

PRODUKTKATALOG Labortechnik

PRODUCT CATALOGUE Laboratory Technology



P-D Industriegesellschaft mbH
PRÜFGERÄTEWERK DRESDEN

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Qualität mit Geschichte in der Labortechnik
Quality with History in Laboratory Technology



www.pd-gruppe.de



Introduction to catalogue and price list systematics

In our catalogue you find a - at first glance maybe confusing variety - of products. Its sense is, that the customer can be offered a device ideal for his/her application with regard to the cost/performance ratio. For advising the customer it is essential for all products to find out about the application of the device.

Thermostats E5/E5s/C5/C20 (catalogue pages 3-6)

First of all you find the thermostats of series E and C in our catalogue. These thermostats basically differ in the electronic equipment, the pump capacity and the temperature stability.

All thermostats can be employed for temperating tasks with already existing vessels or with our bath vessels (page 6). Further on all cryostats offered, are, depending on the task, equipped with one of the thermostats offered. The K10 can be equipped with thermostats of the E series only.

The circulation coolers do not have any thermostat, since a cooling capability has to be effected.

Water baths with Timer (catalogue page 9)

The water baths are always delivered with an inclined cover according to the specification shown.

If the customer e. g. wants to heat the content of Erlenmeyer flasks, the use of an additional flat cover (picture top right) would be expedient. You can find it on page 11 under accessories for water baths. Subject to the application we offer 6 flat covers. If the customer wants to close the interspace between flask neck and cover, he/she can use the corresponding water bath rings.

Shaking water bath SWB 20 (catalogue page 10)

In series the SWB 20 is equipped with a shaking basket SKF 20. In order to adjust the shaking material (e.g. flask) on the bottom of the shaking basket, we offer the so-called holding clamps in different versions (page 11). The varied possibilities of adjustment you see on page 10. For shaking test tube racks or other shaking material the shaking basket SKR 20 is available as accessory.

Cryostats -10 till -75 °C (catalogue pages 14 till 19)

In combination with the cryostats we offer a variety of cooling device/thermostat combinations in order to provide the customer with a device ideal for his/her application with regard to the cost/performance ratio. Especially with the cooling devices it is very important to know, what the customer wants the device for.

Due to the variety of possible combinations we have included a selection of possible combinations of cooling devices with thermostats in our product catalogue only. Therewith it is shown, that principally all cooling devices (exception K10 a.m.) can be combined with all thermostats of the E and C series. All single variations are to be found in the price list. There you also find the accordant differences for bath volume, temperature range, cooling and pump capacity.

For example: Cryostat KB55 C20 **K** it is not in the catalogue. The ‚K‘ means ‚cooling control of the thermostat‘, i.e. if a heat emission is effected by the thermostat, it independently regulates the cooling device analogically

Please do not hesitate to contact us for advice in particular cases. It is important to you, to gather us much information on the application of the device from the customer as possible. This is also essential e. g. in order to select the right hoses (material and length).

Circulation cooler (catalogue page 20)

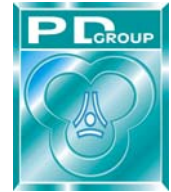
Except for the KK5 TBE the price list complies with the product catalogue. We have deleted the KK5 TBE from our range of products.

It is the same for all products: If the customer needs a special design for a particular application, it can be realized by us. We are at your disposal for your requests.

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Bath-/ Immersion Thermostat E 5 / E 5s

The previous existing bath-/ immersion thermostat E 1 is replaced by the new thermostats E 5/E5s with Timer. It can be used in the same way like the previous thermostat E 1. So it can be ordered as single device with a clip or in combination with a polycarbonate- or a high-grade steel bath. The E 5s has a higher heating power and an enhanced temperature-range.



E 5



E 5s

Specifications

	E 5	E 5s
Working temp. range:	25...100 °C	25...150 °C
... with external cooling	-30...100 °C	-50...+150 °C
Temperature stability:	± 0,05 K	± 0,05 K
Pump: Flow rate	5 l/min	5 l/min
Pressure	0,12 bar	0,12 bar
Heat power:	1 KW	1,8 KW
Temperature display / Solution:		LED / 0,1 K
Temperature setting / Solution:		digital / 0,1 K
Temperature controller:	adjustable set point limitation and alarm	
Timer with alarm	0 - 99,99 min	
Safety class DIN 12876:	3	
Power supply :	230 V /50 Hz	
Dimensions (wxdxh):	120 x 130 x 330 mm	
Weight (approx.):	3 kg	



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Bath-/ Immersion Thermostat E 20

The previous existing bath-/ immersion thermostat E 10 is replaced by the new thermostat E 20. It can be used in the same way like the previous thermostat E 10. It can be ordered as single device with a clip or in combination with a polycarbonate- or high-grade steel bath. Thermostat E 20 K is supplied with a cryo- (cool) control to save energy.



