K	-	-	„SET“-temperature (standard 70°C) / 0,1
Programmes		-	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3
Power supply	V/Hz	230/50	230/50	230 / 50/60
Dimensions (w x d x h)	mm	120 x 130 x 330	120 x 130 x 335	120 x 130 x 335
Weight	kg	3	3	3
Interface		-	-	RS 232 (V.24)
External sensor		-	-	connection socket (Pt 100 in four-wire circuit)
Internal Device monitoring with error message		.	.	empty bath vessel
		.	.	exceeding temperature
		.	.	error temperature sensor
		.	..	error software and hardware

The thermostats be can ordered as a single device with clip, but also in combination with Polycarbonate or stainless steel baths.

Bath-/ Circulation Thermostat

construction TC



TC 150

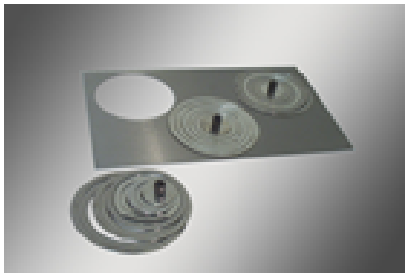


TC 250

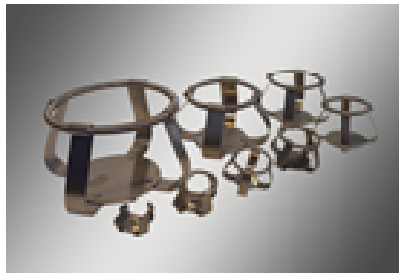
Technical Data

		TC 150 mit Timer	TC 250
Item-No.:		A-10805	A-10806
Temperature range with cooling	°C	ca. 30 ... 150	ca. 30 ... 250
Temperature range with cooling (with external cooling)	°C	-50 ... 150	- 60 ... 250
Resolution	K	± 0,1	±0,01 (at 70°C in water)
Pump - Flow rate	l/min	20 / 18	20 / 18
Pump - Pressure:	bar	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature scale	/ K	digital / 0,1	digital, graphic display / 0,1
Temperature setting	/ K		digital, Touch Panel / 0,1
Timer with alarm		adjustable set point limitation and alarm	
Temperature controller	min	0 - 99,99	-
Calibration / Resolution		-	„SET“-temperature (standard 70°C) / 0,1
Programmes		-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	260 x 130 x 310	260 x 130 x 310
Weight	kg	ca. 5	ca. 5
Interface		-	RS 232 (V.24)
External sensor		-	connection socket (Pt 100 in four-wire circuit)
Internal Device monitoring with error message		.	empty bath vessel
		.	exceeding temperature
		.	error temperature sensor
		.	error software and hardware

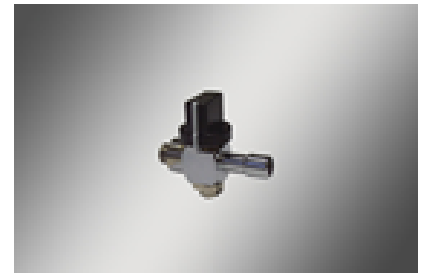
Accessories for water baths



Flat cover with water bath-rings



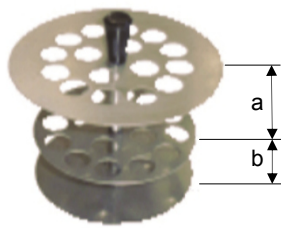
Spring clamps FK 10 - FK 1000



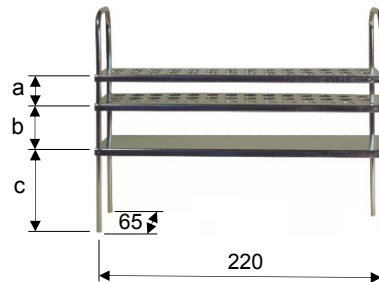
Drain cock

Item No.:	Type	Description / features Application	
A –10743	FL 5-1	Flat cover 5, 1 opening	D= 130mm
A –10744	FL 5-2	Flat cover 5, 2 Openings	D= 92mm
A –10745	FL 10-3	Flat cover 10, 3 Openings	D= 130mm
A –10746	FL 10-6	Flat cover 10, 6 Openings	D= 92mm
A –10747	FL 20-3	Flat cover 20, 3 Openings	D= 130mm
A –10748	FL 20-8	Flat cover 20, 8 Openings	D= 92mm
A –10749	WR 130	Water bath rings 6 -piece,	D= 130mm
A –10750	WR 92	Water bath rings 4 -piece,	D= 92mm
A –10751	KR 1	Level controller	
A –10752	AH	Drain cock, complete	
K –14362	FK 10	Holding clamp for Erlenmeyer flasks	10 ml
K –14363	FK 25	Holding clamp for Erlenmeyer flasks	25 ml
K –14364	FK 50	Holding clamp for Erlenmeyer flasks	50 ml
K –14365	FK 100	Holding clamp for Erlenmeyer flasks	100 ml
K –14366	FK 250	Holding clamp for Erlenmeyer flasks	250 ml
K –14367	FK 500	Holding clamp for Erlenmeyer flasks	500 ml
K –14368	FK 1000	Holding clamp for Erlenmeyer flasks	1000 ml
A –10740	SKR 20	Basket for max. 4 test tube racks	

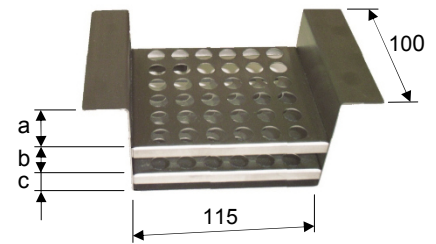
Test Tube Racks for water baths



Test Tube Racks round
for Water bath MWB 5 - MWB 40



Test Tube Racks
for Water bath MWB 5 - MWB 40



Test Tube Racks
for Water bath MWB 5 - MWB 40

(Round) for Water bath MWB 5 - MWB 40 and for devices with flat cover

Item No.:	Type	Dimensions in mm			Capacity for Tubes		Max. quantity of racks per device			
		a	b	c	St.	max. Ø	MWB 5	MWB 10	MWB 20	MWB 40
A -10753	RGR 8.10,5	20	30		36	10,5	1	3	3	6
A -10754	RGR 8.11,5	15	20	-	36	11,5	1	3	3	6
A -10755	RGR 8.14,5	50	30	-	24	14,5	1	3	3	6
A -10756	RGR 8.18,5	50	30	-	16	18,5	1	3	3	6
A -10758	RGR 8.32	50	30	-	6	32	1	3	3	6

for Water Bath MWB 5 - MWB 40

Item No.:	Type	Dimensions in mm			Capacity for Tubes		Max. quantity of racks per device			
		a	b	c	St.	max. Ø	MWB 5	MWB 10	MWB 20	MWB 40
A -10759	RG 8.10,5	20	30	60	56	10,5	3	5	6	12
A -10760	RG 8.11,5	15	20	75	56	11,5	3	5	6	12
A -10761	RG 8.14,5	50	30	30	33	14,5	3	5	6	12
A -10762	RG 8.18,5	50	30	30	18	18,5	3	5	6	12
A -10763	RG 8.28	50	30	30	8	28	3	5	6	12
A -10764	RG 8.32	50	30	30	6	32	3	5	6	12
A -10765	RG 8.49	30	30	30	3	49	3	5	6	12
A -10766	RG 8.58	60	30	30	3	58	3	5	6	12
A -10770	RG18,5	33	25	17	20	18,5	-	-	-	-
A-100769	RG 14,5	33	25	14	25	14,5	-	-	-	-
A -10768	RG 13,5	48	25	17	36	13,5	-	-	-	-
A -10767	RG 11,5	33	25	17	36	11,5	-	-	-	-
A -10771	RG 32	35	65	20	5	32	-	-	-	-

Table-Cryostat to -10 °C

Series K 10



Product Example K ...T ...

Technical Data

		K10 T 100	K10 T 200
Item-No.:		A-10857	A-10858
Temperature range	°C	-10 ... +100	-10 ... +100
Temperature stability	K	± 0,1	± 0,01
Pump flow rate max	l/min	5	8
Pump pressure max.	bar	0,12	0,2
Heat power	kW	1	1,8
Temperature display		LED	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	3	3
Bath opening	mm	135 x 105	135 x 105
Bath depth	mm	130	130
Cooling power -10°C / 0°C / +20°C	W	- / 130 / 200	- / 130 / 200
Programmes		-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	205x335x540	205x335x540
Weight	kg	ca. 17,5	ca. 17,5
Interface		-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit

Table-Cryostat to -20 °C

Series K 21



Product Example K ...T ...

Technical Data

		K21 T 100	K21 T 200	K21 TC 150	K21 TC 250
Item-No.:		A-10859	A-10860	A-10862	A-10863
Temperature range	°C	-20 ... +100	-20 ... +100	-20 ... +100	-20 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1			1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	8	8	8	8
Bath opening	mm	235 x 165	235 x 165	235 x 165	235 x 165
Bath depth	mm	150	150	150	150
Cooling power -10°C / 0°C / +20°C	W	100 / 425 / 700	100 / 425 / 700	100 / 425 / 700	100 / 425 / 700
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	305 x 450 x 600	305 x 450 x 600	305 x 450 x 570	305 x 450 x 570
Weight	kg	approx. 32	approx. 32	approx. 35	approx. 35
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Table-Cryostat to -20 °C

Series K 21



Product Example K ... T ...

Technical Data

		K21 T 200 K with cryo control	K21 TC 250 K with cryo control
Item-No.:		A-10861	A-10864
Temperature range	°C	-20 ... +200	-20 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	8	8
Bath opening	mm	235 x 165	235 x 165
Bath depth	mm	150	150
Cooling power -10°C / 0°C / +20°C	W	100 / 425 / 700	100 / 425 / 700
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	305x450x600	305x450x570
Weight	kg	approx. 32	approx. 35
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Table-Cryostat to -20 °C

Series K 22



Product Example K ...T ...

Technical Data

		K22 T 100	K22 T 200	K22 TC 150	K22 TC 250
Item-No.:		A-10865	A-10866	A-10868	A-10869
Temperature range	°C	-20 ... +100	-20 ... +100	-20 ... +100	-20 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	10	10	10	10
Bath opening	mm	235 x 165	235 x 165	235 x 165	235 x 165
Bath depth	mm	200	200	200	200
Cooling power -10°C / 0°C / +20°C	W	100 / 425 / 700	100 / 425 / 700	100 / 425 / 700	100 / 425 / 700
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	305 x 450 x 700	305 x 450 x 700	305 x 450 x 670	305 x 450 x 670
Weight	kg	approx. 32	approx. 32	approx. 35	approx. 35
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Table-Cryostat to -20 °C

Series K 22



Product Example K ...T ...

Technical Data

		K22 T 200 K with cryo control	K22 TC 250 K with cryo control
Item-No.:		A-10867	A-10870
Temperature range	°C	-20 ... +200	-20 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	10	10
Bath opening	mm	235 x 165	235 x 165
Bath depth	mm	200	200
Cooling power -10°C / 0°C / +20°C	W	100 / 425 / 700	100 / 425 / 700
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	305 x 450 x 700	305 x 450 x 670
Weight	kg	approx. 32	approx. 35
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Table-Cryostat to -30 °C

Series K 31



Product Example K ...T ...

Technical Data

		K31 T 100	K31 T 200	K31 TC 150	K31 TC 250
Item-No.:		A-10871	A-10872	A-10874	A-10875
Temperature range	°C	-30 ... +100	-30 ... +100	-30 ... +100	-30 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital über Touch-Panel	digital	digital über Touch-Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	11	11	11	11
Bath opening	mm	300 x 190	300 x 190	300 x 190	300 x 190
Bath depth	mm	150	150	150	150
Cooling power -10°C / 0°C / +20°C	W	200 / 500 / 750	200 / 500 / 750	200 / 500 / 750	200 / 500 / 750
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	400 x 480 x 710	400 x 480 x 710	400 x 480 x 680	400 x 480 x 680
Weight	kg	approx. 40	approx. 40	approx. 42	approx. 42
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Table-Cryostat to -30 °C

Series K 31



Product Example K ...T ...

Technical Data

		K31 T 200 K with cryo control	K31 TC 250 K with cryo control
Item-No.:		A-10873	A-10876
Temperature range	°C	-30 ... +200	-30 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	11	11
Bath opening	mm	300 x 190	300 x 190
Bath depth	mm	150	150
Cooling power -10°C / 0°C / +20°C	W	200 / 500 / 750	200 / 500 / 750
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	400 x 480 x 710	400 x 480 x 680
Weight	kg	approx. 40	approx. 42
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Table-Cryostat to -30 °C

Series K 32



Product ExampleK...T...

Technical Data

		K32 T 100	K32 T 200	K32 TC150	K32 TC 250
Item-No.:		A-10877	A-10878	A-10880	A-10881
Temperature range	°C	-30 ... +100	-30 ... +100	-30 ... +100	-30 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	15	15	15	15
Bath opening	mm	300 x 190	300 x 190	300 x 190	300 x 190
Bath depth	mm	200	200	200	200
Cooling power -10°C / 0°C / +20°C	W	200 / 500 / 750	200 / 500 / 750	200 / 500 / 750	200 / 500 / 750
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	400x480x710	400 x 480 x 710	400x480x680	400 x 480 x 680
Weight	kg	approx. 40	approx. 40	approx. 42	approx. 42
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Table-Cryostat to -30 °C

Series K 32



ProductExample K ... T ...

Technical Data

		K32 T 200 K with cryo control	K32 TC 250with cryo control
Item-No.:		A-10879	A-10882
Temperature range	°C	-30 ... +200	-30 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	15	15
Bath opening	mm	300 x 190	300 x 190
Bath depth	mm	200	200
Cooling power -10°C / 0°C / +20°C	W	200 / 500 / 750	200 / 500 / 750
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	400 x 480 x 710	400 x 480 x 680
Weight	kg	approx. 40	approx. 42
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to 0°C

Series KT

Table appliances with high bath volume

Technical Data

		KT T 100	KT T 200	KT TC 150	KT TC 250
Item-No.:		A-10883	A-10884	A-10886	A-10887
Temperature range	°C	0 ... +100	0 ... +100	0 ... +100	0 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	14	14	14	14
Bath opening	mm	210 x 270	210 x 270	210 x 270	210 x 270
Bath depth	mm	190	190	190	190
Cooling power -10°C / 0°C / +20°C	W	- / 250 / 500	- / 250 / 500	- / 250 / 500	- / 250 / 500
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	400 x 450 x 730	400 x 450 x 730	400 x 450 x 700	400 x 450 x 700
Weight	kg	approx. 40	approx. 40	approx. 42	approx. 42
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to 0 °C

Series KT

Table appliances with high bath volume

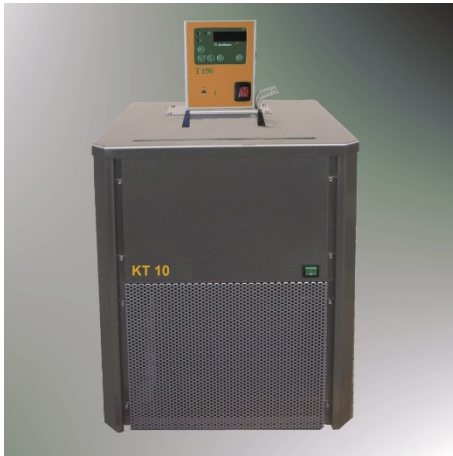
Technical Data

		KT T 200 K with cryo control	KT TC 250 K with cryo control
Item-No.:		A-10885	A-10888
Temperature range	°C	0 ... +200	0 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	14	14
Bath opening	mm	210 x 270	210 x 270
Bath depth	mm	190	190
Cooling power -10°C / 0°C / +20°C	W	- / 250 / 500	- / 250 / 500
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	400 x 450 x 730	400 x 450 x 700
Weight	kg	approx. 40	approx. 42
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to -10 °C

Series KT 10

Table appliances with high bath volume



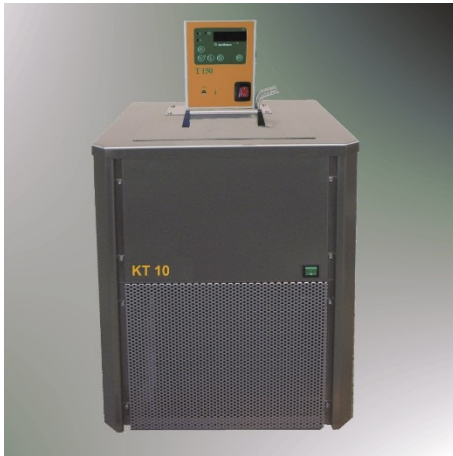
Technical Data

		KT10 T 100	KT10 T 200	KT10 TC 150	KT10 TC 250
Item-No.:		A-10889	A-10890	A-10892	A-10893
Temperature range	°C	-10 ... +100	-10 ... +100	-10 ... +100	-10 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	14	14	14	14
Bath opening	mm	210 x 270	210 x 270	210 x 270	210 x 270
Bath depth	mm	190	190	190	190
Cooling power -10°C / 0°C / +20°C	W	- / 250 / 500	- / 300 / 500	- / 300 / 500	- / 300 / 500
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	400x450x730	400 x 450 x 730	400 x 450 x 700	400 x 450 x 700
Weight	kg	approx. 40	approx. 40	approx. 42	approx. 42
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to -10 °C

Series KT 10

Table appliances with high bath volume



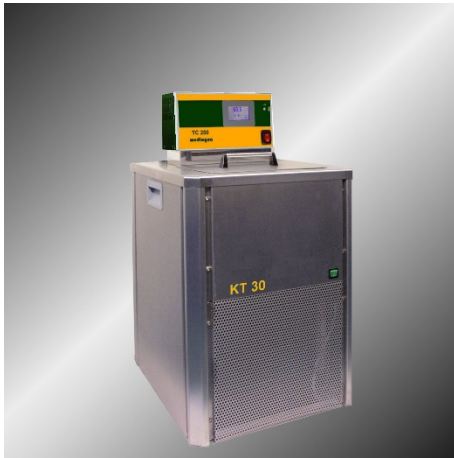
Technical Data

		KT10 T 200 K with cryo control	KT10 TC 250 K with cryo control
Item-No.:		A-10891	A-10894
Temperature range	°C	-10 ... +200	-10 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	14	14
Bath opening	mm	210 x 270	210 x 270
Bath depth	mm	190	190
Cooling power -10°C / 0°C / +20°C	W	- / 300 / 500	- / 300 / 500
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	400 x 450 x 730	400 x 450 x 700
Weight	kg	approx. 40	approx. 42
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to -30 °C

Series KT 30

Table appliances with high bath volume



Product Example KT...TC...

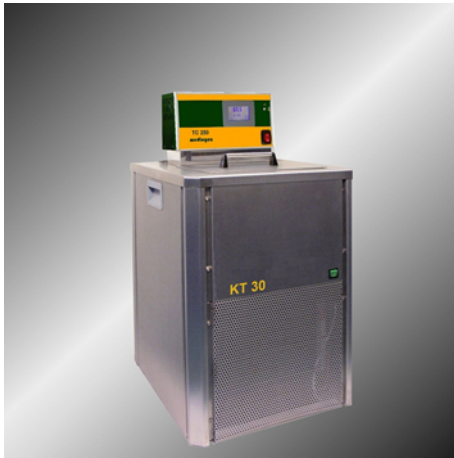
Technical Data

		KT30 T 150	KT30 T 200	KT30 TC 150	KT30 TC 250
Item-No.:		A-10895	A-10896	A-10898	A-10899
Temperature range	°C	-30 ... +100	-30 ... +100	-30 ... +100	-30 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20/ 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1,8	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital über Touch-Panel	digital	digital über Touch-Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	14	14	14	14
Bath opening	mm	210 x 270	210 x 270	210 x 270	210 x 270
Bath depth	mm	190	190	190	190
Cooling power -10°C / 0°C / +20°C	W	250 / 450 / 600	250 / 450 / 600	250 / 450 / 600	250 / 450 / 600
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	400 x 450 x 730	400 x 450 x 730	400 x 450 x 700	400 x 450 x 700
Weight	kg	approx. 40	approx. 40	approx. 42	approx. 42
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to -30 °C

Series KT 30

Table appliances with high bath volume



Product Example KT...TC...

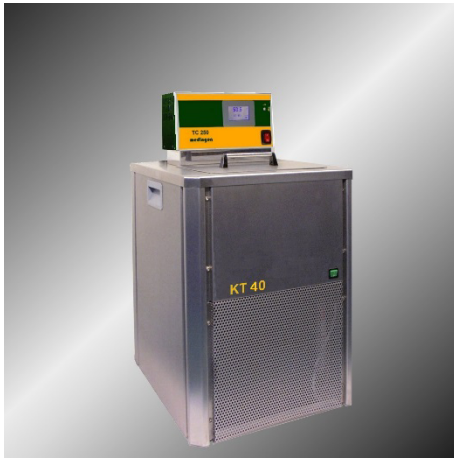
Technical Data

		KT30 T 200 K with cryo control	KT30 TC 250 K with cryo control
Item-No.:		A-10897	A-10900
Temperature range	°C	-30 ... +200	-30 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	14	14
Bath opening	mm	210 x 270	210 x 270
Bath depth	mm	190	190
Cooling power -10°C / 0°C / +20°C	W	250 / 450 / 600	250 / 450 / 600
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	400 x 450 x 730	400 x 450 x 700
Weight	kg	approx. 40	approx. 42
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to -40 °C

Series KT 40

Table appliances with high bath volume



Product Example KT...TC...

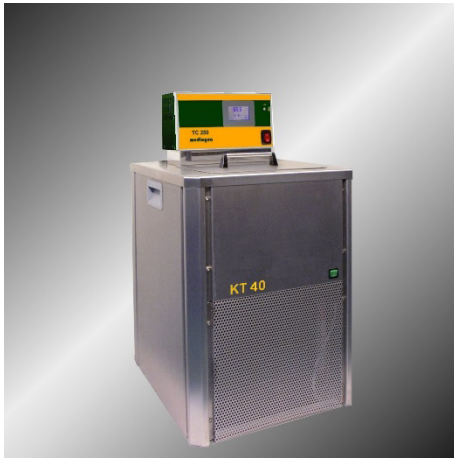
Technical Data

		KT40 T 150	KT40 T 200	KT40 TC 150	KT40 TC 250
Item-No.:		A-10901	A-10902	A-10904	A-10905
Temperature range	°C	-40 ... +100	-40 ... +100	-40 ... +100	-40 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1,8	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	14	14	14	14
Bath opening	mm	210 x 270	210 x 270	210 x 270	210 x 270
Bath depth	mm	190	190	190	190
Cooling power -10°C / 0°C / +20°C	W	400 / 550 / 750	400 / 550 / 750	400 / 550 / 750	400 / 550 / 750
Programmes		-	2 appletswith 10 time-/temp. segmentseach	-	2 appletswith 10 time-/temp. segmentseach
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	400 x 450 x 730	400 x 450 x 730	400 x 450 x 700	400 x 450 x 700
Weight	kg	approx. 40	approx. 40	approx. 42	approx. 42
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to -40 °C

Series KT 40

Table appliances with high bath volume



Product Example KT...TC...

Technical Data

		KT40 T 200 K with cryo control	KT40 TC 250 K with cryo control
Item-No.:		A-10903	A-10906
Temperature range	°C	-40 ... +200	-40 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	14	14
Bath opening	mm	210 x 270	210 x 270
Bath depth	mm	190	190
Cooling power -10°C / 0°C / +20°C	W	400 / 550 / 750	400 / 550 / 750
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	400 x 450 x 730	400 x 450 x 700
Weight	kg	approx. 40	approx. 42
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to -10 °C

Series KB 10
with high bath volume and powerful cooling machine



Product Example KB...T...

Technical Data

		KB 10 T 150	KB 10 T 200	KB 10 TC 150	KB 10 TC 250
Item-No.:		A-11095	A-10908	A-10910	A-10911
Temperature range	°C	-10 ... +100	-10 ... +100	-10 ... +100	-10 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1,0	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	22	22	22	22
Bath opening	mm	230 x 270	230 x 270	230 x 270	230 x 270
Bath depth	mm	250	250	250	250
Cooling power -10°C / 0°C / +20°C	W	200 / 400 / 750	200 / 400 / 750	200 / 400 / 750	200 / 400 / 750
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	550 x 655 x 1020	550 x 655 x 1020	550 x 655 x 1020	550 x 655 x 1020
Weight	kg	approx. 95	approx. 95	approx. 100	approx. 100
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to -10 °C

Series KB 10
with high bath volume and powerful cooling machine



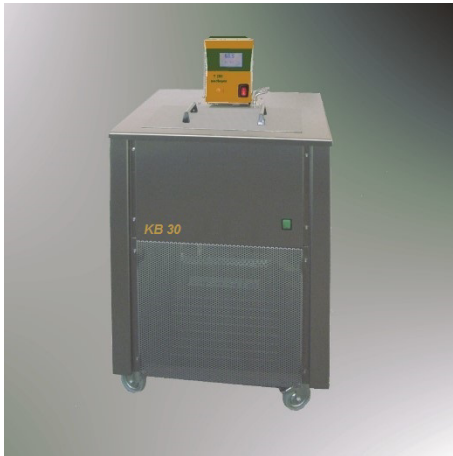
Product Example KB...T...

Technical Data

		KB10 T 200 K with cryo control	KB10 TC 250 K with cryo control
Item-No.:		A-10909	A-10912
Temperature range	°C	-10 ... +200	-10 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	22	22
Bath opening	mm	230 x 270	230 x 270
Bath depth	mm	250	250
Cooling power -10°C / 0°C / +20°C	W	350 / 500 / 750	350 / 500 / 750
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	534 x 570 x 1020	534 x 570 x 1020
Weight	kg	approx. 95	approx. 100
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to -30 °C

Series KB 30
with high bath volume and powerful cooling machine



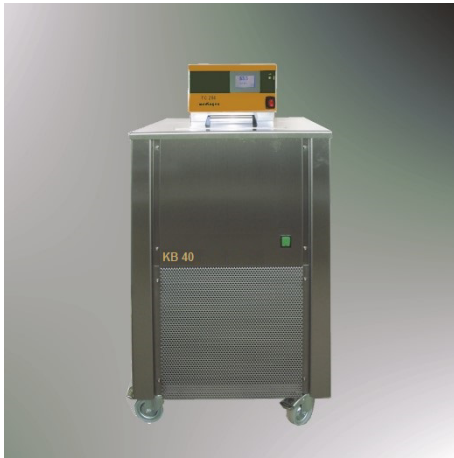
Product Example KB...T...

Technical Data

		KB 30 T 150	KB 30 T 200	KB 30 TC 150	KB 30 TC 250
Item-No.:		A-10913	A-10914	A-10916	A-10917
Temperature range	°C	-30 ... +100	-30 ... +100	-30 ... +100	-30 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1,8	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	22	22	22	22
Bath opening	mm	230 x 270	230 x 270	230 x 270	230 x 270
Bath depth	mm	250	250	250	250
Cooling power -10°C / 0°C / +20°C	W	350 / 500 / 750	350 / 500 / 750	350 / 500 / 750	350 / 500 / 750
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	535 x 570 x 1020	535 x 570 x 1020	535 x 570 x 990	535 x 570 x 990
Weight	kg	approx. 100	approx. 100	ca. 105	ca. 105
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to -30 °C

Series KB 30
with high bath volume and powerful cooling machine



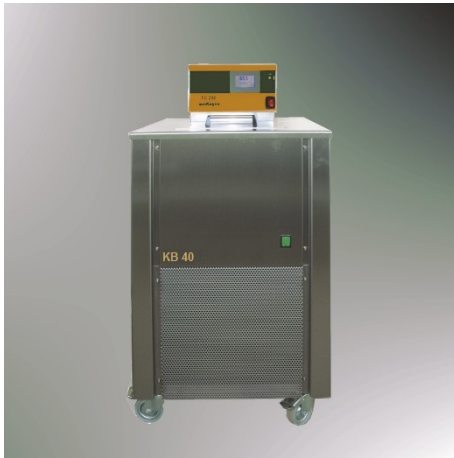
Product Example KB...TC...

Technical Data

		KB30 T 200 K with cryo control	KB30 TC 250 K with cryo control
Item-No.:		A-10921	A-10924
Temperature range	°C	-30 ... +200	-30 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	22	22
Bath opening	mm	230 x 270	230 x 270
Bath depth	mm	250	250
Cooling power -10°C / 0°C / +20°C	W	350 / 500 / 750	350 / 500 / 750
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	535 x 570 x1020	535 x 570 x1020
Weight	kg	approx. 100	approx. 100
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to -40 °C

Series KB 40
with high bath volume and powerful cooling machine



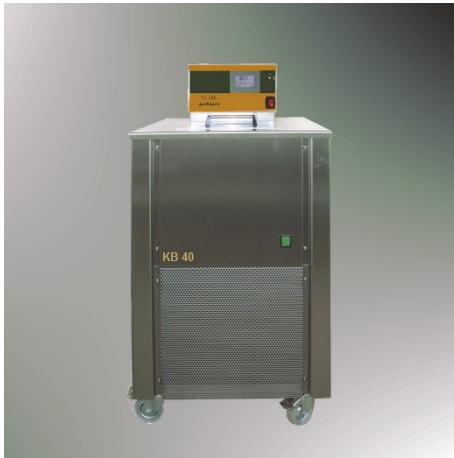
Product Example KB...TC...

