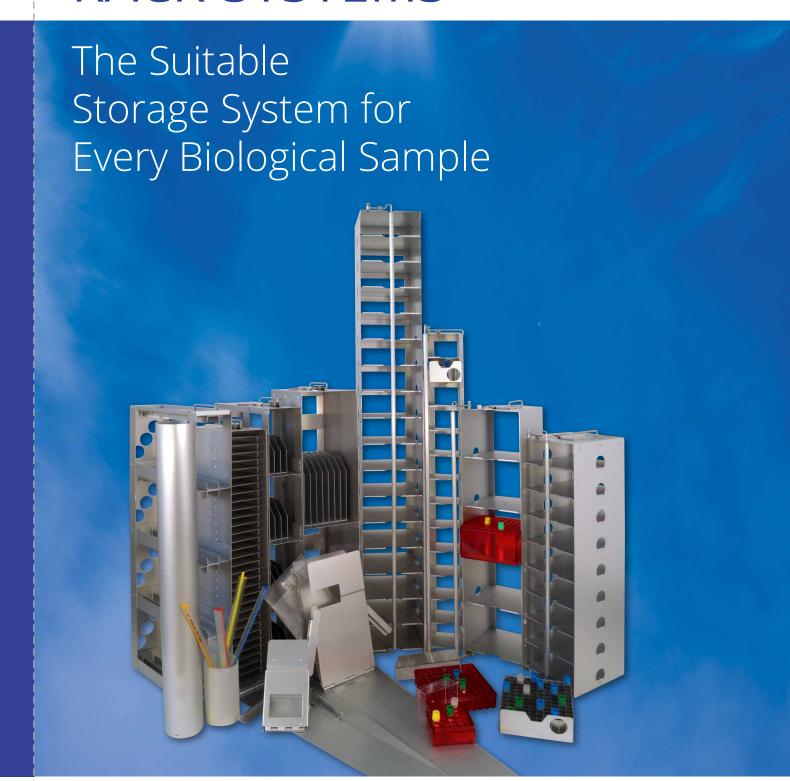


RACK-SYSTEMS



Cryotherm Rack-Systems





For Every Type of Usage



Highly Compact Storage for Vials, Freezing Bags and Straws

Drawers and Cryoboxes for Vials / Cryotubes



- various sizes (1.0 5 ml) in drawers made of aluminium with separator grids or in cryoboxes
- drawers with openings for quick liquid draining and front with extraction opening for easy handling
- cryoboxes made of special plastic with circulation function and crystal clear lid

SBS Racks (SBS Boxes) for Vials / Cryotubes



- storage of cryotubes in racks / boxes in SBS format
- suitable for all common manufacturers
- value-for-money, highly compact storage without locking at
- highly compact and safe storage with spring clip at every individual level
- highly compact and doubly safe through retaining lip in every individual level and extra pivoting drawer bar for
- maximum capacity as adjustable to every type and height

Cassettes for Bags

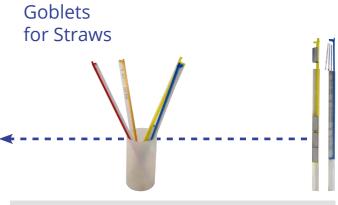


- aluminium to create a definite layer thickness for controlled
- foldable with hinge on the underside and lock with two locking leaves opposite each other
- window for label
- with ingenious stage to protect the ports





- for highly compact storage in canisters
- · easy-to-handle due to lifter in the canisters
- various sizes: 1.0 5 ml



- cryo-conservation of semen samples for insemination
- colour coding

Cryotherm Rack-Systems





Biological Samples Optimally Stored:

- Vials / Cryotubes
- Freezing Bags
- Straws







For the storage of biological samples in the liquid phase or in the racks they are made of aluminigas phase of liquid nitrogen. There are a large number of diverse sample packages by various manufachandling.

The Cryotherm-Module-System structures your vessels and makes safe storage easy and even more clear. All the storage racks ensure universal application.

Of course, customer specific solutions are possible - please ask for details!

In order to ensure an even distribution of heat within the storage um. Another strong point of this material is its low weight and easier

Convincing advantages:

- high storage capacity
- simple operation
- maximum protection for your samples
- safety through various locking points
- various set heights for flexible use and compatibility with all vessels
- variable arrangements for setting your own order system
- low tare weight due to sturdy aluminium construction
- clarity in the system
- transparency by means of sample management system
- high functionality
- customisation for any sample dimensions in request

Cryotherm rack of Rack of stainless steel aluminium with even with uneven heat distribution: heat distribution: Cryo vessels



Simple, Flexible and with a System

BIOSAFE® Vessels

were developed especially for cryogenic long-term preserving in laboratories and cryobanks.

Safe cold down to -180 °C in the gas phase and the inert atmosphere enable unproblematic freezing and storage of valuable medical and biological samples and materials.



- full storage capacity for gas phase storage
- nitrogen reserve under the platform suffices dependent on size of vessel for up to two weeks
- redundant hardware for software-independent monitoring of minimum- and maximum-alarm
- low temperatures of -180°C whether in small or large vessels and whether in wideneck vessels or vessels with a carousel
- service for initial start-up and execution of qualification (IQ/ OQ)
- service hotline

Stored Safely

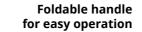




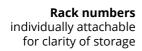
With Cryo-Storage Handling Safety of the Samples is the Highest Priority

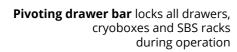


The Various Cryotherm Safety Systems Protect Your Material





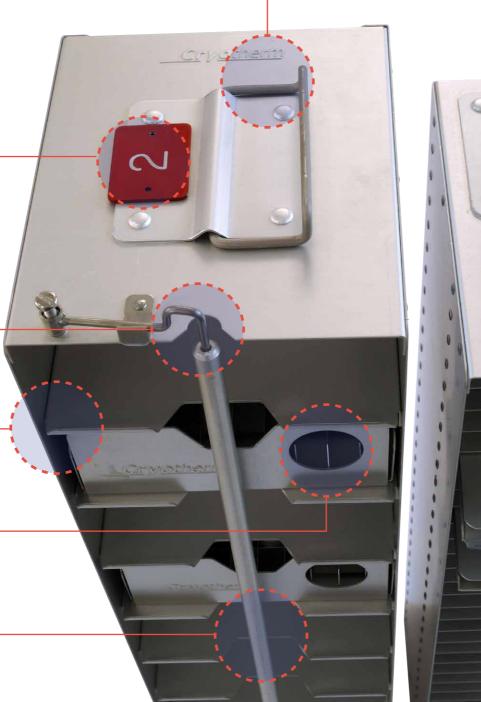




Even when the clamp is open a 3 mm front retaining lip in every section floor secures the drawer, cryobox or SBS rack against inadvertent slippage

Drawer front view is optimised for easy handling

Double locking of the drawers, cryoboxes and SBS racks against inadvertent falling out







Storage Capacity BIOSAFE® 120-220-420



Storage in Drawers

Inside Height = 625 mm Vials / Cryotubes of 2 ml: Racks with 10 Levels Vials / Cryotubes of 5 ml: Racks with 5 Levels

Storage in Cryoboxes

Inside Height = 625 mm Vials / Cryotubes of 2 ml: Racks with 10 Levels Vials / Cryotubes of 5 ml: Racks with 5 Levels







Rack of aluminium with 10 levels for vials

and pivoting drawer bar for the storage of

- a) 2 ml vials in drawers with grid dimensions (HxWxD): 620 x 140 x 166 mm
- b) 2 ml vials in drawers with grid dimensions (HxWxD): 620 x 85 x 85 mm



Rack of aluminium with 5 levels for vials

and pivoting drawer bar for the storage of

- c) 5 ml vials in drawers with grid
- dimensions (HxWxD): 620 x 140 x 166 mm
- d) 5 ml vials in drawers with grid

dimensions (HxWxD): 620 x 85 x 85 mm



Rack of aluminium with 10 levels for vials

and pivoting drawer bar for the storage of

- e) 2 ml vials in cryoboxes dimensions (HxWxD): 620 x 140 x 145 mm
- f) 2 ml vials in cryoboxes dimensions (HxWxD): 620 x 85 x 85 mm



Rack of aluminium with 5 levels for vials

and pivoting drawer bar for the storage of

- g) 5 ml vials in cryoboxes dimensions (HxWxD):
- h) 5 ml vials in drawers with grid dimensions (HxWxD):

620 x 85 x 85 mm

AFE® 120 BIOSAFE® 220 BIOSAFE® 420

20

200

200

7

70

21,750 20

100

7

35

8,875

12

120

120

40

60

20

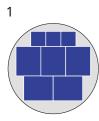
5,360

620 x 140 x 145 mm

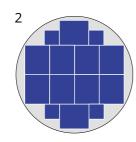
Vials / Cryotubes in Drawers Description	Dimensions (H x W x D) [mm]	Article-No.	Layout	BIOSAFE® 120 Capacity	BIOSAFE® 220 Capacity	BIOSAFE® 420 Capacity
a) rack for 2 ml vials in drawers, 10 levels	620 x 140 x 166	78202837	1, 2, 3	5	10	18
plus: drawer with grid for 2 ml vials, 120 pcs, Ø 12 mm	50 x 132 x 157	77031481		50	100	180
or drawer with grid for 2 ml vials, 80 pcs, Ø 14 mm	50 x 132 x 157	77031482		50	100	180
b) rack for 2 ml vials, 25 per level, 10 levels	620 x 85 x 85	78202835	1, 2, 3	3	4	6
plus: drawer with grid for 25 pcs 2 ml- / 5 ml vials	50 x 75 x 75	78202839		30	40	60
or cryobox, grid 5x5, for 25 pcs 2 ml vials	52 x 75 x 75	78212860		30	40	60
maximum storage capacity for 2 ml vials, Ø 12 mm				6,750	13,000	23,100
c) rack for 5 ml vials in drawers, 5 levels	620 x 140 x 166	78202838	1, 2, 3	5	10	18
plus: drawer with grid for 5 ml vials, 120 pcs, Ø 12 mm	100 x 132 x 157	77031483		25	50	90
or drawer with grid for 5 ml vials, 80 pcs, Ø 12 mm	100 x 132 x 157	77031484		25	50	90
d) rack for 5 ml vials, 25 per level, 5 levels	620 x 85 x 85	78202836	1, 2, 3	3	4	6
plus: drawer with grid for 25 pcs 2 ml- / 5 ml vials	50 x 75 x 75	78202839		15	20	30
maximum storage capacity for 5 ml vials, Ø 12 mm				3,375	6,500	11,550

Vials / Cryotubes in Cryoboxes Description	Dimensions (H x W x D) [mm]	Article-No.	Layout	BIOSAFE® Capac
e) rack for 2 ml vials in cryoboxes, 81/100, 10 levels	620 x 140 x 145	78202833	4, 5, 6	6
plus: cryobox grid 10x10 for 100 pcs 2 ml vials	53 x 132 x 132	78212859		60
or cryobox grid 9x9 for 81 pcs for 2 ml vials	53 x 132 x 132	78214364		60
f) rack for 2 ml vials, 25 per level, 10 levels	620 x 85 x 85	78202835	4, 5, 6	4
plus: cryobox grid 5x5 for 25 pcs 2 ml vials	52 x 75 x 75	78212860		40
maximum storage capacity for 2 ml vials Ø 12 mm				7,000
g) rack for 5 ml vials in cryoboxes 81, 5 levels	620 x 140 x 145	78202834	4, 5, 6	6
plus: cryobox grid 9x9 for 81 pcs 5 ml vials	95 x 132 x 132	78215707		30
h) rack for 5ml vials, 25 per level, 5 levels	620 x 85 x 85	78202836	4, 5, 6	4
plus: drawer with grid for 25 pcs 2 ml- / 5 ml vials	50 x 75 x 75	78202839		20
maximum storage capacity for 5ml vials Ø 12 mm				2.930

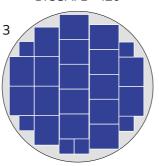




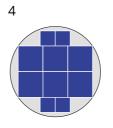
BIOSAFE® 220



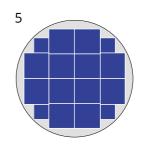
BIOSAFE® 420



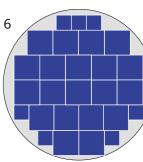
BIOSAFE® 120



BIOSAFE® 220



BIOSAFE® 420

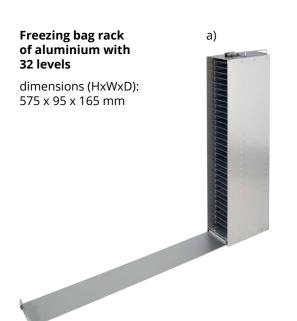


Storage Capacity BIOSAFE® 120-220-420



Storage of Freezing Bags in Cassettes Inside Height = 625 mm with 32 Levels

Storage of Freezing Bags in Cassettes Inside Height = 625 mm in 3 and 4 Levels





Freezing bag rack of aluminium with 10 levels

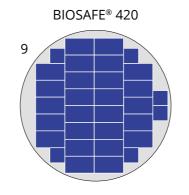
and pivoting drawer bar for the storage of

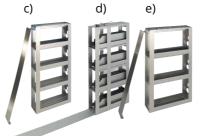
2 ml vials in drawers with

dimensions (HxWxD): 620 x 85 x 85 mm

Freezing Bags in Cassettes Description	Dimensions (H x W x D) [mm]	Article-No.	Layout	BIOSAFE® 120 Capacity	BIOSAFE® 220 Capacity	BIOSAFE® 420 Capacity
a) rack freezing bags in 32 levels	575 x 95 x 165	77031511	7, 8, 9	9	16	26
plus: cassette for freezing bags 4R9951, CryoMACS 50	161 x 85 x 12	77031514		288	512	832
b) rack for 2 ml vials, 25 per level, 10 levels	620 x 85 x 85	78202835	9			6
or: rack for 5 ml vials, 25 per level, 5 levels	620 x 85 x 85	78202836	9			6
maximum storage capacity for freezing bags 4R9951, CryoMACS 50				288	512	832
plus: maximum storage capacity for 2 ml vials Ø 12 mm						1,500

BIOSAFE® 120 BIOSAFE® 220





Freezing bag rack of aluminium

- c) **with 4 levels** 620 x 80 x 280 mm
- d) with 4 levels 620 x 80 x 285 mm
- e) with 3 levels 580 x 80 x 305 mm

f)	g)
4	- 5
	20
2 0	
100	4
10	

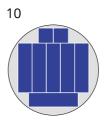
Freezing bag rack of aluminium with pivoting drawer bar

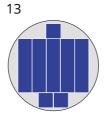
f) with 10 levels, 2 ml vials in drawers

- with grid 620 x 85 x 85 mm
- g) with 5 levels, 5 ml vials in drawers with grid 620 x 85 x 85 mm

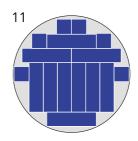
Freezing Bags in Cassettes Description	Dimensions (H x W x D) [mm]	Article-No.	Layout	BIOSAFE® 120 Capacity	BIOSAFE® 220 Capacity	BIOSAFE® 420 Capacity
c) rack freezing bags in 4 levels, 4 x 3 double sections	620 x 80 x 280	78202831	10, 11, 12	6	10	20
plus: cassette for freezing bags 4R9955, 4R9953, CryoMACS 500	270 x 140 x 12	77031488		144	240	480
d) rack freezing bags in 4 levels, 4 x 5 single sections	620 x 80 x 285	78213389	10, 11, 12	6	10	20
plus: cassette for freezing bags 4R9955, 4R9953, CryoMACS 500	270 x 140 x 12	77031488		120	200	400
f) rack for 2 ml vials 25 per level, 10 levels	620 x 85 x 85	78202835	10, 11, 12	2	4	2
g) rack for 5 ml vials 25 per level, 5 levels	620 x 85 x 85	78202836	10, 11, 12	2	4	2
maximum storage capacity for freezing bags 4R9955, 4R9953, CryoMACS 500				144	240	480
plus: maximum storage capacity for 2 ml vials Ø 12 mm				500	1,500	500
e) rack freezing bags in 3 levels, for 15 pcs Hemofreeze type Z 2003 / DF 700	580 x 80 x 305	78202832	13, 14, 15	5	10	18
plus: cassette for freezing bags Hemofreeze type Z 2003 / DF 700	300 x 160 x 12	77031509		75	150	270
f) rack for 2ml vials 25 per level 10 levels	620 x 85 x 85	78202835	13, 14, 15	3	2	2
g) rack for 5ml vials 25 per level 5 levels	620 x 85 x 85	78202836	13, 14, 15	3	2	2
maximum storage capacity for freezing bags Hemofreeze type Z 2003 / DF 700				75	150	270
plus: maximum storage capacity for 2 ml vials Ø 12 mm				750	500	500