E 20

Specifications

Working temperature range:	E 20 Approx. 30...200 °C (short-time to 250 °C)
Temperature range with. ext. cooling:	-60...200 °C (short-time to 250 °C)
Temperature controller:	adaptive PID-Control for different thermostat liquids
Temperature stability DIN 12876-2:	± 0,01 K (at 70°C in water)
Temperature measurement:	PT 100 linear
Temperature scale:	digital, display
Temperature setting:	digital, Touch Panel
Cryo-control:	Thermostat E 20 K
Calibration:	„SET“-temperature (standard 70°C)
Resolution:	0,1 K
Program operator:	2 applets with 10 segments each
Heat power:	1,8 KW
Pump Flow rate:	8 l/min
Pressure:	0,2 bar
Error message:	empty bath vessel, exceeding temperature error temperature sensor, error software and hardware
Interface:	RS 232 (V.24)
External sensor:	Port for Pt 100
Safety class DIN 12876:	3
Power supply :	230 V /50 Hz
Dimensions:	120 x 130 x 335 mm
Weight (approx.):	3 kg



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Bath-/ Circulation Thermostat C 5

The previous existing bath thermostat C 1 is replaced by the new thermostat C 5.

The usage of C 5 thermostat is similar to the use of the previous thermostat C 1. Therefore the Thermostat can be used as new component in combination with high-grade steel baths or to replace a thermostat for container in use. The device is supplied with a double-throw pump control.



Thermostat C 5

Technical data

Working temperature range:	30°C...150 °C (at minimum pump capacity)
Temperature range with cooling:	-50°C...150 °C (with external cooling)
Temperature stability:	± 0,05 K
Pump:	Double pump with double-throw control
Double pump: Flow rate:	pressure 20 l/min intake 18 l/min
Pump height:	pressure 3,0 m intake 2.0 m
Heat power:	1,8 KW
Temperature setting / Resolution:	digital / 0,1 K
Thermostat:	microprocessor controlled, adjustable set point demarcation and alarm
Safety class DIN 12876:	3
Power supply:	230V / 50 Hz
Dimensions (W*D*H):	260 x 130 x 310 mm
Weight:	5,0 kg

C 5



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Bath-/ Circulation Thermostat C 20

The previous existing bath thermostat C10 is replaced by the new thermostat C 20.

The device can be used in the same way like the previous thermostat C10. Consequently, the thermostat can be used as device with tripod or bath-bridge, but also in combination with our steel-baths. Baths in use can be retrofitted on C20 without problems. The standard device is supplied with a double-throw pump control.

For use together with a cooling device, the thermostat C 20 K is supplied with a cryo-(cool) control to save energy.



C20 with adjustable stand

Specifications

Working temperature range
 Operating temperature range with ext. cooling:
 Temperature controller:
 Temperature stability DIN 12876-2:
 Temperature sensor:
 Temperature scale:
 Temperature setting:
 Cryo-control:
 Calibration:
 Display-Resolution
 Program settings:
 Heat power
 Pump:
 Double pump Flow rate:
 Pump-height:
 Power supply:
 Safety class DIN 12876:
 Error message:

Interface:
 External sensor:
 Dimensions (W*D*H):
 Weight:

C 20 (K)

approx. +30 °C...250 °C (at minimum pump capacity)
 -60 °C... 250 °C
 adaptive PID controller for different thermostat liquids
 ±0,01 K , (with 70°C in water)
 Type Pt 100
 digital on graphic display
 digital with Touch Panel
 Thermostat C 20 K
 on "SET"-Temperature, standard 70 °C
 0,1 K
 2 applets with 10 segments each
 1,8 KW
 Double pump with double-throw control (min/max)
 Pressure - 20 l/min Intake - 18 l/min
 Pressure - 3,0 m Intake - 2,0 m
 230 V 50/60 Hz
 3
 empty bath vessel
 exceeding temperature
 error temperature sensor
 error software and hardware
 RS 232 (V.24)
 Port for Pt 100
 260*130*310 mm / Depth from bath top edge 170 mm
 5,0 kg



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Accessories for Thermostats

High-grade steel vessel



B6

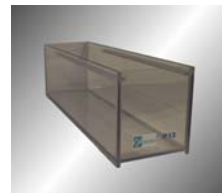


B22

Polycarbonate bath



P6



P13

Bath vessels made of high-grade steel, without bath cover

Order-No.	Type	Description / features	Application
3370.2.260 00	B2	2 Liter High-grade steel vessel	all E – Thermostats
3370.2.280 00	B4	4 Liter High-grade steel vessel	all E – Thermostats
3360.2.001 00	B6	6 Liter High-grade steel vessel	all E and C – Thermostats
3360.2.051 00	B12	12 Liter High-grade steel vessel	all E and C – Thermostats
3360.2.071 00	B16	16 Liter High-grade steel vessel	all E and C – Thermostats
3360.2.091 00	B22	22 Liter High-grade steel vessel	all E and C – Thermostats