Technical Data

		KB 40 T 150	KB 40 T 200	KB 40 TC 150	KB 40 TC 250
Item-No.:		A-10919	A-10920	A-10922	A-10923
Temperature range	°C	-40 ... +100	-40 ... +100	-40 ... +100	-40 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1,8	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	22	22	22	22
Bath opening	mm	230 x 270	230 x 270	230 x 270	230 x 270
Bath depth	mm	250	250	250	250
Cooling power -10°C / 0°C / +20°C	W	600 / 700 / 1000	600 / 700 / 1000	600 / 700 / 1000	600 / 700 / 1000
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	535 x 570 x 1020	535 x 570 x 1020	535 x 570 x 990	535 x 570 x 990
Weight	kg	ca. 100	ca. 100	approx. 105	approx. 105
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to -40 °C

Series KB 40
with high bath volume and powerful cooling machine



Product Example KB...TC...

Technical Data

		KB40 T 200 K with cryo control	KB40 TC 250 K with cryo control
Item-No.:		A-10921	A-10924
Temperature range	°C	-40 ... +200	-40 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	22	22
Bath opening	mm	230 x 270	230 x 270
Bath depth	mm	250	250
Cooling power -10°C / 0°C / +20°C	W	600 / 700 / 1000	600 / 700 / 1000
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	535 x 570 x1020	535 x 570 x1020
Weight	kg	approx. 100	approx. 100
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to -55 °C

Series KB 55
with high bath volume and powerful cooling machine



ProductExampleKB...TC...

Technical Data

		KB 55 T 150	KB 55 T 200	KB 55 TC 150	KB 55 TC 250
Item-No.:		A-10925	A-10926	A-10928	A-10929
Temperature range	°C	-55 ... +100	-55 ... +100	-55 ... +100	-55 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1,8	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	22	22	22	22
Bath opening	mm	230 x 270	230 x 270	230 x 270	230 x 270
Bath depth	mm	250	250	250	250
Cooling power -10°C / 0°C / +20°C	W	800 / 950 / 1000	800 / 950 / 1000	800 / 950 / 1000	800 / 950 / 1000
Programmes		-	2 applets with 10 time-/temp. segment each	-	2 applets with 10 time-/temp. segment each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	535 x 570 x 990	535 x 570 x 990	535x570 x990	535 x 570 x 990
Weight	kg	approx. 105	approx. 105	approx. 105	approx. 105
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to -55 °C

Series KB 55
with high bath volume and powerful cooling machine



Product Example KB...TC...

Technical Data

		KB55 T 200 K with cryo control	KB55 TC 250 K with cryo control
Item-No.:		A-10927	A-10932
Temperature range	°C	-55 ... +200	-55 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	22	22
Bath opening	mm	230 x 270	230 x 270
Bath depth	mm	250	250
Cooling power -10°C / 0°C / +20°C	W	800 / 950 / 1000	800 / 950 / 1000
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	535x570 x990	535 x 570 x 990
Weight	kg	approx. 105	approx. 105
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 in four-wire circuit	Pt 100 in four-wire circuit

Cryostat to -75 °C

Series KB 75

With Powerful cooling machine



Product Example KB...TC...

Technical Data

		KB 75 T 150	KB 75 T 200	KB 75 TC 150	KB 75 TC 250
Item-No.:		A-10931	A-10932	A-10934	A-10935
Temperature range	°C	-75 ... +100	-75 ... +100	-75 ... +100	-75 ... +100
Temperature stability	K	0,1	0,01	0,1	0,01
Pump flow rate max pressure / suck	l/min	5 / -	8 / -	20 / 18	20 / 18
Pump pressure max. pressure / suck	bar	0,12 / -	0,2 / -	0,3 / 0,2	0,3 / 0,2
Heat power	kW	1	1,8	1,8	1,8
Temperature display		LED	digital, graphic display	LED	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution	K	0,1	0,1	0,1	0,1
Bath volume	l	12	12	12	12
Bath opening	mm	230 x 180	230 x 180	230 x 180	230 x 180
Bath depth	mm	150	150	150	150
Cooling power -10°C / 0°C / +20°C	W	500 / 800 / 900	500 / 800 / 900	500 / 800 / 900	500 / 800 / 900
Programmes		-	2 applets with 10 time-/temp. segments each	-	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3	3	3
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (w x d x h)	mm	550 x 655 x 1020	550 x 655 x 1020	550 x 655 x 1020	550 x 655 x 1020
Weight	kg	approx. 100	approx. 100	approx. 100	approx. 100
Interface		-	RS232 (V.24)	-	RS232 (V.24)
External sensor connection		-	Pt 100 in four-wire circuit	-	Pt 100 in four-wire circuit

Cryostat to -75 °C

Series KB 75

With Powerful cooling machine



Product Example KB...TC...

Technical Data

		KB75 T 200 K with cryo control	KB75 TC 250 K with cryo control
Item-No.:		A-10933	A-10936
Temperature range	°C	-75 ... +200	-75 ... +200
Temperature stability	K	± 0,01	± 0,01
Pump flow rate max pressure / suck	l/min	8 / -	20 / 18
Pump pressure max. pressure / suck	bar	0,2 / -	0,3 / 0,2
Heat power	kW	1,8	1,8
Temperature display		digital, graphic display	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital, Touch Panel	digital, Touch Panel
resolution	K	0,1	0,1
Bath volume	l	12	12
Bath opening	mm	230 x 180	230 x 180
Bath depth	mm	150	150
Cooling power -10°C / 0°C / +20°C	W	500 / 800 / 900	500 / 800 / 900
Programmes		2 applets with 10 time-/temp. segments each	2 applets with 10 time-/temp. segments each
Safety class DIN 12876		3	3
Power supply	V/Hz	230/50	230/50
Dimensions (w x d x h)	mm	550 x 655 x 1020	550 x 655 x 1020
Weight	kg	approx. 100	approx. 100
Interface		RS232 (V.24)	RS232 (V.24)
External sensor connection		Pt 100 i in four-wire circuit	Pt 100 in four-wire circuit

Circulation Cooler

(FCKW - free)



KK 6 TBE



KK 10



KK 60

	Item No.:	Temperature Range °C	Cooling Power in W		Dimensions (WxDxH)	Weight	Pump l/min / bar
			at 0 °C	at 15 °C			
Circulation Cooler with digital temperature display and setting, temp. stability ± 0,5 K							
KK 4-TBE	K-14340	-10 ... +40	200	400	280 x 360 x 520	ca. 27 kg	18 / 0,5
KK 6-TBE	K-14341	-10 ... +40	300	600	280 x 360 x 520	ca. 28,5 kg	18 / 0,5
KK 8-TBE	K-14342	-10 ... +40	420	800	280 x 360 x 520	ca. 30 kg	18 / 0,5
Circulation Cooler with digital temperature display and setting, temp. stability ± 0,2 K							
KK 6-TBC	K-14343	-10 ... +40	300	600	280 x 360 x 520	ca. 28,5 kg	18 / 0,5
KK 8-TBC	K-14344	-10 ... +40	420	800	280 x 360 x 520	ca. 30 kg	18 / 0,5
Circulation Cooler with digital temperature display and setting, temp. stability ± 0,5 K							
KK 6	K-14345	-10 ... +40	300	600	400 x 450 x 570	ca. 45 kg	30 / 0,6
KK 8	K-14346	-10 ... +40	420	800	400 x 450 x 570	ca. 45 kg	30 / 0,6
KK 10	K-14347	-10 ... +40	500	1000	400 x 450 x 570	ca. 47 kg	30 / 0,6
KK 12	K-14348	-10 ... +40	550	1200	400 x 450 x 570	ca. 49 kg	30 / 0,6
KK 14	K-14349	-10 ... +40	600	1400	400 x 450 x 570	ca. 51 kg	30 / 0,6
KK 20	K-14350	-10 ... +40	800	2000	550 x 450 x 1100	ca. 65 kg	12 / 3,0
KK 25	K-14351	-10 ... +40	1000	2500	550 x 450 x 1100	ca. 72 kg	12 / 3,0
KK 30	K-14352	-10 ... +40	1250	3000	550 x 450 x 1100	ca. 80 kg	12 / 3,0
KK 40	K-14353	-10 ... +40	1600	4000	550 x 450 x 1100	ca. 95 kg	12 / 3,0
KK 60	K-14354	-10 ... +40	2400	6000	550 x 450 x 1100	ca. 120 kg	12 / 3,0
KK 80	K-14355	-10 ... +40	3300	8000	800 x 1000 x 1600	ca. 165 kg	25 / 4,0
KK 100	K-14356	-10 ... +40	3800	10000	800 x 1000 x 1600	ca. 225 kg	25 / 4,0
Circulation Cooler with analogue temperature setting and capillaries tubing regulation, temp. stability ± 2,0 K							
KK 4-TB	K-14337	-10 ... +40	200	400	280 x 360 x 520	ca. 27 kg	18 / 0,5
KK 6-TB	K-14338	-10 ... +40	300	600	280 x 360 x 520	ca. 27 kg	18 / 0,5
KK 8-TB	K-14339	-10 ... +40	420	800	280 x 360 x 520	ca. 27 kg	18 / 0,5

On inquiry, different pump-solutions are available.

Power supply up to type KK 20: 230 V, starting with KK 30: 400 V

Special-accessories starting with KK20: heater with 2000 W, remote control, difference-temperature-regulation