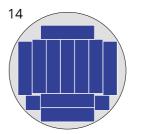
BIOSAFE® 120



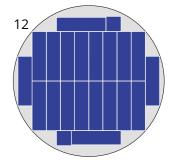


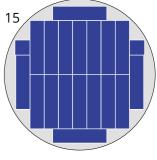
BIOSAFE® 220





BIOSAFE® 420





Storage Capacity BIOSAFE® 120-220-420



Storage of Vials / Cryotubes in Boxes / Racks in SBS Format (Description: Matrixbox / Wellplate / Microtiterplates) with the Basic Dimensions 127.76 x 85.48 mm

For the Storage of Straws (0.25 ml / 0.5 ml) in Flat Cassettes / Goblets

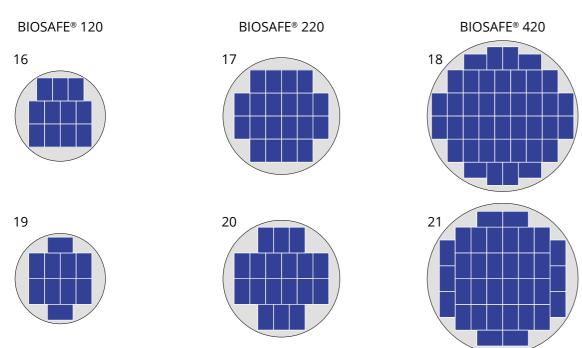


Racks of aluminium for SBS racks

- a) with 19/14/9 levels without pivoting drawer bar $620 \times 89 \times 130$ mm
- b) with 19/14/9 levels with spring clips 620 x 89 x 130 mm
- c) with 16/13/9 levels with pivoting drawer bar 620 x 89 x 145 mm

SBS Racks (127.76x85.48) in Racks Without Pivoting Drawer Bars or Spring Clips in Each Level or Level and Pivoting Drawer Bars Description	Dimensions (H x W x D) [mm]	Article-No.	Layout	BIOSAFE® 120 Capacity	BIOSAFE® 220 Capacity	BIOSAFE® 420 Capacity
a) rack for SBS racks (20-30 mm high), 19 levels without locking	620 x 89 x 130	*	16, 17, 18	11	20	40
rack for SBS racks (30-40 mm high), 14 levels without locking	620 x 89 x 130	*	16, 17, 18	11	20	40
rack for SBS racks (40-62 mm high), 9 levels without locking	620 x 89 x 130	*	16, 17, 18	11	20	40
b) rack for SBS racks (20-30 mm high), 19 levels with spring clips	620 x 89 x 130	*	16, 17, 18	11	20	40
rack for SBS racks (30-40 mm high), 14 levels with spring clips	620 x 89 x 130	*	16, 17, 18	11	20	40
rack for SBS racks (40-62 mm high), 9 levels with spring clips	620 x 89 x 130	*	16, 17, 18	11	20	40
c) rack for SBS racks (20-30 mm high), 16 levels with pivoting drawer bar	620 x 89 x 145	*	19, 20, 21	10	18	34
rack for SBS racks (30-40 mm high), 13 levels with pivoting drawer bar	620 x 89 x 145	*	19, 20, 21	10	18	34
rack for SBS racks (40-62 mm high), 9 levels with pivoting drawer bar	620 x 89 x 145	*	19, 20, 21	10	18	34

^{*} on request





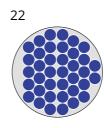


Goblets Ø 65 x 120 mm

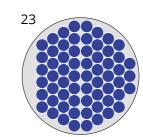
Straws in Canisters	Dimensions			BIOSAFE®	BIOSAFE®	BIOSAFE®
Description	(Ø x H) [mm]	Article-No.	Layout	120 Capacity	220 Capacity	420 Capacity
a) canister for goblets with lifter, 620 mm high, max. 4 goblets	Ø 70 x 620	78213016	22, 23, 24	38	63	110
plus: b) goblet diameter 65 mm, 120 mm high	Ø 65 x 120	78212792		152	252	440
maximum storage capacity for straws 0.25 ml				85,120	141,120	246,400
maximum storage capacity for straws 0.5 ml				31,920	52,920	92,400

Explanatory note: 1 goblet (Ø 65 x 120 mm) contains max. 560 pieces 0.25 ml straws or max. 210 pieces 0.5 ml straws

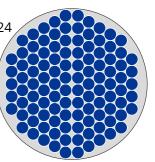




BIOSAFE® 220



BIOSAFE® 420



12

Storage Capacity BIOSAFE® 500-600-1000-1400



Storage in Drawers

Inside Height = 680, 800, 1100 mm Vials / Cryotubes with 2 ml: Racks with 12, 13, 18 Levels Vials / Cryotubes with 5 ml: Racks with 6, 7, 10 Levels

