

BIOSAFE[®] VENUS

The safe Storage for your Samples.



All Advantages at a Glance



The safe aluminum storage vessel. Ideal for biological-medical samples.

- ▶ For up to 6,000 samples 2 ml vials in gas or liquid phase
- ▶ Storage capacity for straws on request
- ▶ Storage capacity for bags on request

More than
55 Excellence
YEARS in Engineering
1964 - 2019

Technical Data

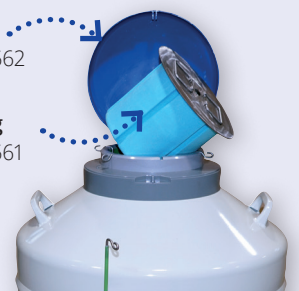


BIOSAFE [®] VENUS		150	180
Neck diameter	[mm]	216	216
Weight, empty (as delivered, with rack system and BIOSAFE [®] smart electronics)	[kg]	96	105
Weight, full (in real operation with LIN, max.)	[kg]	192	245
Total height	[mm]	1.100	1.215
Height of vessel	[mm]	950	1.065
Height of roller base	[mm]	140	140
Diameter, outside	[mm]	678	678
Depth max.	[mm]	840	840
Width max.	[mm]	820	820
Daily evaporation	[%/day]*	0,79	0,54
Static holding time	[days]*	148	181
Static holding time	[days]*	13	13

*) The daily evaporation rate and the static holding time were determined at 20 degrees Celsius, 1013 hectopascal, with the vessel standing still, lid closed and without accessories. These are nominal values that may change depending on the use and age of the container.

Folding lid
item no. 78217562

Insulation plug
item no. 78217561



Smart-rack system for a comfortable and safe access to your samples



Individual numbering for clear placement

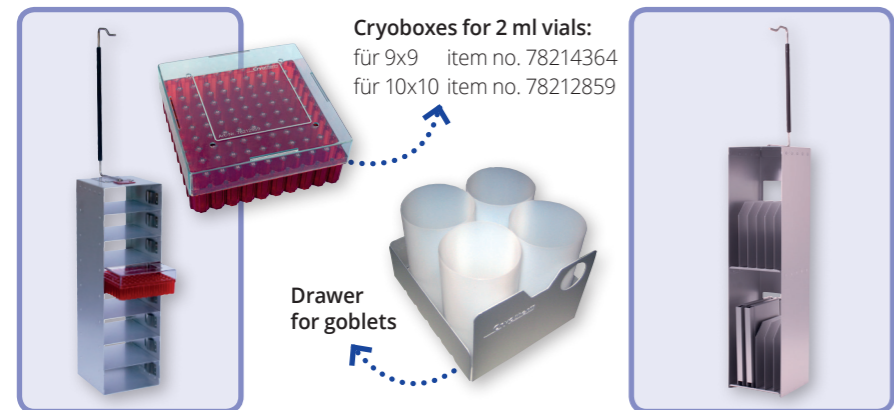
Storage Capacities



BIOSAFE® VENUS		150	180
Liquid phase / Gas phase			
Nominal volume [l]		120	175
Racks (aluminum) [piece]		6	6
Number of levels usable [quantity]		8	7/8
2 ml cryogenic vials in 10x10 boxes [up to]		4.800	4.200
Size of cryogenic boxes 10x10 (hxwd) [mm]		132 x 132 x 53	132 x 132 x 53
Daisy goblets [up to]		48	72
Bags 250/500 ml (77031488) [up to]		-	54

Further vessel sizes and accessories upon request.

Dedicated inventory system & accessories for the VENUS



Cryoboxes for 2 ml vials:
für 9x9 item no. 78214364
für 10x10 item no. 78212859

Drawer for goblets

Smart rack for vials

VENUS 150 item no. 78217554
VENUS 180 item no. 78217555

Rack for goblets

VENUS 150 item no. 78217556
VENUS 180 item no. 78217557

Smart rack for bags

VENUS 150 item no. 78217558
VENUS 180 item no. 78217559



Cryo-Gloves

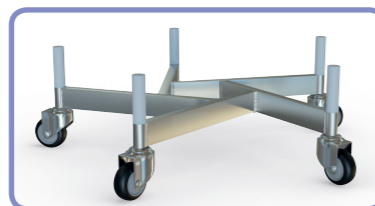
Length: ca. 400 mm
item no.

Size S: 78400843
Size M: 78400180
Size L: 78400887
Size XL: 78400856



Eye protection

item No. 77031452



Roller base

Ø 687 mm (interior), height 140 mm
item no. 78217560



Gas phase storage

Your samples are stored in the gas phase, without contact to liquid nitrogen. The usable levels secure the storage in gas phase.