Bath vessels, transparent without bath cover and without supporting plate

Order-No.	Type	Description / features	Application
M 09826	P5	5 litre Polycarbonate bath (max. 100°C)	all E – Thermostats
M 11974	P6	6 litre Polycarbonate bath (max. 100°C)	all E – Thermostats
M 11975	P8	8 litre Polycarbonate bath (max. 100°C)	all E - Thermostats
M 11976	P13	13 litre Polycarbonate bath (max. 100°C)	all E - Thermostats
M 11681	P20	20 litre Polycarbonate bath (max. 100°C)	all E - Thermostats

Accessories for bath thermostats

Order-No.	Type	Description / features	Application
3360.2.856 00	AH	Drain cock	B2 to B22
3370.3.378 01	TF	Pt100 temperature sensor	E20, C20
3370.2.262 00	BD 2	Bath cover 2	B2
3370.2.286 00	BD 4	Bath cover 4	B4
3370.2.057 00	BD 5	Bath cover 5	P5
3360.2.006 00	BD 6	Bath cover 6	B6
3360.2.056 00	BD 12	Bath cover 12	B12
3370.2.055 00	KE 1	Cooling coil	E5, E5s, E20
3370.2.220 00	AS	Connecting piece for external user	E5, E5s, E20
3360.2.175 00	Bv	Adjustable bath bridge (high-grade steel)	C5, C20
3365.2.100 00	ST	Adjustable stand	C5, C20
3366.1.000 01	SW	Software for E20, C20	E20, C20
3370.1.000 07	SK	Null modem cable	E20, C20
3370.2.056 00	KL	Clamp	E5, E5s, E20
3370.2.230 00	HB	Adjustable lifting bottom	B12 to B22



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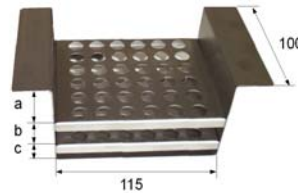
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Test Tube Racks

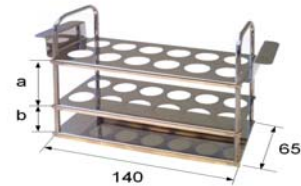
für Thermostat-/Bath Combinations B6-B16; P5; P6-P13



3360.2.xxx xx
B6 ... B16



3370.2.xxx xx
P6 ... P13



3490.2.xxx xx
P5

Order N°	Type	Dimensions in mm			Capacity of Tubes		Max. quantity of racks per device						
		a	b	c	St.	max. Ø	P5	P6	P8	P13	B6	B12	B16
3360.2.800 00	RG 6.10,5	20	30	85	56	10,5					1	4	
3360.2.801 00	RG 6.11,5	15	20	80	56	11,5					1	4	
3360.2.802 00	RG 6.14,5	50	30	35	33	14,5					1	4	
3360.2.803 00	RG 6.18,5	50	30	35	18	18,5					1	4	
3360.2.804 00	RG 6.32	50	30	35	6	32					1	4	
3360.2.805 00	RG 16.10,5	20	30	105	56	10,5							4
3360.2.806 00	RG 16.11,5	15	20	120	56	11,5							4
3360.2.807 00	RG 16.14,5	50	30	75	33	14,5							4
3360.2.808 00	RG 16.18,5	50	30	75	18	18,5							4
3360.2.809 00	RG 16.32	50	30	75	6	32							4
3370.2.201 00	RG18,5	33	25	17	20	18,5		2	3	4			
3370.2.202 00	RG 13,5	48	25	17	36	13,5		2	3	4			
3370.2.203 00	RG 11,5	33	25	17	36	11,5		2	3	4			
3370.2.204 00	RG 32	35	65	20	5	32		2	3	4			
3370.2.206 00	RG 18/tief	35	65	20	20	18		2	3	4			
3490.2.083 00	RG 5.11,5	20	30		27	10,5	2						
3490.2.084 00	RG 5.10,5	20	30		27	11,5	2						
3490.2.085 00	RG 5.14,5	50	30		21	14,5	2						
3490.2.086 00	RG 5.18,5	50	30		12	18,5	2						
3490.2.105 00	RG 5.32	50	50		3	32	2						

Liquids for thermostat- and cryostat baths

Order No.	Type	Description
M 11807	TF 30	Temperature range -30°C to + 85°C
M 11808	TF 60	Temperature range -60°C to + 5°C
M 11809	TF 100	Temperature range -40°C to + 100°C
M 11810	TF 140	Temperature range 0°C to + 140°C
M 11812	TF 250	Temperature range -30°C to + 250°C



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Water-Baths with Timer

High-grade steel baths with volumes from 1 to 80 litres



water bath WBT 6
with inclined high-grade steel cover



water bath WBT 22
with inclined high-grade steel cover



water bath WBT 12 with inclined cover,
additional flat cover and water bath rings

Specifications		WBT 1	WBT 6	WBT 12	WBT 22	WBT 50	WBT 80
admissible ambient temp.	°C	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
temperature stability	K	± 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
heating time (from 20 to 70°C)	min/l	<7,8	<4,5	<2,8	<1,8	<1,8	<1,6
bath volume	l	1 - 2	2 - 6	4 - 12	6 - 22	15 - 50	20 - 80
bath opening	mm	D = 130	215 x 230	390 x 230	455 x 230	500 x 250	620 x 420
bath depth	mm	120	120	120	170	360	300
temperature display		LED	LED	LED	LED	LED	LED
resolution	K	1	1	1	1	1	1
temperature setting		digital	digital	digital	digital	Digital	digital
resolution		1	1	1	1	1	1
safety class		1	1	1	1	1	1
heat power	KW	0,7	1,0	1,6	2,0		2,6
power supply	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
dimensions (wxdxh)	cm	23x24x22	32x34x26	49x34x26	57x34x31	60x36x46	73x53x45
weight ca.	kg	5	7,5	10	12,5	21	33

Temperature Controller:

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

Timer:

Three fixed times adjustable, timer adjustable within 0 - 99,99 minutes

Safety Function:

'dry-going-protection' integrated in the heater

Outlet:

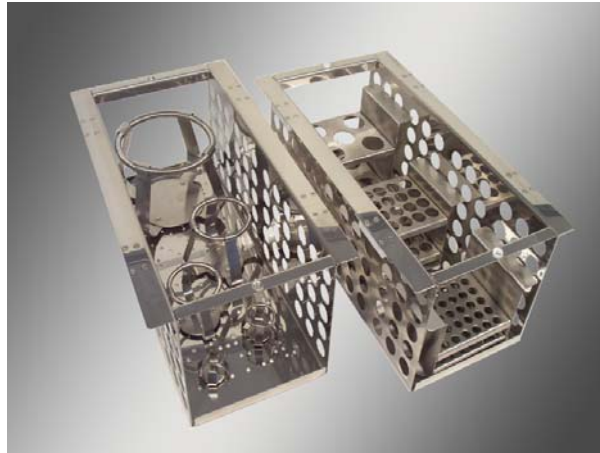
With seal screw / drain cock possible



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Shaking Water Bath SWB 20 with Timer



SWB 20

basket SKF and SKR

Technical data:

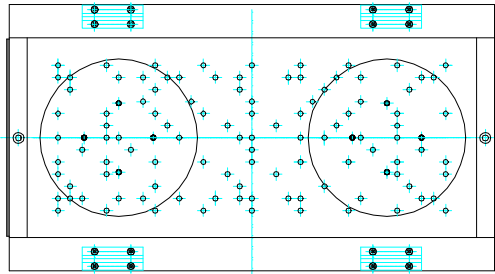
Temperature range:	25 ... 100 °C	Admissible ambient temp.:	1...40 °C
Temperature stability y:	±0,1 K	Bath capacity:	ca. 5-20 l
Temperature homogeneity:	< 0,5 K	Usable Bath opening (basket):	370×165 mm
Standard heating-up time:	<3,5 min/l	Bath depth (Shaking basket):	150 mm
Heat emission:	<100 Wh	Dimension (W×D×H)	730x340x300 mm
Heating output:	2000 W	Weight (without Water):	ca. 15 kg
Power supply:	230 V,50/60 Hz	Shaking frequency:	20...200 min ⁻¹ variable infinitely
Temperature display:	LED, digital	Shaking amplitude:	16 mm
Temperature controller:	microprocessor controlled, adjustable lower and upper set value limitation, adjustable key locking device, alarm optical and/or acoustic alarm, alarm circuit switch off, alarm information of temp- sensor cannot be switched off, temperature adjustment Celsius or Fahrenheit, timer adjustable within 0 - 99,99 minutes		

Safety function: 'Dry-protection' is integrated in the heater

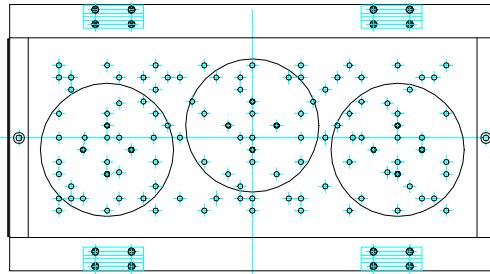
Standard shaking water baths are supplied with inclined cover and a basket for holding clamps for Erlenmeyer flasks. Additional baskets for test tube racks as well as necessary test tubes and holding clamps are available on separate order.



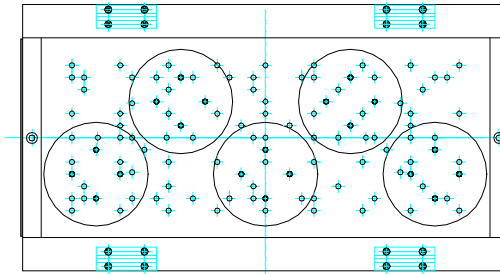
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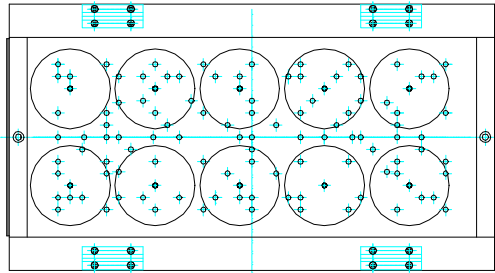
montage of 2 pieces holding clamp
for 1000 ml piston



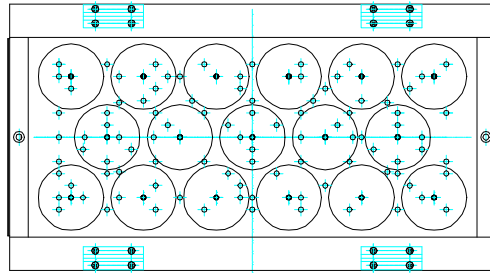
montage of 3 pieces holding clamp
for 500 ml piston



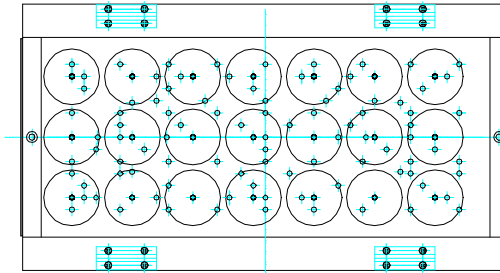
montage of 5 pieces holding clamp
for 250 ml piston



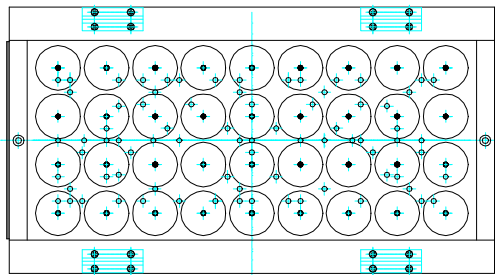
montage of 10 pieces holding clamp
for 100 ml piston



montage of 17 pieces holding clamp
for 50 ml piston



montage of 21 pieces holding clamp
for 25 ml piston

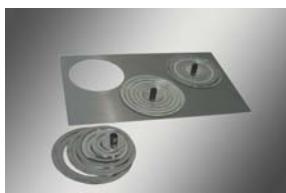


montage of 36 pieces holding clamp
for 10 ml piston

Face plan shake basket
SWB 20 – 3296.2.571 00



Accessories for water baths



Flat cover with
waterbath-rings



Spring clamps for
Erlenmeyer- flasks



Drain cock

Order-No.	Type	Description / features	Application
3295.2.251 00	BD 1	Round flat cover	WBT 1
3295.3.510 01	FL 6-1	Flat cover 6, 1 opening D=130mm	WBT 6
3295.3.510 05	FL 6-2	Flat cover 6, 2 openings D= 92mm	WBT 6
3295.3.510 02	FL 12-3	Flat cover 12, 3 openings D=130mm	WBT 12
3295.3.510 06	FL 12-6	Flat cover 12, 6 openings D= 92mm	WBT 12
3295.3.510 03	FL 22-3	Flachdeckel 22, 3 openings D=130mm	WBT 22
3295.3.510 07	FL 22-8	Flat cover 22, 8 openings D= 92mm	WBT 22
3295.2.818 00	WR 130	Water bath rings, 6-piece, D=130mm	1)
3295.2.819 00	WR 92	Water bath rings, 4-piece, D= 92mm	2)
3295.2.255 00	KR 1	Level controller	WBT 6-22
3360.2.856 00	AH	Drain cock, complete	3)
M 11896	FK 10	Holding clamp for Erlenmeyer flasks 10ml	SKF 20
M 11897	FK 25	Holding clamp for Erlenmeyer flasks 25ml	SKF 20
M 11898	FK 50	Holding clamp for Erlenmeyer flasks 50ml	SKF 20
M 11899	FK 100	Holding clamp for Erlenmeyer flasks 100ml	SKF 20
M 11900	FK 250	Holding clamp for Erlenmeyer flasks 250ml	SKF 20
M 11901	FK 500	Holding clamp for Erlenmeyer flasks 500ml	SKF 20
M 11902	FK 1000	Holding clamp for Erlenmeyer flasks 1000ml	SKF 20
3296.2.570 00	SKR 20	Basket for max. 4 test tube racks	SWB 20
3296.2.571 00	SKF 20	Basket for holding clamps for Erlenmeyer flasks	SWB 20

1) WBT 1, FL6-1; 12-3; 22-3

2) FL 6-2; 12-6; 22-8

3) WBT 1 to WBT 80 and SWB 20

Liquid Additive ThermoClean (concentrate)

Liquid-Additive for water baths and thermostats to prevent algae- and bacteria growth

Application: 2ml for 1,0 litre water (water stability 1 month)

Order-No.	Type	Description / features
M 11970	TC 100	ThermoClean 100ml
M 11971	TC 500	ThermoClean 500ml
M 11972	TC 5000	ThermoClean 5000ml
M 11973	TC 10	ThermoClean 10ml



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Test Tube Racks for water baths



Test Tube Racks round

for Water bath WBT 1 and
for devices with flat cover



3295.2.xxx xx

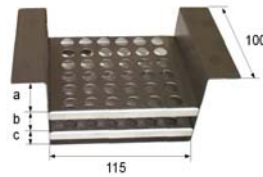
Order N°	Type	Dimensions in mm		Capacity for Tubes		Max. quantity of racks per device or flat cover 3295.3...			
		a	b	pcs.	max. Ø	WBT 1	WBT 6 ..510 01	WBT 12 ..510 02	WBT 22 ..510 03
3295.2.240 00	RGR 8.10,5	20	30	36	10,5	1	1	3	3
3295.2.242 00	RGR 8.11,5	15	20	36	11,5	1	1	3	3
3295.2.244 00	RGR 8.14,5	50	30	24	14,5	1	1	3	3
3295.2.246 00	RGR 8.18,5	50	30	16	18,5	1	1	3	3
3295.2.247 00	RGR 8.32	50	30	6	32	1	1	3	3

Test Tube Racks Standard

for Water Bath WBT 6 - 22 and for Shaking Water Bath SWB 20



WBT 6 ... WBT 22



3370.2.xxx xx
SWB 20

Order N°	Type	Dimensions in mm			Capacity for Tubes		Max. quantity of racks per device			
		a	b	c	pcs.	max.Ø	WBT 6	WBT 12	WBT 22	SWB 20
3295.2.391 00	RG 8.10,5	20	30	60	56	10,5	3	5	6	
3295.2.394 00	RG 8.11,5	15	20	75	56	11,5	3	5	6	
3295.2.392 00	RG 8.14,5	50	30	30	33	14,5	3	5	6	
3295.2.393 00	RG 8.18,5	50	30	30	18	18,5	3	5	6	
3295.2.395 00	RG 8.32	50	30	30	6	32	3	5	6	
3295.2.396 00	RG 8.49	30	30	30	3	49	3	5	6	
3295.2.397 00	RG 8.58	60	30	30	3	58	3	5	6	
3370.2.201 00	RG18,5	33	25	17	20	18,5				4
3370.2.202 00	RG 13,5	48	25	17	36	13,5				4
3370.2.203 00	RG 11,5	33	25	17	36	11,5				4
3370.2.204 00	RG 32	35	65	20	5	32				4
3370.2.206 00	RG 18/tief	35	65	20	20	18				4



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Table Cryostat -10 °C



K10 E5

Specifications		K10 E 5	K10 E 20
Temperature range	°C	-10...+100	-10...+100
Temperature stability	K	± 0,1	± 0,01
Bath volume	l	3	3
Bath depth	mm	130	130
Bath opening	mm	135 x 105	135 x 105
Pump flow rate max.	l/min	5	8
Pump pressure max.	bar	0,12	0,2
Programs		--	2 applets with 10 time-/temp. segments each
Temperature display		LED	digital, graphic display
resolution	K	0,1	0,1
Temperature setting		digital	digital, Touch Panel
resolution		0,1	0,1
Safety class DIN 12876		3	3
Interface		--	RS 232
External sensor connection		--	Pt 100
Heat Power	KW	1,0	1,8
Cooling power at 0 °C	W	130	130
Power supply	V/Hz	230/50	230/50
Dimensions (wxdxh)	mm	205x335x540	205x335x540
Weight	kg	ca. 17,5	ca. 17,5



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Table Cryostat -20 °C

K21: bath volume 8 litres
bath depth 150 mm

K22: bath volume 10 litres
bath depth 200 mm



K21 C5

Specifications *		K21/22 E 5	K21/22 E 20	K21/22 C 5	K21/22 C 20
			E20K with cryo control		C20K with cryo control
Temperature range	°C	-20...+100	-20...+100 (...+200 with E20K)	-20...+100	-20...+100 (...+200 with C20K)
Temperature stability	K	± 0,1	± 0,01	± 0,1	± 0,01
Bath volume	l	8 / 10	8 / 10	8 / 10	8 / 10
Bath depth	mm	150 / 200	150 / 200	150 / 200	150 / 200
Bath opening		235 x 165	235 x 165	235 x 165	235 x 165
Pump flow rate max.	l/min	5	8	20 / 18	20 / 18
Pump pressure max.	bar	0,12	0,2	0,3 / 0,2	0,3 / 0,2
Programs		--	2 applets with 10 time- /temp. segments each	--	2 applets with 10 time- /temp. segments each
Temperature display		digital	digital, graphic display	digital	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution		0,1	0,1	0,1	0,1
Safety class DIN 12876		3	3	3	3
Interface		--	RS 232	--	RS 232
External sensor connection		--	Pt 100	--	Pt 100
Heat power	KW	1,0	1,8	1,8	1,8
Cooling power at 0 °C	W	425	425	425	425
at -10 °C	W	100	100	100	100
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (wxdxh) K21	mm	305x450x600	305x450x600	305x450x570	305x450x570
Dimensions (wxdxh) K22	mm	305x450x700	305x450x700	305x450x670	305x450x670
Weight	kg	ca. 32	ca. 32	ca. 35	ca. 35

* Other cryostat/thermostat combinations see price list



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Table Cryostat -30 °C

K31: bath volume 11 litres
bath depth 150 mm

K32: bath volume 15 litres
bath depth 200 mm



K32 E5

Specifications *		K31/32 E 5	K31/32 E 20	K31/32 C 5	K31/32 C 20
			E20K with cryo control		C20K with cryo control
Temperature range	°C	-30...+100	-30...+100 (...+200 with E20K)	-30...+100	-30...+100 (...+200 with C20K)
Temperature stability	K	± 0,1	± 0,01	± 0,1	± 0,01
Bath volume	l	11 / 15	11 / 15	11 / 15	11 / 15
Bath depth	mm	150 / 200	150 / 200	150 / 200	150 / 200
Bath opening		300 x 190	300 x 190	300 x 190	300 x 190
Pump flow rate max.	l/min	5	8	20 / 18	20 / 18
Pump pressure max.	bar	0,12	0,2	0,3 / 0,2	0,3 / 0,2
Programs		--	2 applets with 10 time- /temp. segments each	--	2 applets with 10 time- /temp. segments each
Temperature display		digital	digital, graphic display	digital	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution		0,1	0,1	0,1	0,1
Safety class DIN 12876		3	3	3	3
Interface		--	RS 232	--	RS 232
External sensor connection		--	Pt 100	--	Pt 100
Heat power	KW	1,0	1,8	1,8	1,8
Cooling power at 0 °C	W	500	500	500	500
at -10 °C	W	200	200	200	200
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (wxdxh)	mm	400x480x710	400x480x710	400x480x680	400x480x680
Weight	kg	ca. 40	ca. 40	ca. 42	ca. 42

* Other cryostat/thermostat combinations see price list



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Cryostats 0 to - 40 °C

Table device

14 l bath volume
Bath depth 190mm



KT10 E20

Specifications *		KT E 5	KT 10 E 20	KT 30 C 5	KT 40 C 20
			E20K with cryo control		C20K with cryo control
Temperature range	°C	0...+100	-10...+100 (...+200 with E20K)	-30...+100	-40...+100 (...+200 with C20K)
Temperature stability	K	± 0,1	± 0,01	± 0,1	± 0,01
Bath volume	l	14	14	14	14
Bath opening	mm	210 x 270	210 x 270	210 x 270	210 x 270
Bath depth		190	190	190	190
Pump flow rate max.	l/min	5	8	20 / 18	20 / 18
Pump pressure max.	bar	0,12	0,2	0,3 / 0,2	0,3 / 0,2
Programs		--	2 applets with 10 time- /temp. segments each	--	2 applets with 10 time- /temp. segments each
Temperature display		digital	digital, graphic display	digital	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution		0,1	0,1	0,1	0,1
Safety class DIN 12876		3	3	3	3
Interface		--	RS 232	--	RS 232
External sensor connection		--	Pt 100	--	Pt 100
Heat power	KW	1,0	1,8	1,8	1,8
Cooling power at 0 °C	W	250	300	450	550
at -10 °C	W	--	--	250	400
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (wxdxh)	mm	400x450x730	400x450x730	400x450x700	400x450x700
Weight	kg	ca. 40	ca. 40	ca. 42	ca. 42

* Other cryostat/thermostat combinations see price list



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Cryostats -10 to -55 °C

Bottom-Stand device

**22 l bath volume
Bath depth 250mm
powerful cooling machine**



KB40 C20

Specifications *		KB 10 E 5s	KB 30 E 20	KB 40 C 5	KB 55 C 20
			E20K with cryo control		C20K with cryo control
Temperature range	°C	-10...+100	-30...+100 (...+200 with E20K)	-40...+100	-55...+100 (...+200 with C20K)
Temperature stability	K	± 0,1	± 0,01	± 0,1	± 0,01
Bath volume	l	22	22	22	22
Bath opening	mm	230 x 270	230 x 270	230 x 270	230 x 270
Bath depth		250	250	250	250
Pump flow rate max.	l/min	5	8	20 / 18	20 / 18
Pump pressure max.	bar	0,12	0,2	0,3 / 0,2	0,3 / 0,2
Programs		--	2 applets with 10 time- /temp. segments each	--	2 applets with 10 time- /temp. segments each
Temperature display		digital	digital, graphic display	digital	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution		0,1	0,1	0,1	0,1
Safety class DIN 12876		3	3	3	3
Interface		--	RS 232	--	RS 232
External sensor connection		--	Pt 100	--	Pt 100
Heat power	KW	1,8	1,8	1,8	1,8
Colling power at 0 °C	W	400	500	700	950
at -10 °C	W	200	350	600	800
Power Supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (wxdxh)	cm	55x65,5x102	55x65,5x102	55x65,5x99	55x65,5x99
Weight	kg	ca. 95	ca. 100	ca. 102	ca. 105

* Other cryostat/thermostat combinations see price list.



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Cryostat -75 °C

Bottom-Stand device

12 l bath volume

Bath depth 150mm

Powerful cooling machine



KB75 C20

Specifications *		KB 75 E 5s	KB 75 E 20	KB 75 C 5	KB 75 C 20
			E20K with cryo control		C20K with cryo control
Temperature range	°C	-75...+100	-75...+100 (...+200 with E20K)	-75...+100	-75...+100 (...+200 with C20K)
Temperature stability	K	± 0,1	± 0,01	± 0,1	± 0,01
Bath volume	l	12	12	12	12
Bath opening	mm	230x180	230x180	230x180	230x180
Bath depth		150	150	150	150
Pump flow rate max.	l/min	5	8	20 / 18	20 / 18
Pump pressure max.	bar	0,12	0,2	0,3 / 0,2	0,3 / 0,2
Programs		--	2 applets with 10 time- /temp. segments each	--	2 applets with 10 time- /temp. segments each
Temperature display		digital	digital, graphic display	digital	digital, graphic display
resolution	K	0,1	0,1	0,1	0,1
Temperature setting		digital	digital, Touch Panel	digital	digital, Touch Panel
resolution		0,1	0,1	0,1	0,1
Safety class DIN 12876		3	3	3	3
Interface		-	RS 232	-	RS 232
External sensor connection		-	Pt 100	-	Pt 100
Heat power	KW	1,8	1,8	1,8	1,8
Cooling power at 0 °C	W	800	800	800	800
at -10 °C	W	500	500	500	500
Power supply	V/Hz	230/50	230/50	230/50	230/50
Dimensions (wxdxh)	cm	55x65,5x102	55x65,5x102	55x65,5x99	55x65,5x99
Weight	kg	ca. 100	ca. 100	ca. 100	ca. 100

* Other cryostat/thermostat combinations see price list



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Circulation Cooler (FCKW-free)



KK 20...KK 100



KK 6... KK 14



KK 4 TB ...KK 8 TB

Cooler	Temperature range °C	Cooling Power in W		WxDxH cm (ca.)	Pump l/min. bar
		at 0 °C	at 15 °C		
Circulation Cooler with digital temperature display and setting					
KK 4-TBE	-10...+40	60	400	28x36x52	18 / 0,5
KK 6-TBE	-10...+40	100	600	28x36x52	18 / 0,5
KK 8-TBE	-10...+40	130	800	28x36x52	18 / 0,5
KK 6-TBC	-10...+40	100	600	28x36x52	18 / 0,5
KK 8-TBC	-10...+40	130	800	28x36x52	18 / 0,5
KK 6	-10...+40	100	600	36x42x57	30 / 0,6
KK 8	-10...+40	130	800	36x42x57	30 / 0,6
KK 10	-10...+40	200	1000	36x42x57	30 / 0,6
KK 12	-10...+40	250	1200	36x42x67	30 / 1,0
KK 14	-10...+40	280	1400	36x42x67	30 / 1,0
KK 20	-10...+40	500	2000	55x45x110	12 / 3,0
KK 25	-10...+40	500	2500	55x45x110	12 / 3,0
KK 30	-10...+40	800	3000	55x45x110	12 / 3,0
KK 40	-10...+40	1000	4000	55x45x110	12 / 3,0
KK 60	-10...+40	1600	6000	55x45x110	25 / 4,0
KK 80	-10...+40	2500	8000	80x100x160	25 / 4,0
KK 100	-10...+40	3500	10000	80x100x160	25 / 4,0
Circulation Cooler with analog temperature setting and capillaries tubing regulation					
KK 4-TB	-10...+40	60	400	28x36x52	18 / 0,5
KK 6-TB	-10...+40	100	600	28x36x52	18 / 0,5
KK 8-TB	-10...+40	130	800	28x36x52	18 / 0,5

Power supply up to type KK 20: 220 V / 50 Hz

Power supply starting with KK 30: 380 V / 50 Hz

On inquiry, different pump-solutions are available

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



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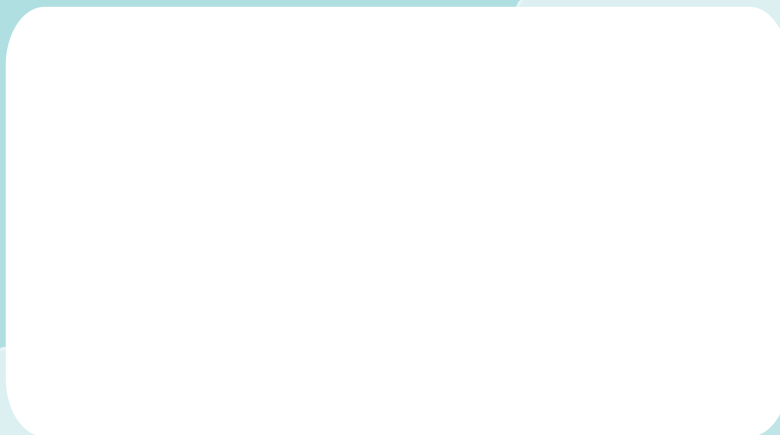
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