Storage in Cryoboxes

Inside Height = 680, 800, 1100 mm Vials / Cryotubes with 2 ml: Racks with 12, 13, 18 Levels











- a) for 2 ml vials with 12/13/18 levels in drawers
- b) for 2 ml vials with 11/13/18 levels, 25 per level
- c) for 5 ml vials with 6/7/10 levels in drawers
- d) for 5 ml vials with 6/7/10 levels, 25 per level

Vials / Cryotubes in Drawers Description	Dimensions (H x W x D) [mm]	Article-No.	Layout	BIOSAFE® 500 Capacity	BIOSAFE® 600 Capacity	BIOSAFE® 1000 Capacity	BIOSAFE® 1400 Capacity
a) rack for 2 ml vials in drawers, 12 levels	727 x 140 x 166	78220222	26, 27		24	34	
rack for 2 ml vials in drawers, 13 levels	800 x 140 x 166	78214754	25	16			
rack for 2 ml vials in drawers, 18 levels	1100 x 140 x 166	78221089	27				34
plus: drawer with grid for 2 ml vials, 120 pcs, Ø 12 mm	50 x 132 x 157	77031481		208	288	408	612
plus: drawer with grid for 2 ml vials, 80 pcs, Ø 14 mm	50 x 132 x 157	77031482		208	288	408	612
b) rack for 2 ml vials 25 per level, 11 levels	680 x 85 x 85	78213481	26, 27		4	8	
rack for 2 ml vials 25 per level, 13 levels	800 x 85 x 85	78214755	25	4			
rack for 2 ml vials 25 per level, 18 levels	1100 x 85 x 85	78221090	27				8
plus: drawer with grid for 25 pcs, 2 ml / 5 ml vials	50 x 75 x 75	78202839		52	44	88	144
or cryobox, grid 5x5 for 25 pcs, 2 ml vials	52 x 75 x 75	78212860		52	44	88	144
maximum storage capacity for 2 ml vials Ø 12 mm				26,260	35,660	51,160	77,040
c) rack for 5 ml vials in drawers 6 levels	680 x 140 x 166	77031480	26, 27		24	34	
rack for 5 ml vials in drawers 7 levels	800 x 140 x 166	78215713	25	16			
rack for 5 ml vials in drawers 10 levels	1100 x 140 x 166	78209913	27				34
plus: drawer with grid for 5 ml vials 120 pcs, Ø 12 mm	100 x 132 x 157	77031483		112	144	204	340
or drawer with grid for 5 ml vials 80 pcs Ø 14 mm	100 x 132 x 157	77031484		112	144	204	340
d) rack for 5 ml vials 25 per level, 6 levels	680 x 85 x 85	78215714	26, 27		4	8	
rack for 5 ml vials 25 per level, 7 levels	800 x 85 x 85	78215715	25	4			
rack for 5 ml vials 25 per level, 10 levels	1100 x 85 x 85	78215716	27				8
plus: drawer with grid for 25 pcs 2 ml / 5 ml vials	50 x 75 x 75	78202839		28	24	48	80
maximum storage capacity for 5 ml vials Ø 12 mm				14,140	17,880	25,680	42,800



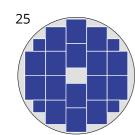


Rack of aluminium for vials

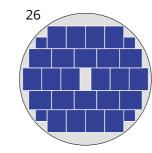
- e) for 2 ml vials with 12/13/18 levels in cryoboxes
- f) for 2 ml vials with 11/13/18 levels, 25 per level

Vials / Cryotubes in Cryoboxes	Dimensions (H x W x D)	Article-No.	Layout	BIOSAFE® 500	BIOSAFE® 600	BIOSAFE® 1000	BIOSAFE® 1400
Description	[mm]	Alticic No.	Layout	Capacity	Capacity	Capacity	Capacity
e) rack for 2 ml vials in cryoboxes, 81/100, 12 levels	727 x 140 x 145	78215717	29, 30		26	38	
rack for 2 ml vials in cryoboxes, 81/100, 13 levels	800 x 140 x 145	78213935	28	16			
rack for 2 ml vials in cryoboxes, 81/100, 18 levels	1100 x 140 x 145	78215718	30				38
plus: cryobox grid 10x10 for 100 pcs 2 ml vials	53 x 132 x 132	78212859		208	312	456	684
or cryobox grid 9x9 for 81 pcs 2 ml vials	53 x 132 x 132	78214364		208	312	456	684
f) rack for 2 ml vials 25 per level, 11 levels	680 x 85 x 85	78213481	29, 30		12	4	
rack for 2 ml vials 25 per level, 13 levels	800 x 85 x 85	78214755	28	6			
rack for 2 ml vials 25 per level, 18 levels	1100 x 85 x 85	78221090	30				4
plus: drawer with grid for 25 pcs 2 ml / 5 ml vials	50 x 75 x 75	78202839		78	132	44	72
or cryobox grid 5x5 for 25 pcs, 2 ml vials	52 x 75 x 75	78212860		78	132	44	72
maximum storage capacity for 2 ml vials Ø 12 mm				22,750	32,100	46,700	70,200

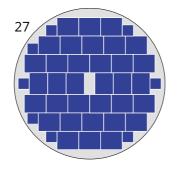
BIOSAFE® 500



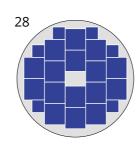
BIOSAFE® 600



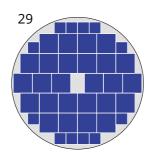
BIOSAFE® 1000/1400



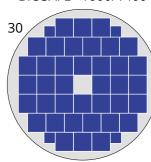
BIOSAFE® 500



BIOSAFE® 600



BIOSAFE® 1000/1400



Storage Capacity BIOSAFE® 500-600-1000-1400



Racks for Freezing Bags in Cassettes

Freezing bag rack of aluminium with 40 levels dimensions (HxWxD): 715 x 95 x 165 mm

Freezing bag rack of aluminium with 45 levels

c)

Freezing bag rack

dimensions (HxWxD):

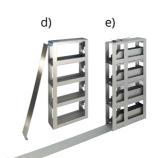
1100 x 95 x 165 mm

of aluminium

with 60 levels

dimensions (HxWxD): 800 x 95 x 165 mm

Racks for Freezing Bags in Cassettes



Freezing bag rack of aluminium with 4 levels

- d) 4 x 3 double sections dimensions (HxWxD): 620 x 80 x 280 mm
- e) 4 x 5 single sections dimensions (HxWxD): 620 x 80 x 285 mm

of alumi with 5 le 5 x 2 dou dimensio 780 x 52

Freezing bag rack of aluminium with 5 levels

5 x 2 double sections dimensions (HxWxD): 780 x 52 x 280 mm

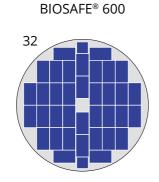


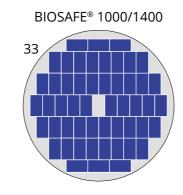
Freezing bag rack of aluminium with 7 levels

7 x 3 double sections dimensions (HxWxD): 1100 x 80 x 280 mm

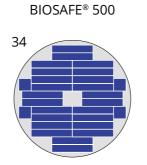
Layout 32, 33 31 33	BIOSAFE® 500 Capacity 24	BIOSAFE® 600 Capacity 36	BIOSAFE® 1000 Capacity 52	BIOSAFE® 1400 Capacity
32, 33	Capacity 24	Capacity	Capacity	
31		36	52	
33				
				52
1	1,080	1,440	2,080	3,120
		2		
i	2			
)				
1	26	22		
)	26	22		
	1,080	1,440	2,080	3,120
	650	550		
9	1 5 0 9 0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 5 5 2 2 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2 5 2 6 2 7 9 26 22 9 26 22 1,080 1,440 2,080

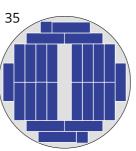
	BIOSAFE® 500
31	

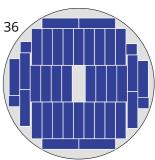




Freezing Bags in Cassettes	Dimensions (H x W x D)	Article-No.	Layout	BIOSAFE® 500	BIOSAFE® 600	BIOSAFE® 1000	BIOSAFE® 1400
Description	[mm]			Capacity	Capacity	Capacity	Capacity
d) rack for freezing bags in 4 levels 4 x 3 double sections	620 x 80 x 280	78202831	35, 36		24	36	
plus: cassette for freezing bags 4R9955, 4R9953, CryoMACS 500	270 x 140 x 12	77031488			576	864	
e) rack for freezing bags in 4 levels 4 x 5 single sections	620 x 80 x 285	78213389			24	36	
plus: cassette for freezing bags 4R9955, 4R9953, CryoMACS 500	270 x 140 x 12	77031488			480	720	
f) rack for freezing bags in 5 levels 5 x 2 double sections	780 x 52 x 280	78214757	34	24			
plus: cassette for freezing bags 4R9955, 4R9953, CryoMACS 500	270 x 140 x 12	77031488		480			
g) rack for freezing bags in 7 levels 7 x 3 double sections	1100 x 80 x 280	78215711	36				36
plus: cassette for freezing bags 4R9955, 4R9953, CryoMACS 500	270 x 140 x 12	77031488					1,512
rack for 2 ml vials 25 per level, 11 levels	680 x 85 x 85	78213481	35, 36		2	4	
rack for 2 ml vials 25 per level, 13 levels	800 x 85 x 85	78214755		4			
rack for 2 ml vials 25 per level, 18 levels	1100 x 85 x 85	78221090	36				4
plus: drawer with grid for 25 pcs 2 ml / 5 ml vials	50 x 75 x 75	78202839		52	22	44	72
or cryobox grid 5x5 for 25 pcs, 2 ml vials	52 x 75 x 75	78212860		52	22	44	72
max. storage capacity f. freezing p. 4R9955, 4R9953, CryoMACS 500		77031488		480	576	864	1,512
plus: maximum storage capacity for 2 ml vials Ø 12 mm				1,300	550	1,100	1,800







BIOSAFE® 600 BIOSAFE® 1000/1400



Racks for Freezing Bags in Cassettes

For Storage of Vials / Cryotubes in Boxes / Racks in SBS Format (Description: Maxtrixbox / Wellplate / Microtiterplates) with the Basic Dimensions = 127.76 x 85.48 mm



Freezing bag rack of aluminium with 2 levels

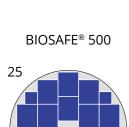
dimensions (HxWxD): 680 x 140 x 166 mm



Freezing bag rack of aluminium with 3 levels

dimensions (HxWxD): 1100 x 140 x 166 mm

Freezing Bags in Cassettes Description	Dimensions (H x W x D) [mm]	Article-No.	Layout	BIOSAFE® 500 Capacity	BIOSAFE® 600 Capacity	BIOSAFE® 1000 Capacity	BIOSAFE® 1400 Capacity
a) rack for freezing bags in 2 levels, for 18 pcs Hemofreeze type Z 2003	680 x 140 x 166	77031508	25, 26, 27	16	24	34	
b) rack for freezing bags in 3 levels, for 27 pcs Hemofreeze type Z 2003	1100 x 140 x 166	78215712	27				34
plus: cassette for freezing bags Hemofreeze type Z 2003	300 x 160 x 12	77031509		288	432	612	918
rack for 2 ml vials 25 per level, 11 levels	680 x 85 x 85	78213481	26		4	8	
rack for 2 ml vials 25 per level, 13 levels	800 x 85 x 85	78214755	25	4			
rack for 2 ml vials 25 per level, 17 levels	1100 x 85 x 85	78213385	27				8
plus: drawer with grid for 25 pcs 2 ml / 5ml vials	50 x 75 x 75	78202839		52	44	88	144
or cryobox grid 5x5 for 25 pcs, 2 ml vials	52 x 75 x 75	78212860		52	44	88	144
maximum storage capacity f. freezing p. Hemofreeze type Z 2003		77031509		288	432	612	918
plus: maximum storage capacity for 2 ml vials Ø 12 mm				1,300	1,100	2,200	3,600



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BIOSAFE® 600

27

BIOSAFE® 1000/1400

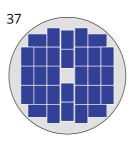
Racks of aluminium for SBS racks

- a) without locking 620 x 89 x 130 mm / 800 x 89 x 130 mm / 1100 x 89 x 130 mm
- b) with spring clips 620 x 89 x 130 mm / 800 x 89 x 130 mm / 1100 x 89 x 130 mm

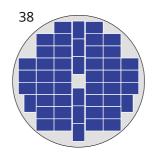
SBS Racks (127.76 x 85.48) in Racks Without Locking or with Spring Clips in Each Level or with Levels and Clamps Description	Dimensions (H x W x D) [mm]	Article- No.	Layout	BIOSAFE® 500 Capacity	BIOSAFE® 600 Capacity	BIOSAFE® 1000 Capacity	BIOSAFE® 1400 Capacity
a) rack for SBS racks (20-30 mm high) 21 levels, without locking	680 x 89 x 130	*	38, 39		48	72	
rack for SBS racks (30-40 mm high) 16 levels, without locking	680 x 89 x 130	*	38, 39		48	72	
rack for SBS racks (40-62 mm high) 10 levels, without locking	680 x 89 x 130	*	38, 39		48	72	
rack for SBS racks (20-30 mm high) 24 levels, without locking	800 x 89 x 130	*	37	30			
rack for SBS racks (30-40 mm high) 18 levels, without locking	800 x 89 x 130	*	37	30			
rack for SBS racks (40-62 mm high) 12 levels, without locking	800 x 89 x 130	*	37	30			
rack for SBS racks (20-30 mm high) 12 levels, without locking	1100 x 89 x 130	*	39				72
rack for SBS racks (30-40 mm high) 26 levels, without locking	1100 x 89 x 130	*	39				72
rack for SBS racks (40-62 mm high) 17 levels, without locking	1100 x 89 x 130	*	39				72
b) rack for SBS racks (20-30 mm high) 21 levels, with spring clips	680 x 89 x 130	*	38, 39		48	72	
rack for SBS racks (30-40 mm high) 16 levels, with spring clips	680 x 89 x 130	*	38, 39		48	72	
rack for SBS racks (40-62 mm high) 10 levels, with spring clips	680 x 89 x 130	*	38, 39		48	72	
rack for SBS racks (20-30 mm high) 24 levels, with spring clips	800 x 89 x 130	*	37	30			
rack for SBS racks (30-40 mm high) 18 levels, with spring clips	800 x 89 x 130	*	37	30			
rack for SBS racks (40-62 mm high) 12 levels, with spring clips	800 x 89 x 130	*	37	30			
rack for SBS racks (20-30 mm high) 12 levels, with spring clips	1100 x 89 x 130	*	39				72
rack for SBS racks (30-40 mm high) 26 levels, with spring clips	1100 x 89 x 130	*	39				72
rack for SBS racks (40-62 mm high) 17 levels, with spring clips	1100 x 89 x 130	*	39				72

^{*} on request

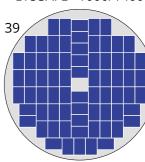
BIOSAFE® 500



BIOSAFE® 600



BIOSAFE® 1000/1400



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Storage Capacity BIOSAFE® 500-600-1000-1400



For Storage of Vials / Cryotubes in Boxes / Racks in SBS Format (Description: Maxtrixbox / Wellplate / Microtiterplates) with the Basic Dimensions = 127.76 x 85.48 mm

For Storage of Straws (0.25 ml / 0.5 ml) in Flat Cassettes / Goblets

Racks of aluminium for SBS racks

c) with pivoting drawer bar 620 x 89 x 145 mm 800 x 89 x 145 mm 1100 x 89 x 145 mm

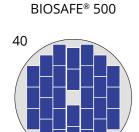
SBS Racks (127.76 x 85.48) in Racks Without Locking or with Spring Clips in Each Level or with Levels and Clamps Description	Dimensions (H x W x D) [mm]	Article- No.	Layout	BIOSAFE® 500 Capacity	BIOSAFE® 600 Capacity	BIOSAFE® 1000 Capacity	BIOSAFE® 1400 Capacity
c) rack for SBS racks (20-30 mm high), 18 levels, with pivoting drawer bar	680 x 89 x 145	*	41, 42		42	64	
rack for SBS racks (30-40 mm high), 14 levels, with pivoting drawer bar	680 x 89 x 145	*	41, 42		42	64	
rack for SBS racks (40-62 mm high), 9 levels, with pivoting drawer bar	680 x 89 x 145	*	41, 42		42	64	
rack for SBS racks (20-30 mm high), 21 levels, with pivoting drawer bar	800 x 89 x 145	*	40	28			
rack for SBS racks (30-40 mm high), 17 levels, with pivoting drawer bar	800 x 89 x 145	*	40	28			
rack for SBS racks (40-62 mm high), 11 levels, with pivoting drawer bar	800 x 89 x 145	*	40	28			
rack for SBS racks (20-30 mm high), 30 levels, with pivoting drawer bar	1100 x 89 x 145	*	42				64
rack for SBS racks (30-40 mm high), 23 levels, with pivoting drawer bar	1100 x 89 x 145	*	42				64
rack for SBS racks (40-62 mm high), 16 levels, with pivoting drawer bar	1100 x 89 x 145	*	42				64

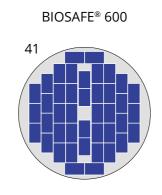
^{*} on request

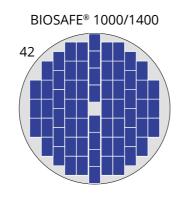


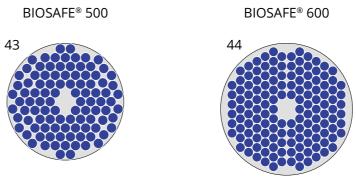
Straws in Canisters	Dimensions	Article-No.	Lavout	BIOSAFE®	BIOSAFE® 600	BIOSAFE® 1000	BIOSAFE® 1400
Description	(Ø x H) [mm]	AFIICIE-NO.	Layout	500 Capacity	Capacity	Capacity	Capacity
a) canister for goblets with lifter 620 mm high, max. 4 goblets	Ø 70 x 620	78213016	44, 45		120	212	
b) canister for goblets with lifter 800 mm high, max. 5 goblets	Ø 70 x 800	78215719	43	100			
c) canister for goblets with lifter 1100 mm high, max. 7 goblets	Ø 70 x 1100	78215720	45				212
plus: goblets diameter 65 mm, 120 mm high	Ø 65 x 120	78212792		500	480	848	1,484
maximum storage capacity for straws 0.25 ml				280,000	268,800	474,880	831,040
maximum storage capacity for straws 0.5 ml				105,000	100,800	178,080	311,640

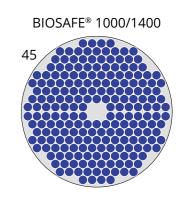
Explanatory note: 1 goblet (Ø 65 x 120 mm) contains max. 560 pcs 0.25 ml straws or max. 210 pcs 0.5 ml straws











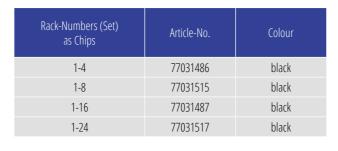
Customisation

















Cassettes with various locks Frame for cryotubes and cassettes







Rack with swing door



Canister with lifter (4 floors)

Further variations are possible. Please contact us to discuss your requirements.

NITROGEN VESSELS

APOLLO® LIN Supply and Storage Vessel (50 - 350 l) · JUNO® LIN Supply and Storage Vessel (30 l) SIRIUS® LIN Supply and Storage Vessel (1,000 - 2,000 l) · SATURN® LIN Transport Vessel (50 - 300 l) MERKUR® LIN Transport Tank (500 - 3,000 l) · STELLA® Working Dewar (0.5 - 10,000 l) · LAB® Dewar Series (4 - 50 l)



BIOSAFE® SYSTEMS / LIFE SCIENCE

BIOSAFE® MD ß Sample Storage System (Medical Product) (120 - 1,400 l) · BIOSAFE® SC ß Sample Storage System (120 - 1,400 l) BIOSAFE CONTROL® ß · CRYO-MESSENGER® Remote Monitoring System · BIOSAFE® X/S-Series · Vapor Shipper STELLA® Working Dewar (0.5 - 10,000 l) · Controlled Rate Freezers (3.3 - 16 l)



BIOSAFE® RACK-SYSTEMS

Racks · Drawers and Cryoboxes for Vials · Canisters for Straws in Goblets · SBS Boxes (Microtiter) Cassettes for Freezing Bags



HELIUM VESSELS

HELIOS® LHe Storage Vessel (100 - 15,000 l) STRATOS® LHe Transport Vessel (100 - 1,000 l) · LHe Siphon



OTHER VESSELS

HYDROS® LH, Transport Vessel (1,000 - 15,000 l) · STRATOS® Transport Vessel (100-1,000 l) APOLLO® Supply and Storage Vessel (50 - 350 l) · MERKUR® Transport Tank (500-3,000 l)



CRYO LINE SYSTEMS

Rigid Line Systems (DN 14-300) · Flexible Line Systems (DN 20-150) · Phase Separator Stations (50 - 200 l) Gas Separator (5 l) · LHe Multiline



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CRYOGEN® TRANS-SYSTEM



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Contact

Cryotherm GmbH & Co. KG Euteneuen 4 57548 Kirchen/Sieg Germany

6: +49 27 41 95 85-0

⊕: +49 27 41 69 00

∞: info@cryotherm.de

: www.cryotherm.de

Cryotherm Inc. 5126 South Royal Atlanta Drive Tucker, GA 30084 USA

: www.cryotherm.de