Liquid phase storage

Your samples are stored up to 100% in the liquid phase at temperatures down to -196°C.

Functional Favorite – BIOSAFE® smart for VENUS



BIOSAFE® smart is an on-site vessel monitoring system with the following abilities:

- Level control and monitoring, automatic filling and temperature display
- Monitoring and evaluation of alarms and events
- Data analysis and transfer according to GMP FDA CRF 21 Part 11
- Double access control via RFID transponder and PIN code
- Temperature monitoring with up to 3 temperature sensors
- Visual and audible alarm on the display
- Forwarding of alarms and temperature
- Other optional equipment: battery backup, warm gas by-pass, software with alarms and messenger

! Our BIOSAFE® VENUS vessels are available in capacities from 150 to nearly 180 litres.

NEW
early
2022



All from one source



BIOSAFE® VENUS

With the BIOSAFE® smart for the Venus series, an automatic refill system can be connected conveniently, easily and safely.

For the nitrogen supply, the APOLLO® series is available.





Item Numbers

For your BIOSAFE® VENUS we supply various equipment options and extensive accessories.

BIOSAFE® VENUS Vessel Options

<input checked="" type="checkbox"/> Item no.		Quantity
<input type="checkbox"/> 78224110	BIOSAFE® VENUS 150 SC incl. smart, roller base, connecting hose 1.5 m for e.g. APOLLO® (biorepository unit without rack system)	
<input type="checkbox"/> 78224111	BIOSAFE® VENUS 180 SC incl. smart, roller base, connecting hose 1.5 m for e.g. APOLLO® (biorepository unit without rack system)	
<input type="checkbox"/> 78217554	SMART rack system 2ml (without cryoboxes) for BIOSAFE® VENUS 150, rack à 8 levels (single item number)	
<input type="checkbox"/> 78217555	SMART rack system 2ml (without cryoboxes) for BIOSAFE® VENUS 180, rack à 10 levels (single item number)	
<input type="checkbox"/> 78217556	SMART rack for goblets with drawers (without goblets), for BIOSAFE® VENUS 150, suitable for 4 goblets and 3 levels per rack (store up to 6 racks x 4 Daisy goblets x 3 levels per BIOSAFE® VENUS 150)	
<input type="checkbox"/> 78217557	SMART rack for goblets with drawers (without goblets), for BIOSAFE® VENUS 180, suitable for 4 goblets and 4 levels per rack (store up to 6 racks x 4 Daisy goblets x 4 levels per BIOSAFE® VENUS 150)	
<input type="checkbox"/> 78217558	SMART rack for bags in cassettes (without cassettes), for BIOSAFE® VENUS 150, suitable for 9 bags per rack (store up to 6 racks x 9 bags per BIOSAFE® VENUS 150)	
<input type="checkbox"/> 78217559	SMART rack for bags in cassettes (without cassettes), for BIOSAFE® VENUS 180, suitable for 9 bags per rack (store up to 6 racks x 9 bags x 2 levels per BIOSAFE® VENUS 150)	

Further container sizes and accessories upon request.

BIOSAFE® VENUS Extensive accessories

<input checked="" type="checkbox"/> Item no.		Quantity
<input type="checkbox"/> 78217560	Roller base for BIOSAFE® VENUS 150/180 (re-order reference)	
<input type="checkbox"/> 78212859	Cryobox (10x10, for 100 ampoules) with Cryotherm label, (single item number)	
<input type="checkbox"/> 78214364	Cryobox (9x9, for 81 ampoules) with Cryotherm label, (single article number)	
<input type="checkbox"/> 78212792	Transparent goblet, without lid, Ø 65 m (single article number)	
<input type="checkbox"/> 78216992	Set of 20 transparent goblets, without lid, Ø 65 m (set item number)	
<input type="checkbox"/> 78216990	Set of 5 transparent goblets with 11 coloured inserts, lid, Ø 65 mm (set item number)	
<input type="checkbox"/> 77031488	Cassette for bags (single article number)	
<input type="checkbox"/> 78217561	Insulation plug, interior (reorder reference)	
<input type="checkbox"/> 78217562	Hinged cover (reorder reference)	

sales@cryotherm.de

+49 (0)2741 - 95 85 0

Cryotherm GmbH & Co. KG

Euteneuen 4
 57548 Kirchen/Sieg, Germany
 Telephone: ++49 27 41 / 95 85-0
 Fax: ++49 27 41 / 69 00
 E-mail: info@cryotherm.de
 Version 2111



Your local contact:

