



Cryogenic containers for storing of your
biological samples

CATALOGUE

SEE MORE





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Founded in 1968, Cryopal designs and manufactures cryopreservation containers, vacuum lines and oxygen therapy devices.

100+
qualified professionals

55+
years of experience

90+
countries

Annual production
> 20 000
containers
of 0,3 to 2000 liters

Our missions



Supporting
scientific
research



Improving
access to healthcare
for everyone



Helping
to reduce our carbon
footprint through
eco-friendly manu-
facturing practices

In fields such as oxygen therapy, dermatology, health and research, cryobanking, pharmaceutical industry, animal health...



Line

2
9
11
21
26
35
40

GT

About GT

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Cryogenic containers for storing of your biological samples

GT

2
9
11
21
26
35
40



Key benefits

- > **Narrow neck for greater autonomy or wide neck for greater storage capacity**
- > **Lightweight and resistant thanks to their aluminium design**
- > **Capacity up to 16400 straws or 1200 cryo-tubes**
- > **Stainless steel or polycarbonate canisters**



Discover the GT range: Ideal for cryopreservation thanks to its 7 different models from 2 to 40 litres, 7 opportunities to find the container that meets your exact requirements. Made from aluminium, these containers are both light and strong. Their performance is enhanced by a 6-year vacuum guarantee, ensuring optimal, long-lasting preservation.

GT range can be locked using seals or padlocks (not supplied), except for the GT2



Sereny-T°
LOGGER
traceability solution for simple, high-performance temperature recording



Les GT 9, 11, 21 et 35 are available in plastic or stainless-steel canisters with 1 or 2 levels



Plastic canisters are supplied as standard with anti-flotation systems.

Click here  to see all the **accessories**

The containers in the GT range are Class IIa medical devices - GMDN Code 16534.



Your needs

Choose the size of your container according to your storage requirements.



	GT2	GT9	GT11	GT21	GT26	GT35	GT40
Number of polycarbonate canisters	3	6	6	6	-	6	-
Number of stainless steel canisters	-	6	6	6	9	6	10
Canister diameter mm	26	38	38	38	67	38	73
Number of canister levels	1	1	1 or 2	1 or 2	1	1 or 2	2
Height of canisters mm	120	120	120 or 280	120 or 280	110	120 or 280	280

STRAWS

Standard goblets (in canisters)

0,25ml	330	1200	1200/2400	1200/2400	7380	1200/2400	16400
0,5ml	150	564	564/1128	564/1128	3285	564/1128	7300
CBS 0,3-0,5ml	100	450	450/900	450/900	2025	450/900	4500

"Daisy goblets" (in canisters)⁽¹⁾

0,25ml	-	-	-	-	4860	-	9720
0,5ml	-	-	-	-	2160	-	4320
CBS 0,3-0,5ml	-	-	-	-	1512	-	3024

VIALS

On metallic vial-holder in 2-level canister

1,2 - 2ml	-	-	180	180	-	180	1200
5ml	-	-	90	90	-	90	600

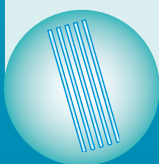
⁽¹⁾ "Daisy" goblets with a lid are available in 6 colors (white, red, green, blue, purple, and yellow).



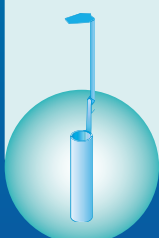
Inventory systems GT

2

Straws
0,25
5ml
CBS

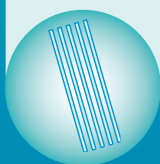


**1 level
Polycarbonate
canister**

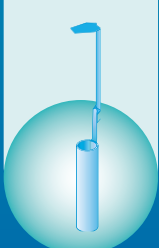


9 · 11 · 21 · 35

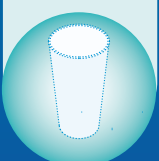
Straws
0,25
5ml
CBS



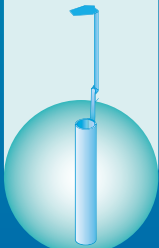
**1 level
Polycarbonate
or Stainless
steel canister**



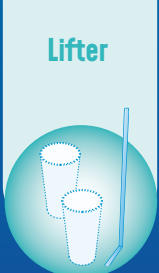
Gobelts
Ø 35 mm



**2 levels
Polycarbonate
or Stainless
steel canister**

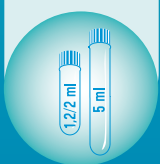


Gobelts
Ø 35 mm

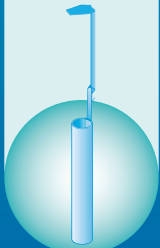


Lifter

Cryo-vials
1,2
2
5ml

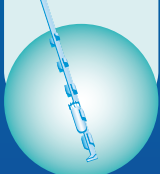


**2 levels
Polycarbonate
or Stainless
steel canister**



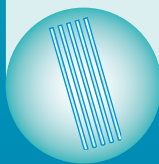
Metalic holder

1,2-2 ml :
x6 tube
5 ml :
x3 vials

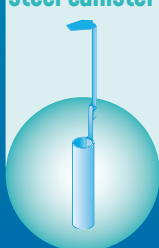


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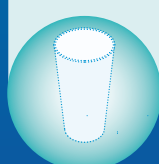
Straws
0,25
5ml
CBS



**1 level
Stainless
steel canister**

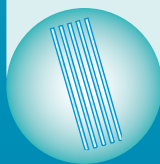


Gobelts
Ø 65 mm

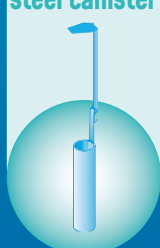


40

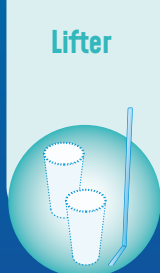
Straws
5ml
CBS



**2 levels
Stainless
steel canister**

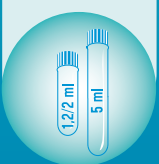


Gobelts
Ø 65 mm



Lifter

Cryo-vials
1,2
2
5ml



Metalic holder

1,2-2 ml :
x6 tube
5 ml :
x3 vials



Our solutions



Technical characteristics

	GT2	GT9	GT11	GT21	GT26	GT35	GT40
Useful capacity - L	2,14	9,51	12,4	21,6	27,2	33,8	43,4
Neck diameter - mm	30	50	50	50	80	50	120
Outside diameter - mm	174	358	308	388	468	468	468
Empty weight - kg	1,9	8,2	9	13	14,8	15	24
Full weight - kg	3,5	15,7	19	30,4	36	43	57
Total height - mm	392	450	630	660	460	660	710
Daily evaporation - L/d ⁽¹⁾	0,08	0,12	0,09	0,1	0,3	0,12	0,3
Static autonomy - d	26	79	137	216	90	281	144

Applications



IVF



Laboratory



Animal
insemination



Animal
health

(1) Average liquid nitrogen evaporation rates are calculated in accordance with ISO 21014. These measurements are taken without accessories (canisters, electronic monitoring, temperature sensor, etc.), at constant atmospheric pressure and at a constant temperature of 15°C. These evaporation rates are indicative and may vary according to the conditions of use.



Accessories



	GT2	GT9	GT11	GT21	GT26	GT35	GT40
GT plastic canisters 1 level	GT2-1	GT9-1	GT11-1	GT21-1	-	GT35-1	-
GT plastic canisters 2 levels	-	-	GT11-4	GT21-4	-	GT35-4	-
GT stainless steel canisters 1 level	-	GT9-2	GT11-2	GT21-2	GT26-1	GT35-2	-
GT stainless steel canisters 2 levels	-	-	GT11-3	GT21-3	-	GT35-3	GT40-1
SERENY-T module + single probe	SERENY-T-LOGGER-1						
SERENY-T module + single probe + low level probe + GT support	SERENY-T-LOGGER-2						SERENY-T-LOGGER-2 + ACC-LOGGER-10
SERENY-T module + double probe	SERENY-T-LOGGER-3						
SERENY-T Module + double probe + low level probe + GT support	SERENY-T-LOGGER-4						SERENY-T-LOGGER-4 + ACC-LOGGER-10
Standard roller base GT21/26/35/40/ NATAL40	-	-	-	ACC-ALU-29			
Clamping kit for roller base	-	-	-	ACC-ALU-32			
Level indicator for GT	ACC-GT-103						
GT40 probe support kit	-	-	-	-	-	-	ACC-GT-40
Metal tube holders for 6 x 2ml tubes or 3 x 5ml tubes	-	-	ACC-BOXTUBE-411		-	ACC-BOXTUBE-411	
Cryotubes 1ml with white skirt-cap	-	-	ACC-BOXTUBE-6		-	ACC-BOXTUBE-6	
Cryotubes 2ml round bottom white cap	-	-	ACC-BOXTUBE-11		-	ACC-BOXTUBE-11	
Cryotubes 5ml round bottom white cap	-	-	ACC-BOXTUBE-16		-	ACC-BOXTUBE-16	
Cardboard sleeves for cryotube holders	-	-	ACC-BOXTUBE-408		-	ACC-BOXTUBE-408	
White Marguerite goblet Diam 65 + lid	-	-	-	-	ACC-BOXTUBE-302	-	ACC-BOXTUBE-302
Red Marguerite goblet Diam 65 + lid	-	-	-	-	ACC-BOXTUBE-500	-	ACC-BOXTUBE-500
Green Marguerite goblet Diam 65+ lid	-	-	-	-	ACC-BOXTUBE-501	-	ACC-BOXTUBE-501
Blue Marguerite goblet Diam 65 + lid	-	-	-	-	ACC-BOXTUBE-502	-	ACC-BOXTUBE-502
Marguerite parma goblet Diam 65 + lid	-	-	-	-	ACC-BOXTUBE-503	-	ACC-BOXTUBE-503
Yellow Marguerite goblet Diam 65 + lid	-	-	-	-	ACC-BOXTUBE-504	-	ACC-BOXTUBE-504
Goblet Diam 35 mm	-	ACC-BOXTUBE-300			-	ACC-BOXTUBE-300	
Goblet Diam 65 mm	-	-	-	-	ACC-BOXTUBE-301	-	ACC-BOXTUBE-301
Diam 65 mm pierced goblet + lid	-	-	-	-	ACC-BOXTUBE-415	-	ACC-BOXTUBE-415
Lifter for 2 levels canisters	-	-	ACC-BOXTUBE-405		-	ACC-BOXTUBE-405	
Visotube Diam 10	ACC-BOXTUBE-3						
Visotube Diam 12	ACC-BOXTUBE-4						
Polygonal Visotube	ACC-BOXTUBE-1						



Line
40
70
110
140
170
55
75

ARPEGE

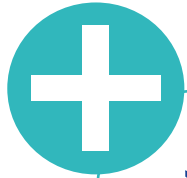
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Medium-sized cryopreservation containers for storing biological samples in straws, cryotubes and bags.

ARPEGE

40
70
110
140
170
55
75



Key benefits

- > Lightweight and robust thanks to their aluminium design
- > A capacity of up to 68,880 straws or 6,000 cryo-vials
- > Available for gas-phase or liquid-phase storage
- > Storage solutions with racks or canisters
- > A variety of possible inventory systems
- > 6 years vacuum warranty



ARPEGE model with narrow neck for a longer holding time



ARPEGE model with wide neck for easier access to samples



Innovative and intelligent monitoring and control solution from the ARPEGE range. See details in the 'Monitoring System' brochure.



Gas phase

The samples are stored in nitrogen vapour: samples are not in direct contact with liquid nitrogen.



Liquid phase

The samples are stored immersed in liquid nitrogen depending on the level.



Individual box locking system

Allows the user to remove only the box of their choice, for greater handling safety.

ARPEGE cryobanking containers are class-IIa medical devices – GMDN code 16534. Racks, canisters and SERENY-T BOX electronic devices are class-I medical devices.



Yours needs

Choose the size of your container according to your storage requirements.



ARPEGE NARROW NECK

ARPEGE WIDE NECK

Liquid or Gas phase

VIALS

		40	70	110	140	170	55	75
Boxes (in racks)	2 ml ⁽³⁾	750 ⁽⁴⁾	2 000 / 1 600 ⁽¹⁾	3 600 / 2 200 ⁽¹⁾	4 800 / 4 200	6 000 / 5 400	3 618 / 3 015 ⁽¹⁾	4 824 / 4 020 ⁽¹⁾
	5 ml ⁽³⁾	-	972 / 648	1 620 / 1 296	1 944 / 1 458	2 430 / 1 944	-	-
Metallic vial holders (in canisters)	2 ml	-	- -	- -	- -	- -	2 142 / 2 040 ⁽¹⁾	4 284 / 4 080 ⁽¹⁾
	5 ml	-	- -	- -	- -	- -	1 071 / 1 020 ⁽¹⁾	2 142 / 2 040 ⁽¹⁾

STRAWS

Standard goblets (in canisters)	0,25 ml	-	- -	- -	- -	- -	51 660 / 49 200 ⁽¹⁾	68 880 / 65 600 ⁽¹⁾
	0,5 ml	-	- -	- -	- -	- -	22 995 / 21 900 ⁽¹⁾	30 660 / 29 200 ⁽¹⁾
	CBS 0,3-0,5 ml	-	- -	- -	- -	- -	14 175 / 13 500 ⁽¹⁾	18 900 / 18 000 ⁽¹⁾
Daisy goblets (in canisters)	0,25 ml	-	- -	- -	- -	- -	34 020 / 32 400 ⁽¹⁾	45 360 / 43 200 ⁽¹⁾
	0,5 ml	-	- -	- -	- -	- -	15 120 / 14 400 ⁽¹⁾	20 160 / 19 200 ⁽¹⁾
	CBS 0,3-0,5 ml	-	- -	- -	- -	- -	10 584 / 10 080 ⁽¹⁾	14 112 / 13 440 ⁽¹⁾
Standard goblets (in racks)	0,25 ml	-	- -	- -	- -	- -	41 820 / 39 360 ⁽¹⁾	55 760 / 52 480 ⁽¹⁾
	0,5 ml	-	- -	- -	- -	- -	18 615 / 17 520 ⁽¹⁾	24 820 / 23 360 ⁽¹⁾
	CBS 0,3-0,5 ml	-	- -	- -	- -	- -	11 475 / 10 800 ⁽¹⁾	15 300 / 14 400 ⁽¹⁾
Daisy goblets (in racks)	0,25 ml	-	- -	- -	- -	- -	27 540 / 25 920 ⁽¹⁾	36 720 / 34 560 ⁽¹⁾
	0,5 ml	-	- -	- -	- -	- -	12 240 / 11 520 ⁽¹⁾	16 320 / 15 360 ⁽¹⁾
	CBS 0,3-0,5 ml	-	- -	- -	- -	- -	8 568 / 8 064 ⁽¹⁾	11 424 / 10 752 ⁽¹⁾
Visotubes Ø12 mm (in racks ²)	0,25 ml	-	14 960 / 7 480	22 440 / 14 960	33 660 / 22 440	44 880 / 33 660	-	-
	0,5 ml	-	5 440 / 2 720	8 160 / 5 440	12 240 / 8 160	16 320 / 12 240	-	-
	CBS 0,3-0,5 ml	-	4 760 / 2 380	7 140 / 4 760	10 710 / 7 140	14 280 / 10 710	-	-

BAGS

700ml	700 ml	-	- -	- -	- -	- -	24	48
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[1] Capacity if equipped with SERENY-T BOX. [2] 85 visotubes per level. [3] Capacity in boxes of 100 vials. [4] Capacity in boxes of 25 vials. [5] Capacity in boxes of 81 vials.

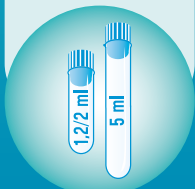


Inventory systems

ARPEGE

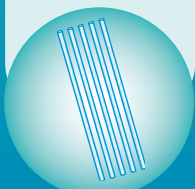
40 · 70 · 110 · 140 · 170

Cryo-vials



Straws

0,25 / 5ml CBS

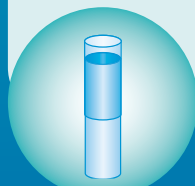


Boxes

Vial 1,2 / 2ml :
Boxes 25, 81 or
100 vials
Vial 5ml:
Box 81 vials



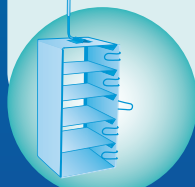
Visotube



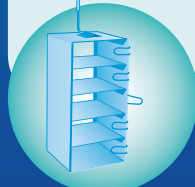
Drawers



Rack Clips

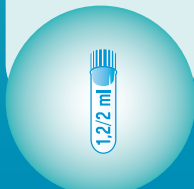


Rack Clips

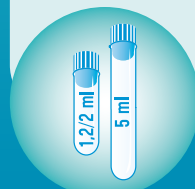


55 · 75

Cryo-vials

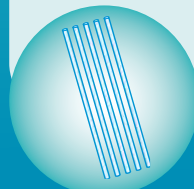


Cryo-vials

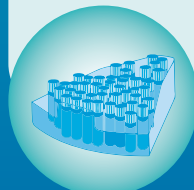


Straws

0,25 / 5ml CBS

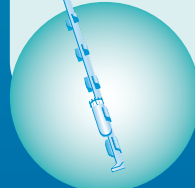


Drawers camembert type



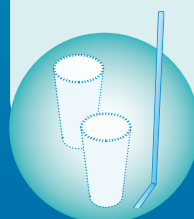
Metalic holder

Vial 1,2 / 2ml :
x 6 vial
vial 5ml:
x3 vial

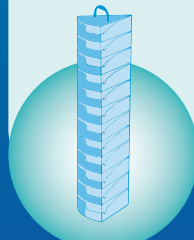


Goblets

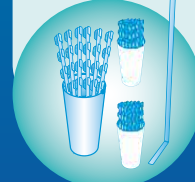
Standard
or daisy goblets
D65mm



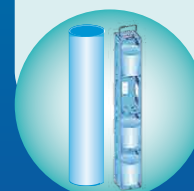
Rack Camemberts



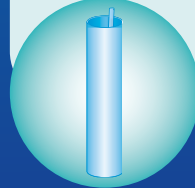
Goblets D65mm



Canister or Rack Goblets



Canister and Lifter



Our solutions

Liquid  or Gas  phase

Technical characteristics

	ARPEGE NARROW NECK					ARPEGE WIDE NECK	
	40	70	110	140	170	55	75
		 	 	 	 		
Useful capacity  – L	43,4	73,5	117	146	174	54,3	72,4
Useful capacity  – L	-	14,2	14,3	21,9	20,5	-	-
Weight empty without equipment – kg	25	33	40	40	56	31	37
Weight full without equipment  kg	57	91	134	156	195	75	95
Weight full without equipment  kg	-	59	69	84	90	-	-
Height without SERENY-T BOX – mm	735	738	962	911	1028	850	1015
Height with SERENY-T BOX – mm	970	921	1145	1094	1211	1035	1200
Depth – mm	551	673	672,5	769,5	769,5	546	546
Diameter – mm	467	586	586	683	683	468	468
Neck diameter – mm	120	215	215	215	215	378	378
Static holding time ⁽¹⁾  – j	144	105	156	194	217	23	30
Static holding time ⁽¹⁾  – j	-	20	19	29	25	-	-
Theoretical daily evaporation ⁽¹⁾ – L/j	0,3	0,7	0,75	0,75	0,8	2,29	2,38
Display of level ⁽²⁾ – %	✓	✓	✓	✓	✓	✓	✓
Temperature display ⁽²⁾ – °C/°F	✓	✓	✓	✓	✓	✓	✓
Connector LN ₂ (for automatic filling, except ARPEGE 40)	Filetage : 3/4 -16 UNF 2A-RH,75						

Inventory systems

Number of racks	6	4	4	6	6	6 ⁽³⁾	6 ⁽³⁾
Number of canisters	-	-	-	-	-	21 ⁽⁴⁾	21 ⁽⁴⁾
Number of levels 2 ml vials 	5	5	9	8	10	9 / 1 ⁽⁵⁾	12 / 2 ⁽⁵⁾
Number of levels 2 ml vials 	-	4	8	7	9	-	-
Number of levels 5 ml vials 	-	3	5	4	5	1 ⁽⁶⁾	2 ⁽⁶⁾
Number of levels 5 ml vials 	-	2	4	3	7	-	-
Number of levels straws 	-	2	3	3	4	3 ⁽⁷⁾	4 ⁽⁷⁾

Options available

SIMPLE

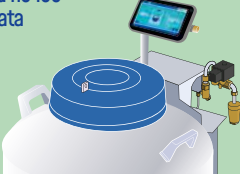
Container without electronic



INITIAL

SIMPLE+
SERENY-T BOX electronics

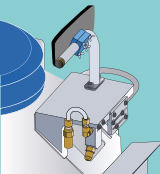
- > Level display
- > Temperature display
- > 4-20 mA and RS485 output for data transfer



ESSENTIAL

INITIAL +
automatic filling -
degassing kit option

- > Automatic level regulation with filling safety
- > Degassing kit



(1) Holding tests are performed under the conditions of the ISO 21014 standard extrapolated to the volumes evaluated according to the theoretical models. Daily evaporation and holding times are at 20°C, 1,013 mb, with a stationary container and a closed lid. These values are nominal and may vary based on the history of the container and manufacturing tolerances. (2) SERENY-T BOX option available on the entire ARPEGE range. (3) 5 or 16 racks if fitted with SERENY-T BOX. (4) 20 canisters if fitted with SERENY-T BOX. (5) 2 ml cryo-vials clipped on vial-holder rod. (6) 5 ml cryo-vials clipped on vial-holder rod. (7) Canisters or racks for goblet.





Cryogenic containers

ARPEGE 40

References

	SIMPLE	INITIAL
	Container without electronic	SIMPLE+ SERENY-T BOX electronic Level and temperature Indicator
	ARPEGE40N-L-1	ARPEGE40SB-L-2
	-	-

Inventory systems



STORAGE TYPE	DESIGNATION	REFERENCE
Cryo-vials 2 ml	1 rack 5 levels for 1.2/2 ml vials (max. 6 racks per container)	ACC-RACK-16
	Set of 6 racks	ACC-RACK-100

Features that make the difference

- + Liquid version.
- + Storage of 2ml vials in boxes of 25.
- + Narrow neck for unrivalled performance.
- + Lockable cap.
- + Available with or without SERENY-T BOX
- + SERENY-T BOX alerts you with audible and visual alarms when a refill is required.

Click here  to see all the **accessories**

Applications



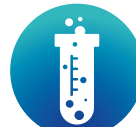
R&D



Biobanking



IVF



Cell therapy



Animal health



Laboratory





Cryogenic containers

ARPEGE 70

References

	SIMPLE	INITIAL	ESSENTIAL
	Container without electronic	SIMPLE+ SERENY-T BOX electronic Level and temperature indicator	INITIAL + automatic filling option Automatic level control with overflow protection and degassing kit
	ARPEGE70N-L-1	ARPEGE70SB-L-2	ARPEGE70SB-L-3
	-	-	ARPEGE70SB-G-3

	STORAGE TYPE	DESIGNATION	REFERENCE
Inventory systems	Straws	1 rack 2 levels for straws without visotube (max. 4 racks per container)	ACC-RACK-23
		Set of 4 racks	ACC-RACK-111
	Cryo-vials 2 ml	1 rack 5 levels for 1,2/2 ml vials (max. 4 racks per container)	ACC-RACK-17
		Set of 4 racks	ACC-RACK-101
	Cryo-vials 5 ml	1 rack 3 levels for 5 ml vials (max. 4 racks per container)	ACC-RACK-12
		Set of 4 racks	ACC-RACK-105
	Bags 25 ml	1 rack 3 levels (capacity 33 bags, max. 4 racks per container)	ACC-RACK-208
		Set of 4 racks	ACC-RACK-207
	Straws	1 rack 2 levels for straws without visotube (max. 4 racks per container)	ACC-RACK-23
		Set of 4 racks	ACC-RACK-111
	Cryo-vials 2 ml	1 rack 4 étages pour tubes 1,2/2 ml (max. 4 racks par récipient)	ACC-RACK-310
		Set of 4 racks	ACC-RACK-300
	Cryo-vials 5 ml	1 rack 2 levels for 5 ml vials (max. 4 racks per container)	ACC-RACK-308
		Set of 4 racks	ACC-RACK-304
	Bags 25 ml	1 rack 2 levels (capacity 22 bags, max. 4 racks per container)	ACC-RACK-210
		Set of 4 racks	ACC-RACK-209

Features that make the difference

- + Liquid or gas version
- + Storage of 2ml vials in boxes of 81 or 100, 5ml vials in boxes of 81 and straws in visotubes.
- + Narrow neck for unrivalled performance.
- + Lockable cap
- + 4 easily identifiable racks guarantee traceability of your samples.
- + Available with or without SERENY-T BOX, with or without automatic filling

Applications



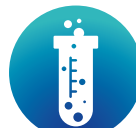
R&D



Biobanking



IVF



Cell therapy



Animal health



Laboratory

Click here to see all the accessories



ARPEGE 110

References



SIMPLE

Container
without electronic

INITIAL

SIMPLE+
SERENY-T BOX electronic
Level and temperature indicator

ESSENTIAL

INITIAL +
automatic filling option
Automatic level control with overflow
protection and degassing kit

ARPEGE110N-L-1

ARPEGE110SB-L-2

ARPEGE110SB-L-3

-

-

ARPEGE110SB-G-3

STORAGE TYPE

DESIGNATION

REFERENCE

Straws

1 rack 3 levels for straws without visotube (max. 4 racks per container)

ACC-RACK-14

Set of 4 racks

ACC-RACK-112

Cryo-vials 2 ml

1 rack 9 levels for 1,2/2 ml vials (max. 4 racks per container)

ACC-RACK-18

Set of 4 racks

ACC-RACK-102

Cryo-vials 5 ml

1 rack 5 levels for 5 ml vials (max. 4 racks per container)

ACC-RACK-13

Set of 4 racks

ACC-RACK-106

Bags 25 ml

1 rack 5 levels (capacity 55 bags, max. 4 racks per container)

ACC-RACK-212

Set of 4 racks

ACC-RACK-211

Straws

1 rack 3 levels for straws without visotube (max. 4 racks per container)

ACC-RACK-14

Set of 4 racks

ACC-RACK-112

Cryo-vials 2 ml

1 rack 8 levels for 1,2/2 ml vials (max. 4 racks per container)

ACC-RACK-311

Set of 4 racks

ACC-RACK-301

Cryo-vials 5 ml

1 rack 4 levels for 5 ml vials (max. 4 racks per container)

ACC-RACK-309

Set of 4 racks

ACC-RACK-305

Bags 25 ml

1 rack 4 levels (capacity 44 bags, max. 4 racks per container)

ACC-RACK-214

Set of 4 racks

ACC-RACK-213

Inventory systems

Features that make the difference

- + Liquid or gas version
- + Storage of 2ml vials in boxes of 81 or 100, 5ml vials in boxes of 81 and straws in visotubes.
- + Narrow neck for unrivalled performance.
- + Lockable cap
- + 4 easily identifiable racks guarantee traceability of your samples.
- + Available with or without SERENY-T BOX, with or without automatic filling

Applications



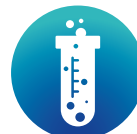
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Biobanking



IVF

Cell
therapyAnimal
health

Laboratory

Click here  to see all the accessories



Cryogenic containers

ARPEGE 140

References

	SIMPLE	INITIAL	ESSENTIAL
	Container without electronic	SIMPLE+ SERENY-T BOX electronic Level and temperature indicator	INITIAL + automatic filling option Automatic level control with overflow protection and degassing kit
	ARPEGE140N-L-1	ARPEGE140SB-L-2	ARPEGE140SB-L-3
	-	-	ARPEGE140SB-G-3

	STORAGE TYPE	DESIGNATION	REFERENCE
Inventory systems	Straws	1 rack 3 levels for straws without visotube (max. 6 racks per container)	ACC-RACK-24
		Set of 6 racks	ACC-RACK-113
	Cryo-vials 2 ml	1 rack 8 levels for 1,2/2 ml vials (max. 6 racks per container)	ACC-RACK-19
		Set of 6 racks	ACC-RACK-103
	Cryo-vials 5 ml	1 rack 4 levels for 5 ml vials (max. 6 racks per container)	ACC-RACK-20
		Set of 6 racks	ACC-RACK-107
	Bags 25 ml	1 rack 5 levels (capacity 55 bags, max. 6 racks per container)	ACC-RACK-216
		Set of 6 racks	ACC-RACK-215
	Straws	1 rack 3 levels for straws without visotube (max. 6 racks per container)	ACC-RACK-24
		Set of 6 racks	ACC-RACK-113
	Cryo-vials 2 ml	1 rack 7 levels for 1,2/2 ml vials (max. 6 racks per container)	ACC-RACK-312
		Set of 6 racks	ACC-RACK-302
	Cryo-vials 5 ml	1 rack 3 levels for 5 ml vials (max. 6 racks per container)	ACC-RACK-313
		Set of 6 racks	ACC-RACK-306
	Bags 25 ml	1 rack 4 levels (capacity 44 bags, max. 6 racks per container)	ACC-RACK-218
		Set of 6 racks	ACC-RACK-217

Features that make the difference

- + Liquid or gas version
- + Storage of 2ml vials in boxes of 81 or 100, 5ml vials in boxes of 81 and straws in visotubes.
- + Narrow neck for unrivalled performance.
- + Lockable cap
- + 4 easily identifiable racks guarantee traceability of your samples.
- + Available with or without SERENY-T BOX, with or without automatic filling

Applications



R&D



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Laboratory

Click here to see all the **accessories**





Cryogenic containers

ARPEGE 170

References

SIMPLE	INITIAL	ESSENTIAL
Container without electronic	SIMPLE+ SERENY-T BOX electronic Level and temperature indicator	INITIAL + automatic filling option Automatic level control with overflow protection and degassing kit
ARPEGE170N-L-1	ARPEGE170SB-L-2	ARPEGE170SB-L-3
-	-	ARPEGE170SB-G-3

	STORAGE TYPE	DESIGNATION	REFERENCE
Inventory systems	Straws	1 rack 4 levels for straws without visotube (max. 6 racks per container)	ACC-RACK-25
		Set of 6 racks	ACC-RACK-114
	Cryo-vials 2 ml	1 rack 10 levels for 1.2/2 ml vials (max. 6 racks per container)	ACC-RACK-21
		Set of 6 racks	ACC-RACK-104
	Cryo-vials 5 ml	1 rack 5 levels for 5 ml vials (max. 6 racks per container)	ACC-RACK-22
		Set of 6 racks	ACC-RACK-108
	Bags 25 ml	1 rack 6 levels (capacity 66 bags, max. 6 racks per container)	ACC-RACK-220
		Set of 6 racks	ACC-RACK-219
	Straws	1 rack 4 levels for straws without visotube (max. 6 racks per container)	ACC-RACK-25
		Set of 6 racks	ACC-RACK-114
	Cryo-vials 2 ml	1 rack 9 levels for 1.2/2 ml vials (max. 6 racks per container)	ACC-RACK-314
		Set of 6 racks	ACC-RACK-303
	Cryo-vials 5 ml	1 rack 4 levels for 5 ml vials (max. 6 racks per container)	ACC-RACK-315
		Set of 6 racks	ACC-RACK-307
	Bags 25 ml	1 rack 5 levels (capacity 55 bags, max. 6 racks per container)	ACC-RACK-222
		Set of 6 racks	ACC-RACK-221

Features that make the difference

- + Liquid or gas version
- + Storage of 2ml vials in boxes of 81 or 100, 5ml vials in boxes of 81 and straws in visotubes.
- + Narrow neck for unrivalled performance.
- + Lockable cap
- + 6 easily identifiable racks guarantee traceability of your samples.
- + Available with or without SERENY-T BOX, with or without automatic filling

Applications



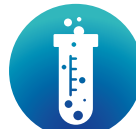
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Animal health



Laboratory

Click here [▶](#) to see all the **accessories**





Cryogenic containers

ARPEGE 55

References

SIMPLE	INITIAL	ESSENTIAL
Container without electronic	SIMPLE+ SERENY-T BOX electronic Level and temperature indicator	INITIAL + automatic filling option Automatic level control with overflow protection and degassing kit
ARPEGE55N-L-1	ARPEGE55SB-L-2	ARPEGE55SB-L-3
-	-	-

STORAGE TYPE	DESIGNATION	REFERENCE
Straws	Set of 21 canisters ⁽¹⁾ + 63 goblets for straws	ACC-PLASCAN-109
	Rack 3 level for goblet (17 racks for ARP55)	ACC-RACK-61
Cryo-vials 2 ml	Set of 6 racks 9 levels for 2 ml vials	ACC-RACK-109
	Set of 21 canisters ⁽¹⁾ + 21 goblets for 1.2/2 & 5 ml vials	ACC-PLASCAN-108
Cryo-vials 5 ml	Set of 21 canisters ⁽¹⁾ + 21 goblets for 1.2/2 & 5 ml vials	ACC-PLASCAN-108
Bags 70 ml	1 rack 1 level for DF700 bag (capacity 6 bags, max. 4 racks per container)	ACC-RACK-11

Inventory systems

Features that make the difference

- + Liquid version
- + Storage of 2ml vials in drawer racks, and straws in canisters and goblets.
- + Wide neck for total visibility of your samples.
- + Ideal for storing large quantities of straws in standard or daisy goblets.
- + Available with or without SERENY-T BOX with or without automatic filling.

Applications



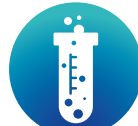
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Cryogenic containers

ARPEGE 75

References

	SIMPLE	INITIAL	ESSENTIAL
	Container without electronic	SIMPLE+ SERENY-T BOX electronic Level and temperature indicator	INITIAL + automatic filling option Automatic level control with overflow protection and degassing kit
	ARPEGE75N-L-1	ARPEGE75SB-L-2	ARPEGE75SB-L-3
	-	-	-

Inventory systems

STORAGE TYPE	DESIGNATION	REFERENCE
Straws	Set of 21 canisters ⁽¹⁾ + 84 goblets for straws	ACC-PLASCAN-107
	Rack 4 levels for goblet (17 racks for ARP75)	ACC-RACK-62
Cryo-vials 2 ml	Set of 6 racks 12 levels for 2 ml vials	ACC-RACK-110
	Set of 21 canisters ⁽¹⁾ + 42 goblets for 1.2/2 & 5 ml vials	ACC-PLASCAN-110
Cryo-vials 5 ml	Set of 21 canisters ⁽¹⁾ + 42 goblets for 1.2/2 & 5 ml vials	ACC-PLASCAN-110
Bags 700 ml	1 rack 2 levels for DF700 bag (capacity 12 bags, max. 4 racks per container)	ACC-RACK-32

Features that make the difference

- + Liquid version
- + Storage of 2ml vials in drawer racks, and straws in canisters and goblets.
- + Wide neck for total visibility of your samples.
- + Ideal for storing large quantities of straws in standard or daisy goblets.
- + Available with or without SERENY-T BOX with or without automatic filling.

Applications



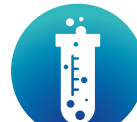
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Laboratory

Click here  to see all the **accessories**

⁽¹⁾ 20 canisters if container equipped with SERENY-T BOX



Accessories



TYPE OF STORAGE	DESIGNATION	REFERENCE	CONTAINERS
1.2 / 2 ml cryo-vials	Cryoplastic Boxes 76x76x51 [Capacity 25 x 2 ml vials] [Order in multiples of 8]	ACC-BOXTUBE-105	ARP 40
	2 levels polycarbonate canister	ACC-PLASCAN-1	ARP 55
	Vertical metallic vial holder for 6 vials 2ml or 3 vials 5ml [Order in multiples of 10]	ACC-BOXTUBE-411	ARP 55-75
	Goblet Diam 65 mm [Order in multiples of 20]	ACC-BOXTUBE-301	ARP 55-75
	Cryoplastic Box 133x133x51 [Capacity 100 x 2 ml vials] [Order in multiples of 5]	ACC-BOXTUBE-104	ARP 70-110-140-170
	4 level polycarbonate canister	ACC-PLASCAN-4	ARP 75
	2ml round bottom vials with white lid [Order in multiples of 50]	ACC-BOXTUBE-11	Tous les ARPEGE
5 ml cryo-vials	2 levels polycarbonate canister	ACC-PLASCAN-1	ARP 55
	5ml round bottom vials with white lid [Order in multiples of 50]	ACC-BOXTUBE-16	ARP 55-70-75-110-140-170
	Vertical metallic vial holder for 6 vials 2ml or 3 vials 5ml [Order in multiples of 10]	ACC-BOXTUBE-411	ARP 55-75
	Goblet Diam 65 mm [Order in multiples of 20]	ACC-BOXTUBE-301	ARP 55-75
	4 level polycarbonate canister	ACC-PLASCAN-4	ARP 55-75
	Cryoplastic Box 133x133x95 [Capacity 81 x 5 ml vials] [Order in multiples of 4]	ACC-BOXTUBE-107	ARP70-110-140-170
Straws	3 level polycarbonate canister	ACC-PLASCAN-2	ARP 55
	Goblet Diam 65 mm [Order in multiples of 20]	ACC-BOXTUBE-301	ARP 55-75
	White daisy goblet Diam 65 + lid [Order in multiples of 5]	ACC-BOXTUBE-302	ARP 55-75
	Goblet with holes Diam 65 mm + lid [Order in multiples of 10]	ACC-BOXTUBE-415	ARP 55-75
	Visotube with lid [Order in multiples of 50]	ACC-BOXTUBE-5	ARP 70-110-140-170
	4 level polycarbonate canister	ACC-PLASCAN-4	ARP 75
700 ml bags	Cardboard cassette [bag 750ml] [Order in multiples of 300]	ACC-BOXTUBE-253	ARP 55-75
Other accessories	Roller base [height: 220 mm]	ACC-ALU-29	ARP 55-75
	Roller base [height: 220 mm]	ACC-ALU-30	ARP 70-110-140-170
	Fixation kit for roller base	ACC-ALU-32	Tous les ARPEGE
	Flexible DN10 180/180 for nitrogen L = 1.5 m	ACC-FL180180NL-15	ARP 55-70-75-110-140-170



Line

151 331 661

ESPACE

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Large-capacity, wide-neck cryopreservation containers for storing biological samples in straws, cryo-tubes, bags or other

ESPACE

151
331
661

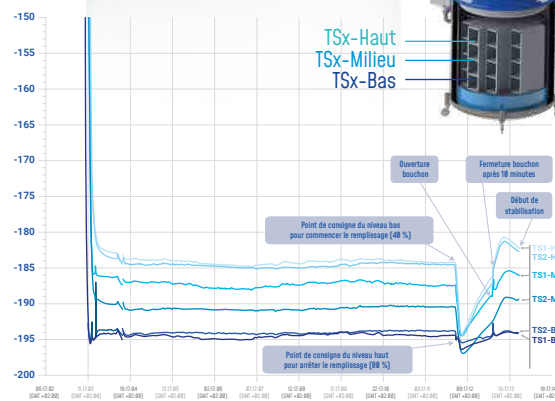


Key benefits

- > Optimum thermal performance
- > Wide neck for easy access and sample handling
- > Available for gas-phase or liquid-phase storage
- > Highly flexible layout for straws, cryo-tubes, bags and mixed solutions
- > Capacity for up to 668,300 straws, 38,400 tubes or 3,465 bags
- > Customised layouts for your specific samples on request
- > SERENY-T Box monitoring electronics as standard
- > 6 years vacuum warranty



The **ESPACE** range benefits from a technology that provides homogenisation of the temperature in the cryogenic chamber, with a reduced gradient between the neck and the bottom of the vessel.



Easy to use thanks to :

A system for clearing the gas ceiling after opening for better visibility and easier sample removal. A rotating tray giving access to all the racks and samples by a simple rotation (optional on the ESPACE 331 and standard on the ESPACE 661).



Innovative and intelligent monitoring and control solution from the ESPACE range. See details in the 'Monitoring System' brochure.

Gas phase

The samples are stored in nitrogen vapour: samples are not in direct contact with liquid nitrogen.

With casing



Without casing

Liquid phase

The samples are stored immersed in liquid nitrogen depending on the level.

With casing



Without casing

ESPACE cryobanking containers are class-IIa medical devices – GMDN code 16534.



Yours needs

Choose the size of your container according to your storage requirements.



Equal storage capacity
in liquid  or gas phase 

151 without PT ⁽¹⁾

331 without PT ⁽²⁾

331 with PT ⁽²⁾

661 with PT

STRAWS

**Standard goblets
Ø65 mm**
[in canisters]

**Daisy goblets
Ø65 mm**
[in canisters] ⁽³⁾

**Visotubes
Ø12 mm**
[in racks] ⁽²⁾

VIALS

**Boxes
of 100 and
25 vials**

**Boxes
of 81 vials**

BAGS

with / without holster

25 ml

50 ml

200/250 ml

500 ml

700/750 ml

	151 without PT ⁽¹⁾	331 without PT ⁽²⁾	331 with PT ⁽²⁾	661 with PT
0,25 ml	188 600	397 700	360 800	668 300
0,5 ml	83 950	177 025	160 600	297 475
CBS 0,3-0,5 ml	51 750	109 125	99 000	183 375

0,25 ml	124 200	261 900	237 600	440 100
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0,5 ml	55 200	116 400	105 600	195 600
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CBS 0,3-0,5 ml	38 640	81 480	73 920	136 920
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0,25 ml	52 360	127 160	112 200	231 880
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0,5 ml	190 400	46 240	40 800	84 320
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CBS 0,3-0,5 ml	16 660	40 460	35 700	73 780
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2 ml	10 400	22 200	19 800	38 400
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5 ml	3 969	8 262	7 290	15 066
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Thermogenesis	960 / -	1 995 / -	1 820 / -	3 465 / -
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Biosafe	768 / -	1 596 / -	1 456 / -	2 772 / -
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PALL	735 / -	1 512 / -	1 344 / -	3 038 / -
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Standard (sans étui)	- / 432	- / 984	- / 840	- / 1 704
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Baxter	294 / - 392	630 / 840	609 / 812	1 176 / 1 568
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DF200 / Baxter / Macopharma	144 / 192	324 / 432	300 / 400	600 / 800
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Baxter / Macopharma	140 / 168	300 / 360	300 / 360	560 / 672
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DF700	- / 120	- / 252	- / 240	- / 456
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DF700 H / Macopharma	96 / 128	216 / 288	192 / 256	384 / 512
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Baxter 750 ml	- / 112	- / 208	- / 192	- / 368
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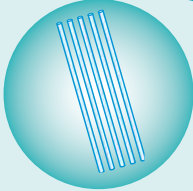
⁽¹⁾ PT = Rotating Tray: allows the inventory system to be brought closer to the user for easier removal.

⁽²⁾ Available with or without casing. ⁽³⁾ The «daisy» goblet with cap is available in 6 colours [white, red, green, blue, parma, yellow].

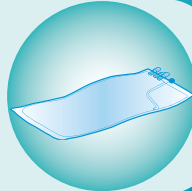


Inventory systems **ESPACE**

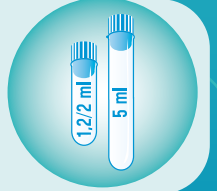
Straws
0,25 / 0,5ml CBS



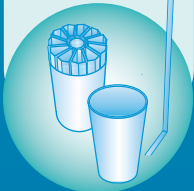
Bags
25 / 1000ml



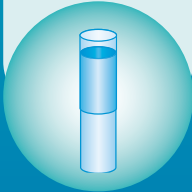
Cryo-tubes
1,2 / 2 et 5ml



Goblets
D65mm
Standard or
«Daisy»



Cryo-vials



**Holster
available**

- Aluminium
- Mi-Aluminium
- mi- plastique
- Carton



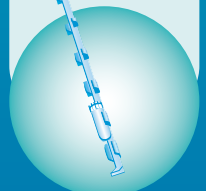
Boxes

Vial 1,2 / 2ml :
Boxes 25, 81
or 100 vials
Vial 5ml:
Box 81 vials

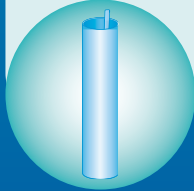


Metalic holder

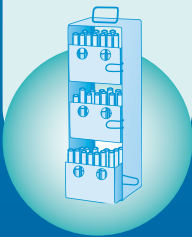
Vial 1,2 / 2ml :
Boxes 25, 81 or
100 vials



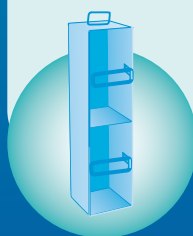
**Canister
and lifter**



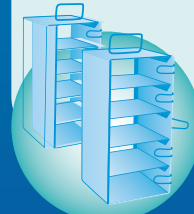
Rack



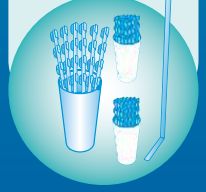
Rack



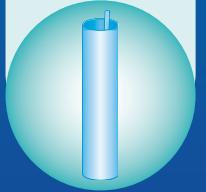
**Rack
Clips**



Goblets
Ø 65mm

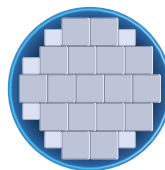


**Canister
and lifter**



Click here  to see all the **accessories**

Standard or mixed, don't hesitate to contact us to receive a drawing of your future layout. Example of ESPACE 331 layout without turntable for 2 ml tubes (top view): 17 racks for boxes of 81 or 100 tubes + 6 racks for boxes of 25 tubes.



Our solutions

Liquid  or Gas  phase

WITHOUT ROTATING TRAY

WITH ROTATING TRAY

151

331

331 PT

661 PT

With casing

With casing

Without casing

With casing

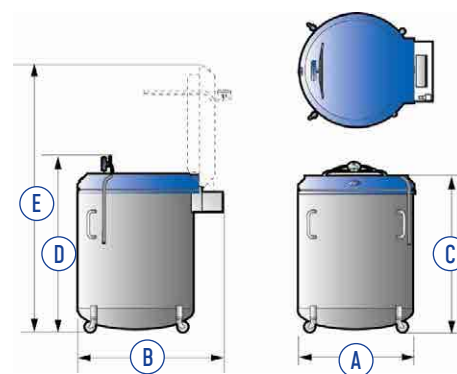
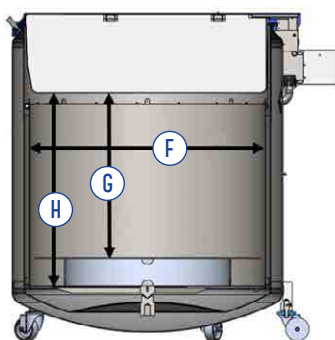
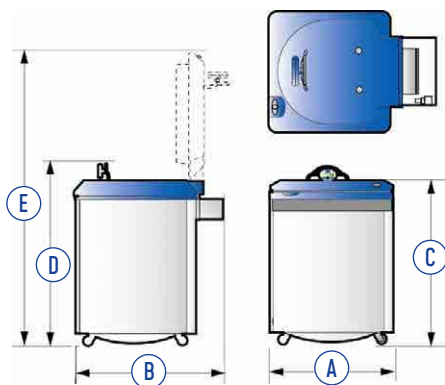
Without casing

Without casing



TECHNICAL CHARACTERISTICS

Useful capacity  – L	204	394	394	394	394	755
Useful capacity  – L	35	74	74	74	74	174
Weight empty without equipment – kg	165	230	190	245	205	275
Weight full without equipment  kg	326	545	505	546	505	890
Weight full without equipment  kg	192	285	245	286	245	435
Static autonomy ⁽¹⁾  – d	42	47	47	47	47	73
Static autonomy ⁽¹⁾  – d	7	8	8	8	8	16
Theoretical daily evaporation ⁽¹⁾ – L/d	4,8	8,3	8,3	8,3	8,3	10,3
(A) Width – mm	650	932	886	932	886	1150
(B) External depth – mm	940	1100	1100	1100	1100	1375
(C) Access height – mm	1205	1172	1172	1172	1172	1355
(D) Total height with SERENY-T Box display – mm	1465	1432	1432	1432	1432	1615
(E) Total height with cap open – mm	1855	2 070	2 070	2 070	2 070	2 520
(F) Neck diameter – mm	538	771	771	738	738	1 002
(G) Internal height under cap – mm	745	690	690	683	683	710
(H) Inside height under cap max.  – mm	-	-	-	777	777	830



ESSENTIAL

SERENY-T BOX electronic
+ automatic filling
+ filling safety
+ degassing kit



Options
available

ESSENTIAL+

SERENY-T BOX electronic
+ automatic filling
+ filling safety
+ degassing kit
+ rotating tray



⁽¹⁾ Holding tests are performed under the conditions of the ISO 21014 standard extrapolated to the volumes evaluated according to the theoretical models. Daily evaporation and holding times are at 20°C, 1,013 mb, with a stationary container and a closed lid. These values are nominal and may vary based on the history of the container and manufacturing tolerances.





Cryogenic containers

ESPACE 151

References

ESSENTIAL

SERENY-T BOX electronic
+ automatic filling
+ filling safety + degassing kit

ESP151SB-LC-2

ESP151SB-GC-2

ESSENTIAL+

SERENY-T BOX electronic
+ automatic filling + filling safety
+ degassing kit + rotating tray

With casing

Container fittings WITHOUT rotating tray liquid or gas version

TYPE OF STORAGE		DESIGNATION	REFERENCE
Inventory systems	Straws visotubes ⁽¹⁾ / rack	1 rack of 4 levels (max. 7 racks per container)	ACC-RACK-39
		Set of 7 racks	ACC-RACK-196
	Straws gobelets / canister	1 polycarbonate canister 5 levels (max. 46 canisters per container)	ACC-PLASCAN-3
		Set of 46 canisters and 230 gobelets	ACC-PLASCAN-116
	Cryo-vials 2 ml in rack	1 rack of 13 levels for boxes of 81 / 100 tubes (max. 7 racks per container)	ACC-RACK-6
		1 rack of 13 levels for boxes of 25 tubes (max. 4 racks per container)	ACC-RACK-9
		Set of 7 + 4 racks ⁽²⁾	ACC-RACK-146
	Cryo-vials 5 ml in rack	1 rack of 7 levels for boxes of 81 tubes (max. 7 racks per container)	ACC-RACK-29
		Set of 7 racks	ACC-RACK-147
	Bags 25 ml	type PALL 1 rack of 7 levels (max. 15 racks per container)	ACC-RACK-204
		type THERMOGENESIS 1 rack of 8 levels (max. 24 racks per container)	ACC-RACK-195
		type BIOSAFE 1 rack of 8 decks (max. 24 racks per container)	ACC-RACK-195
	Bags 50 ml	type BAXTER (R4R9951) 1 rack of 7 levels (max. 14 racks per container)	ACC-RACK-37
		Set of 14 racks	ACC-RACK-119
	Bags 200 / 250 ml	type BAXTER (R4R9954) / GAMBRO (DF200) 1 rack of 4 levels (max. 12 racks per container)	ACC-RACK-38
		Set of 12 racks	ACC-RACK-115
	Bags 500 ml	type BAXTER (R4R9955) 1 rack of 4 levels (max. 7 racks per container)	ACC-RACK-34
		Set of 7 racks	ACC-RACK-121
	Bags 750 ml	type BAXTER (R4R9957) 1 rack of 4 levels (max. 7 racks per container)	ACC-RACK-35
		Set of 7 racks	ACC-RACK-122
	Bags 700 ml	type GAMBRO (DF700) 1 vertical rack of 2 levels (max. 10 racks per container)	ACC-RACK-32
		Set of 10 vertical racks	ACC-RACK-116
		1 horizontal rack of 4 levels (max. 8 racks per container)	ACC-RACK-36
		Set of 8 horizontal racks	ACC-RACK-174

Click here  to see all the **accessories**

Storage capacity does not vary between the liquid and gas versions.

(1) 85 visotubes per level. (2) ESPACE 151 without a rotating tray is fully equipped with: 7 racks for boxes of 81 or 100 tubes + 4 racks for boxes of 25 tubes.





Cryoconservateurs

ESPACE 331 Without casing

References

ESSENTIAL

SERENY-T BOX electronic
+ automatic filling
+ filling safety + degassing kit

ESP331SB-LNC-3

ESP331SB-GNC-3

ESSENTIAL+

SERENY-T BOX electronic
+ automatic filling + filling safety
+ degassing kit + rotating tray

ESP331SB-LNC-4

ESP331SB-GNC-4

Container fittings WITH rotating tray liquid or gas version

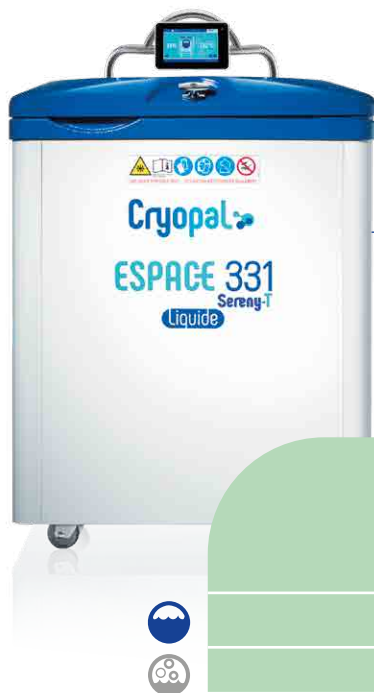
TYPE OF STORAGE		DESIGNATION	REFERENCE
Inventory systems	Straws visotubes ⁽¹⁾ / rack	1 rack of 4 levels (max. 15 racks per container)	ACC-RACK-39
		Set of 15 racks	ACC-RACK-198
	Straws gobelets / canister	1 polycarbonate canister 5 levels (max. 88 canisters per container)	ACC-PLASCAN-3
		Set of 88 canisters and 440 gobelets	ACC-PLASCAN-104
	Cryo-vials 2 ml in rack	1 rack of 12 levels for boxes of 81 / 100 tubes (max. 15 racks per container)	ACC-RACK-5
		1 rack of 12 levels for boxes of 25 tubes (max. 6 racks per container)	ACC-RACK-8
		Set of 15 + 6 racks ⁽²⁾	ACC-RACK-150
	Cryo-vials 5 ml in rack	1 rack of 6 levels for boxes of 81 tubes (max. 15 racks per container)	ACC-RACK-28
		Set of 15 racks	ACC-RACK-151
	Bags 25 ml	type PALL 1 rack of 6 levels (max. 32 racks per container)	ACC-RACK-203
		type THERMOGENESIS 1 rack of 7 levels (max. 52 racks per container)	ACC-RACK-202
		type BIOSAFE 1 rack of 7 levels (max. 52 racks per container)	ACC-RACK-202
	Bags 50 ml	type BAXTER (R4R9951) 1 rack of 7 levels (max. 29 racks per container)	ACC-RACK-37
		Set of 29 racks	ACC-RACK-135
	Bags 200 / 250 ml	type BAXTER (R4R9954) / GAMBRO (DF200) 1 rack of 4 levels (max. 25 racks per container)	ACC-RACK-38
		Set of 25 racks	ACC-RACK-131
	Bags 500 ml	type BAXTER (R4R9955) 1 rack of 4 levels (max. 15 racks per container)	ACC-RACK-34
		Set of 15 racks	ACC-RACK-129
	Bags 750 ml	type BAXTER (R4R9957) 1 rack of 4 levels (max. 12 racks per container)	ACC-RACK-35
		Set of 12 racks	ACC-RACK-137
	Bags 700 ml	type GAMBRO (DF700) 1 vertical rack with 2 levels (max. 20 racks per container)	ACC-RACK-32
		Set of 20 vertical racks	ACC-RACK-132
		1 horizontal rack of 4 levels (max. 16 racks per container)	ACC-RACK-36
		Set of 16 horizontal racks	ACC-RACK-176

Click here  to see all the **accessories**

Storage capacity does not vary between the liquid and gas versions.

(1) 85 visotubes per level. (2) ESPACE 331 with a rotating tray is fully equipped with: 15 racks for boxes of 81 or 100 tubes + 6 racks for boxes of 25 tubes.





Cryoconservateurs

ESPACE 331 With casing

References

ESSENTIAL

SERENY-T BOX electronic
+ automatic filling
+ filling safety + degassing kit

ESP331SB-LC-3

ESP331SB-GC-3

ESSENTIAL+

SERENY-T BOX electronic
+ automatic filling + filling safety
+ degassing kit + rotating tray

ESP331SB-LC-4

ESP331SB-GC-4

Container fittings WITHOUT rotating tray liquid or gas version

TYPE OF STORAGE		DESIGNATION	REFERENCE
Inventory systems	Straws visotubes ⁽¹⁾ / rack	1 rack of 4 levels (max. 17 racks per container)	ACC-RACK-39
		Set of 17 racks	ACC-RACK-197
	Straws gobelets / canister	1 polycarbonate canister 5 levels (max. 97 canisters per container)	ACC-PLASCAN-3
		Set of 88 canisters and 485 gobelets	ACC-PLASCAN-105
	Cryo-vials 2 ml in rack	1 rack of 12 levels for boxes of 81 / 100 tubes (max. 17 racks per container)	ACC-RACK-5
		1 rack of 12 levels for boxes of 25 tubes (max. 6 racks per container)	ACC-RACK-8
		Set of 17 + 6 racks ⁽²⁾	ACC-RACK-148
	Cryo-vials 5 ml in rack	1 rack of 6 levels for boxes of 81 tubes (max. 17 racks per container)	ACC-RACK-28
		Set of 17 racks	ACC-RACK-149
	Bags 25 ml	type PALL 1 rack of 6 levels (max. 36 racks per container)	ACC-RACK-203
		type THERMOGENESIS 1 rack of 7 levels (max. 57 racks per container)	ACC-RACK-202
		type BIOSAFE 1 rack of 7 levels (max. 57 racks per container)	ACC-RACK-202
	Bags 50 ml	type BAXTER (R4R9951) 1 rack of 7 levels (max. 30 racks per container)	ACC-RACK-37
		Set of 30 racks	ACC-RACK-127
	Bags 200 / 250 ml	type BAXTER (R4R9954) / GAMBRO (DF200) 1 rack of 4 levels (max. 27 racks per container)	ACC-RACK-38
		Set of 27 racks	ACC-RACK-123
	Bags 500 ml	type BAXTER (R4R9955) 1 rack of 4 levels (max. 15 racks per container)	ACC-RACK-34
		Lot de 15 racks	ACC-RACK-129
	Bags 750 ml	type BAXTER (R4R9957) 1 rack of 4 levels (max. 13 racks per container)	ACC-RACK-35
		Set of 13 racks	ACC-RACK-130
	Bags 700 ml	type GAMBRO (DF700) 1 vertical rack with 2 levels (max. 21 racks per container)	ACC-RACK-32
		Set of 21 vertical racks	ACC-RACK-124
		1 horizontal rack of 4 levels (max. 18 racks per container)	ACC-RACK-36
		Set of 18 horizontal racks	ACC-RACK-175

Click here  to see all the **accessories**

Storage capacity does not vary between the liquid and gas versions.

(1) 85 visotubes per level. (2) ESPACE 331 with a rotating tray is fully equipped with: 17 racks for boxes of 81 or 100 tubes + 6 racks for boxes of 25 tubes.





Cryogenic containers

ESPACE 661

References

ESSENTIAL

SERENY-T BOX electronic
+ automatic filling
+ filling safety + degassing kit

ESSENTIAL+

SERENY-T BOX electronic
+ automatic filling + filling safety
+ degassing kit + rotating tray



ESP661SB-LNC-2

ESP661SB-GNC-2

Container fittings WITHOUT rotating tray liquid or gas version

TYPE OF STORAGE		DESIGNATION	REFERENCE
Inventory systems	Straws visotubes ⁽¹⁾ / rack	1 rack of 4 levels (max. 31 racks per container)	ACC-RACK-39
		Set of 31 racks	ACC-RACK-199
	Straws gobelets / canister	1 polycarbonate canister 5 levels (max. 163 canisters per container)	ACC-PLASCAN-3
		Set of 163 canisters and 815 gobelets	ACC-PLASCAN-106
	Cryo-vials 2 ml in rack	1 rack of 12 levels for boxes of 81 / 100 tubes (max. 31 racks per container)	ACC-RACK-5
		1 rack of 12 levels for boxes of 25 tubes (max. 4 racks per container)	ACC-RACK-8
		Lot de 31 + 4 racks ⁽²⁾	ACC-RACK-152
	Cryo-vials 5 ml in rack	1 rack of 6 levels for boxes of 81 tubes (max. 31 racks per container)	ACC-RACK-28
		Set of 31 racks	ACC-RACK-153
	Bags 25 ml	type PALL 1 rack of 7 levels (max. 62 racks per container)	ACC-RACK-204
		type THERMOGENESIS 1 rack of 7 levels (max. 99 racks per container)	ACC-RACK-202
		type BIOSAFE 1 rack of 7 levels (max. 99 racks per container)	ACC-RACK-202
	Bags 50 ml	type BAXTER (R4R9951) 1 rack of 7 levels (max. 56 racks per container)	ACC-RACK-37
		Set of 56 racks	ACC-RACK-142
	Bagss 200 / 250 ml	type BAXTER (R4R9954) / GAMBRO (DF200) 1 rack of 4 levels (max. 50 racks per container)	ACC-RACK-38
		Set of 50 racks	ACC-RACK-138
	Bags 500 ml	type BAXTER (R4R9955) 1 rack of 4 levels (max. 28 racks per container)	ACC-RACK-34
		Set of 28 racks	ACC-RACK-144
	Bags 750 ml	type BAXTER (R4R9957) 1 rack of 4 levels (max. 23 racks per container)	ACC-RACK-35
		Set of 23 racks	ACC-RACK-145
	Bags 700 ml	type GAMBRO (DF700) 1 vertical rack with 2 levels (max. 38 racks per container)	ACC-RACK-32
		Set of 38 vertical racks	ACC-RACK-139
		1 horizontal rack of 4 levels (max. 32 racks per container)	ACC-RACK-36
		Set of 32 horizontal racks	ACC-RACK-177

Click here  to see all the **accessories**

Storage capacity does not vary between the liquid and gas versions.

(1) 85 visotubes per level. (2) ESPACE 661 with a rotating tray is fully equipped with: 31 racks for boxes of 81 or 100 tubes + 4 racks for boxes of 25 tubes.



Accessories

TYPE OF STORAGE	DESIGNATION	REFERENCE
Straws	Goblet Diam 65 mm (Order in multiples of 20)	ACC-BOXTUBE-301
	White daisy goblet Diam 65 + lid (Order in multiples of 5)	ACC-BOXTUBE-302
	Goblet with holes Diam 65 mm + lid (Order in multiples of 10)	ACC-BOXTUBE-415
	Polygonal Visotube (Order in multiples of 50)	ACC-BOXTUBE-1
	Visotube Diam 10 (Order in multiples of 50)	ACC-BOXTUBE-3
	Visotube Diam 12 (Order in multiples of 50)	ACC-BOXTUBE-4
	Visotube Diam 12 with lid (Order in multiples of 50)	ACC-BOXTUBE-5
Cryo-vials 1,2 - 2 ml	1ml vials with skirt white lid (Order in multiples of 50)	ACC-BOXTUBE-6
	2ml round bottom vials with white lid (Order in multiples of 50)	ACC-BOXTUBE-11
	Cryoplastic Box 133x133x51 (Capacity 100 x 2 ml vials) (Order in multiples of 5)	ACC-BOXTUBE-104
	Cryoplastic Boxes 76x76x51 (Capacity 25 x 2 ml vials) (Order in multiples of 8)	ACC-BOXTUBE-105
	Cryoplastic Box 133x133x51 (Capacity 81 x 2 ml vials) (Order in multiples of 5)	ACC-BOXTUBE-106
Cryo-vials 5 ml	5ml round bottom vials with white lid (Order in multiples of 50)	ACC-BOXTUBE-16
	Cryoplastic Box 133x133x95 (Capacity 81 x 5 ml vials) (Order in multiples of 4)	ACC-BOXTUBE-107
Bags 25 ml	Cardboard cassette (bag 25ml) (Order in multiples of 700)	ACC-BOXTUBE-254
Bags 50 ml	Cardboard cassette (bag 50ml) (order in multiples of 600)	ACC-RACK-250
	Aluminium cassette for Baxter50 bag	ACC-RACK-200
	Mid-Aluminium mid-Plastic cassette for Baxter50 bag	ACC-RACK-203
Bags 200/250 ml BAXTER GAMBRO	Mid-Aluminium mid-Plastic cassette for DF200 bag	ACC-BOXTUBE-204
	Aluminium cassette for DF200 bag	ACC-BOXTUBE-205
	Cardboard cassette (bag 200ml) (Order in multiples of 380)	ACC-BOXTUBE-251
Bags 500 ml BAXTER	Aluminium cassette for DF700 Horizontal bag	ACC-BOXTUBE-201
	Mid-Aluminium mid-Plastic cassette for DF700 Horizontal bag	ACC-BOXTUBE-202
	Cardboard cassette (bag 500ml) (Order in multiples of 300)	ACC-BOXTUBE-252
Bags 700 ml GAMBRO	Aluminium cassette for DF700 Horizontal bag	ACC-BOXTUBE-206
	Mid-Aluminium mid-Plastic cassette for DF700 Horizontal bag	ACC-BOXTUBE-207
	Cardboard cassette (bag 750ml) (Order in multiples of 300)	ACC-BOXTUBE-253



Accessories

TYPE OF STORAGE	DESIGNATION	REFERENCE
Filling	Flexible hose DN10 - 180/180 for LN - L=1,5m	ACC-FL180180NL-15
	Flexible hose DN10 - 180/180 for LN - L=2m	ACC-FL180180NL-20
	Flexible hose DN10 - 180/180 for LN - L=3m	ACC-FL180180NL-30
	Vacuum Insulated Pipe DN8 LG 2M 180-180 / wing nut connection	FLEX-VIP-2M
	TC withdrawal rod for Flexible hose 180/180 ND10 LN + Anti-splash plug	ACC-FLTC-2
	Long level rod (manual measurement)	ACC-BOXTUBE-412
Other	Marking rack ESPACE / RCB	ACC-RACK-223
	Protective tarpaulin cleaning lid ESP/RCB	ACC-ESP-344
	Rotating drum for Espace331	ACC-ESP-2
	Foot board for Espace661	ACC-ESP-341
Safety	Gloves (Size 8)	ACC-SECU-15
	Gloves (Size 9)	ACC-SECU-16
	Gloves (Size 10)	ACC-SECU-17
	Gloves (Size 11)	ACC-SECU-18
	Gaiters (One Size)	ACC-SECU-30
	Protective goggles	ACC-SECU-2
	Apron (Unique size)	ACC-SECU-19
	Protective visor	ACC-SECU-1
	Personal o2 detector BW Clip	ACC-SECU-26



Line

500

600

1001

2000

RCB

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High-capacity cryopreservation containers with narrow necks for storing biological samples in straws, cryo-tubes, bags or other.

RCB

500

600

1001

2000



Key benefits

- > Optimum thermal performance
- > Narrow neck for greater autonomy
- > Available for gas-phase or liquid-phase storage
- > Capacity for up to 1 377 600 straws, 100 000 tubes or 9 400 bags
- > Ideal for long-term preservation of samples
- > Easy to use thanks to the compensated cap
- > A system for clearing the gas stream after opening to facilitate sample removal
- > SERENY-T BOX monitoring electronics
- > 6 years vacuum warranty

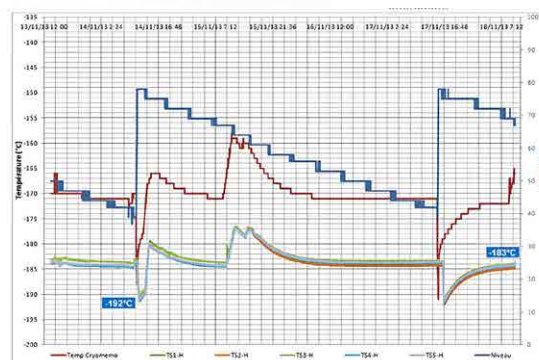


The **RCB** range benefits from a technology that provides homogenisation of the temperature in the cryogenic chamber, with a reduced gradient between the neck and the bottom of the vessel. Temperature maps for each model are available on request.

Easy to use thanks to :

A system for clearing the gas ceiling after opening for better visibility and easier sample removal.

RCB are equipped as standard with a rotating tray giving access to all racks and samples by a simple rotation.



Innovative and intelligent monitoring and control solution from the RCB range. See details in the 'Monitoring System' brochure.

Gas phase

The samples are stored in nitrogen vapour: samples are not in direct contact with liquid nitrogen.



Liquid phase

The samples are stored immersed in liquid nitrogen depending on the level.



RCB cryobanking containers are class-IIa medical devices – GMDN code 16534.



Yours needs

Choose the size of your container according to your storage requirements.



Equal storage capacity
in liquid  or gas phase 

STRAWS

**Standard goblets
Ø65 mm**
(in canisters)

**Daisy goblets
Ø65 mm**
(in canisters)⁽¹⁾

**Visotubes
Ø12 mm**
(in racks)

VIALS

**Boxes
of 100 and
25 vials**

**Boxes
of 81 vials**

BAGS

with / without holster

25 ml

50 ml

200/250 ml

500 ml

700/750 ml

RCB 500

RCB 600

RCB 1001

RCB 2000

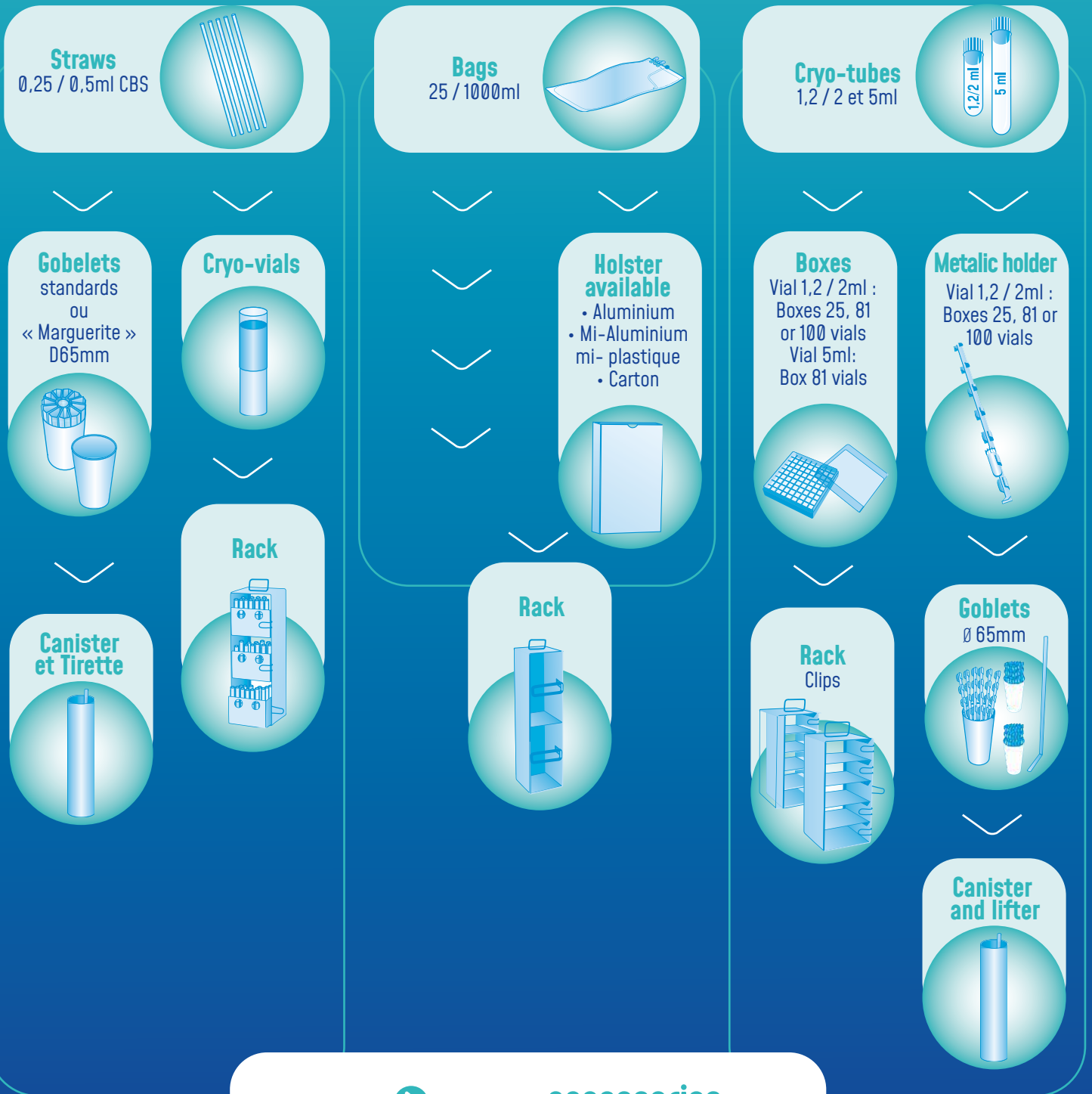
	RCB 500	RCB 600	RCB 1001	RCB 2000
0,25 ml	492000	590400	922500	1377600
0,5 ml	219000	262800	410625	613200
CBS 0,3-0,5 ml	135000	162000	253125	378000
0,25 ml	324000	388800	607500	907200
0,5 ml	144000	172800	270000	403200
CBS 0,3-0,5 ml	100800	120960	189000	282240
0,25 ml	149600	149600	299200	403920
0,5 ml	54400	54400	108800	146880
CBS 0,3 - 0,5 ml	47600	47600	95200	128520
2 ml	27300	29400	48000	90400
5 ml	11340	12960	22680	43740
Thermogenesis	2 720 / -	3 060 / -	5 040 / -	9 400 / -
Biosafe	2 176 / -	2 448 / -	4 032 / -	7 520 / -
PALL	2 058 / -	2 352 / -	4 018 / -	7 182 / -
Standard (sans étui)	- / 1104	- / 1104	- / 2 208	3 050 / 3 660
Baxter	756 / 1 008	758 / 1 008	1470 / 1960	2 538 / 3 384
DF200 / Baxter / Macopharma	384 / 512	384 / 512	744 / 992	1260 / 1680
Baxter / Macopharma	360 / 432	360 / 432	720 / 864	1100 / 1320
DF700	- / 312	- / 312	- / 600	- / 1188
DF700 H / Macopharma	240 / 320	240 / 320	456 / 608	990 / 1320
Baxter 750 ml	- / 224	- / 224	- / 480	- / 840

⁽¹⁾ The «daisy» goblet with cap is available in 6 colours (white, red, green, blue, parma, yellow).



Inventory systems

RCB



Click here  to see all the **accessories**

Standard or mixed, don't hesitate to contact us to receive a drawing of your future layout. Example of RCB 600 layout without turntable for 2 ml tubes (top view): 20 racks for boxes of 81 or 100 tubes + 4 racks for boxes of 25 tubes.

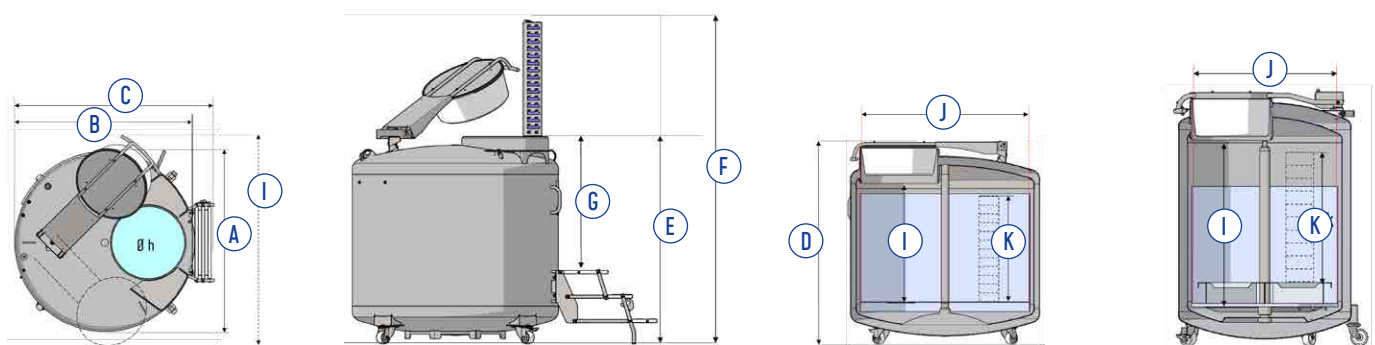


Our solutions

Liquid  or Gas  phase

	500	600	1001	2000
		 	 	 
Useful capacity  - L	500	625	996	1 636
Useful capacity  - L	NA	125	241	223
Weight empty without equipment - kg	270	320	470	750
Weight full without equipment  kg	674	824	1 273	2 069
Weight full without equipment  kg	NA	421	665	930
Static autonomy ⁽¹⁾  - D	98	122	142	155
Static autonomy ⁽¹⁾  - D	NA	24	34	21
Theoretical daily evaporation ⁽¹⁾ - L/D	5,1	5,1	7	10,6
(A) Width - mm	1 100	1 100	1 350	1 524
(B) External depth (without footboard) - mm	1 160	1 160	1 420	1 557
(C) External depth (with folded footboard) - mm	NA	NA	NA	1 723
(D) Total height, cap (compensated) closed - mm	1 305	1 485	1 427	1 664
(E) Access height - mm	1 260	1 440	1 382	1 615
(F) Maximum handling height of an inventory system accessory - mm	2 060	2 300	2 130	2 570
(G) Height of access to container opening from step - mm	NA	1 190 (option)	1 132 (option)	1 045
(H) Neck diameter - mm	461	461	601	618
(I) Width, open compensated cap - mm	1 210	1 210	1 880	1 985
(J) Nominal storage diameter - mm	850	850	1 150	1 354
(K) Nominal storage height - mm	730	786	674	885
(L) Maximum storage height - mm		780	955	858
		NA	815	718

TECHNICAL CHARACTERISTICS



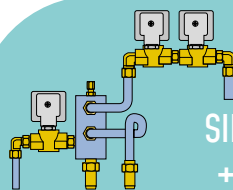
SIMPLE

OPTIONS
AVAILABLE

Container without
electronics
+ compensated cap



ESSENTIAL



SIMPLE container
+ SERENY-T BOX
+ automatic refill
+ degassing





Cryogenic containers

RCB500

References

SIMPLE

ESSENTIAL

Container without electronics
+ compensated cap

Réceptacle SIMPLE
+ SERENY-T BOX + remplissage auto
+ dégazage

RCB500N-L-2

RCB500SB-L-3



TYPE OF STORAGE		DESIGNATION	REFERENCE
Inventory systems	Straws visotubes ⁽¹⁾ / rack	1 Rack 4 levels (max 20 racks per container)	ACC-RACK-39
		Set of 20 Racks	ACC-RACK-200
	Straws gobelets / canister	1 plastic Canister 5 levels (max 120 canisters per container)	ACC-PLASCAN-3
		Set of 120 canisters and 600 gobelets and lifters	ACC-PLASCAN-100
	Cryo-vials 2 ml in rack	1 Rack 13 levels for boxes of 81/100 vials (max 20 racks per container)	ACC-RACK-6
		1 Rack 13 levels for boxes of 20 vials (max 4 racks per container)	ACC-RACK-9
		Set of 20 + 4 racks	ACC-RACK-168
	Cryo-vials 5 ml in rack	1 Rack 7 levels for boxes of 81 vials (max 20 racks per container)	ACC-RACK-29
		Set of 20 Racks	ACC-RACK-169
	Bags 25 ml	type PALL 1 Rack 7 levels (max 42 racks per container)	ACC-RACK-204
		type THERMOGENESIS 1 Rack 8 levels (max 68 racks per container)	ACC-RACK-195
		type BIOSAFE 1 Rack 8 levels (max 68 racks per container)	ACC-RACK-195
	Bags 50 ml	type BAXTER (R4R9951) 1 Rack 7 levels (max 36 racks per container)	ACC-RACK-37
		Set of 36 Racks	ACC-RACK-157
	Bags 200 / 250 ml	type BAXTER (R4R9954) / GAMBRO (DF200) 1 Rack 4 levels (max 32 racks per container)	ACC-RACK-38
		Set of 32 Racks	ACC-RACK-154
	Bags 500 ml	type BAXTER (R4R9955) 1 Rack 4 levels (max 18 racks per container)	ACC-RACK-34
		Set de 18 racks	ACC-RACK-159
	Bags 750 ml	type BAXTER (R4R9957) 1 Rack 4 levels (max 14 racks per container)	ACC-RACK-35
		Set of 14 Racks	ACC-RACK-160
	Bags 700 ml	type GAMBRO (DF700) 1 vertical Rack 2 levels (max 26 racks per container)	ACC-RACK-32
		Set of 26 vertical Racks	ACC-RACK-155
		1 horizontal Rack 4 levels (max 20 racks per container)	ACC-RACK-36
		Set of 20 horizontal Racks	ACC-RACK-178

Click here  to see all the **accessories**

Storage capacity does not vary between the liquid and gas versions.
(1) 85 visotubes per level.





Cryogenic containers

RCB600

References

SIMPLE

ESSENTIAL

Container without electronics
+ compensated cap

Réceptacle SIMPLE
+ SERENY-T BOX + remplissage auto
+ dégazage

RCB600N-L-2

RCB600SB-L-3

-

RCB600SB-G-3

TYPE OF STORAGE		DESIGNATION	REFERENCE
Inventory systems	Straws visotubes ⁽¹⁾ / rack	1 Rack 4 levels (max 20 racks per container)	ACC-RACK-39
		Set of 20 Racks	ACC-RACK-200
	Straws gobelets / canister	1 plastic canister 6 levels (max 120 canisters per container)	ACC-PLASCAN-5
		Set of 120 canisters and 720 goblets and lifters	ACC-PLASCAN-101
	Cryo-vials 2 ml in rack	1 Rack 14 levels for boxes of 81/100 vials (max 20 racks per container)	ACC-RACK-30
		1 Rack 14 levels for boxes of 25 vials (max 4 racks per container)	ACC-RACK-31
		Set of 20 + 4 Racks	ACC-RACK-170
	Cryo-vials 5 ml in rack	1 Rack 8 levels for boxes of 81 vials (max 20 racks per container)	ACC-RACK-3
		Set of 20 Racks	ACC-RACK-171
	Bags 25 ml	type PALL 1 Rack 8 levels (max 42 racks per container)	ACC-RACK-205
		type THERMOGENESIS 1 Rack 9 levels (max 68 racks per container)	ACC-RACK-194
		type BIOSAFE 1 Rack 9 levels (max 68 racks per container)	ACC-RACK-194
	Bags 50 ml	type BAXTER (R4R9951) 1 Rack 7 levels (max 36 racks per container)	ACC-RACK-37
		Set of 36 Racks	ACC-RACK-157
	Bags 200 / 250 ml	type BAXTER (R4R9954) / GAMBRO (DF200) 1 Rack 4 levels (max 32 racks per container)	ACC-RACK-38
		Set of 32 Racks	ACC-RACK-154
	Bags 500 ml	type BAXTER (R4R9955) 1 Rack 4 levels (max 18 racks per container)	ACC-RACK-34
		Set of 18 Racks	ACC-RACK-159
	Bags 750 ml	type BAXTER (R4R9957) 1 Rack 4 levels (max 14 racks per container)	ACC-RACK-35
		Set of 14 Racks	ACC-RACK-160
	Bags 700 ml	type GAMBRO (DF700) 1 vertical Rack 2 levels (max 26 racks per container)	ACC-RACK-32
		Set of 26 vertical Racks	ACC-RACK-155
		1 horizontal Rack 4 levels (max 20 racks per container)	ACC-RACK-36
		Set of 20 horizontal Racks	ACC-RACK-178

Click here  to see all the **accessories**

Storage capacity does not vary between the liquid and gas versions.
(1) 85 visotubes per level.





Cryogenic containers

RCB 1001

References

SIMPLE

ESSENTIAL

Container without electronics
+ compensated cap

Réceptacle SIMPLE
+ SERENY-T BOX + remplissage auto
+ dégazage

RCB1001N-L-2

RCB1001SB-L-3

-

RCB1001SB-G-3



Inventory systems

TYPE OF STORAGE		DESIGNATION	REFERENCE
Straws visotubes ⁽¹⁾ / rack		1 Rack 4 levels (max 40 racks per container)	ACC-RACK-39
		Set of 40 Racks	ACC-RACK-201
Straws gobelets / canister		1 plastic Canister 5 levels (max 225 canisters per container)	ACC-PLASCAN-3
		Set of 225 canisters and 1,125 goblets and lifters	ACC-PLASCAN-102
Cryo-vials 2 ml in rack		1 Rack 12 levels for boxes of 81/100 vials (max 40 racks per container)	ACC-RACK-5
		Set of 40 Racks	ACC-RACK-172
Cryo-vials 5 ml in rack		1 Rack 7 levels for boxes of 81 vials (max 40 racks per container)	ACC-RACK-29
		Set of 40 Racks	ACC-RACK-173
Bags 25 ml	type PALL	1 Rack 7 levels (max 42 racks per container)	ACC-RACK-204
	type THERMOGENESIS	1 Rack 8 levels (max 68 racks per container)	ACC-RACK-195
	type BIOSAFE	1 Rack 8 levels (max 68 racks per container)	ACC-RACK-195
Bags 50 ml	type BAXTER (R4R9951)	1 Rack 7 levels (max 70 racks per container)	ACC-RACK-37
		Set of 70 Racks	ACC-RACK-164
Bags 200 / 250 ml	type BAXTER (R4R9954) / GAMBRO (DF200)	1 Rack 4 levels (max 62 racks per container)	ACC-RACK-38
		Set of 62 Racks	ACC-RACK-161
Bags 500 ml	type BAXTER (R4R9955)	1 Rack 4 levels (max 36 racks per container)	ACC-RACK-34
		Set of 36 Racks	ACC-RACK-166
Bags 750 ml	type BAXTER (R4R9957)	1 Rack 4 levels (max 30 racks per container)	ACC-RACK-35
		Set of 30 Racks	ACC-RACK-167
Bags 700 ml	type GAMBRO (DF700)	1 vertical Rack 2 levels (max 50 racks per container)	ACC-RACK-32
		Set of 50 vertical Racks	ACC-RACK-162
		1 horizontal Rack 4 levels (max 38 racks per container)	ACC-RACK-36
		Set of 38 horizontal Racks	ACC-RACK-179

Click here  to see all the **accessories**

Storage capacity does not vary between the liquid and gas versions.
(1) 85 visotubes per level.





Cryogenic containers

RCB2000

References

SIMPLE

Container without electronics
+ compensated cap

RCB2000N-L-2

-

ESSENTIAL

Réceptacle SIMPLE
+ SERENY-T BOX + remplissage auto
+ dégazage

RCB2000SB-L-3

RCB2000SB-G-3

TYPE OF STORAGE		DESIGNATION	REFERENCE
Inventory systems	Straws gobelets / canister	1 Polycarbonate canister 6 levels (max. 280 racks per container)	ACC-PLASCAN-5
	Cryo-vials 2 ml in rack	1 aluminium 16 levels rack for boxes of 81 or 100 vials (max. 54 racks per container)	ACC-RACK-53
		1 aluminium 16 levels rack for boxes of 25 vials (max. 10 racks per container)	ACC-RACK-54
		Set of 54 + 10 racks	ACC-RACK-503
	Cryo-vials 5 ml in rack	1 aluminium 9 levels rack for boxes of 81 vials (max. 54 racks per container)	ACC-RACK-55
		Set of 54 Racks	ACC-RACK-505
	Bags 25 ml	type PALL 1 aluminium 9 levels rack for 25ml bags (PALL case)	ACC-RACK-206
		Set of 114 Racks 9 levels for 25ml bags (PALL case)	ACC-RACK-506
		type THERMOGENESIS 1 aluminium 10 levels rack for 25ml bags	ACC-RACK-193
		Set of 188 10 levels Racks for 25ml bags (THERMO case)	ACC-RACK-507
		type BIOSAFE 1 aluminium 10 levels rack for 25ml bags	ACC-RACK-193
		Set of 188 10 levels Racks for 25ml bags (THERMO case)	ACC-RACK-507
	Bags 700 ml	type GAMBRO (DF700) 1 aluminium 3 levels racks for DF700 bags	ACC-RACK-70
		Set of 66 3 levels Racks for DF700 bags	ACC-RACK-603
		1 aluminium 5 levels Rack for DF700H bags	ACC-RACK-510
		Set of 52 5 levels Racks for DF700H bags	ACC-RACK-511

Click here  to see all the **accessories**

Storage capacity does not vary between the liquid and gas versions.



Accessories

TYPE OF STORAGE	DESIGNATION	REFERENCE
Straws	Goblet Diam 65 mm (Order in multiples of 20)	ACC-BOXTUBE-301
	White daisy goblet Diam 65 + lid (Order in multiples of 5)	ACC-BOXTUBE-302
	Goblet with holes Diam 65 mm + lid (Order in multiples of 10)	ACC-BOXTUBE-415
	Polygonal Visotube (Order in multiples of 50)	ACC-BOXTUBE-1
	Visotube Diam 10 (Order in multiples of 50)	ACC-BOXTUBE-3
	Visotube Diam 12 (Order in multiples of 50)	ACC-BOXTUBE-4
	Visotube Diam 12 with lid (Order in multiples of 50)	ACC-BOXTUBE-5
Cryo-vials 1,2 - 2 ml	1ml vials with skirt white lid (Order in multiples of 50)	ACC-BOXTUBE-6
	2ml round bottom vials with white lid (Order in multiples of 50)	ACC-BOXTUBE-11
	Cryoplastic Box 133x133x51 (Capacity 100 x 2 ml vials) (Order in multiples of 5)	ACC-BOXTUBE-104
	Cryoplastic Boxes 76x76x51 (Capacity 25 x 2 ml vials) (Order in multiples of 8)	ACC-BOXTUBE-105
	Cryoplastic Box 133x133x51 (Capacity 81 x 2 ml vials) (Order in multiples of 5)	ACC-BOXTUBE-106
Cryo-vials 5 ml	5ml round bottom vials with white lid (Order in multiples of 50)	ACC-BOXTUBE-16
	Cryoplastic Box 133x133x95 (Capacity 81 x 5 ml vials) (Order in multiples of 4)	ACC-BOXTUBE-107
Bags 25 ml	Cardboard cassette (bag 25ml) (Order in multiples of 700)	ACC-BOXTUBE-254
Bags 50 ml	Cardboard cassette (bag 50ml) (order in multiples of 600)	ACC-RACK-250
	Aluminium cassette for Baxter50 bag	ACC-RACK-200
	Mid-Aluminium mid-Plastic cassette for Baxter50 bag	ACC-RACK-203
Bags 200/250 ml BAXTER GAMBRO	Mid-Aluminium mid-Plastic cassette for DF200 bag	ACC-BOXTUBE-204
	Aluminium cassette for DF200 bag	ACC-BOXTUBE-205
	Cardboard cassette (bag 200ml) (Order in multiples of 380)	ACC-BOXTUBE-251
Bags 500 ml BAXTER	Aluminium cassette for DF700 Horizontal bag	ACC-BOXTUBE-201
	Mid-Aluminium mid-Plastic cassette for DF700 Horizontal bag	ACC-BOXTUBE-202
	Cardboard cassette (bag 500ml) (Order in multiples of 300)	ACC-BOXTUBE-252
Bags 700 ml GAMBRO	Aluminium cassette for DF700 Horizontal bag	ACC-BOXTUBE-206
	Mid-Aluminium mid-Plastic cassette for DF700 Horizontal bag	ACC-BOXTUBE-207
	Cardboard cassette (bag 750ml) (Order in multiples of 300)	ACC-BOXTUBE-253



Accessories

TYPE OF STORAGE	DESIGNATION	REFERENCE
Filling	Flexible hose DN10 - 180/180 for LN - L=1,5m	ACC-FL180180NL-15
	Flexible hose DN10 - 180/180 for LN - L=2m	ACC-FL180180NL-20
	Flexible hose DN10 - 180/180 for LN - L=3m	ACC-FL180180NL-30
	Vacuum Insulated Pipe DN8 LG 2M 180-180 / wing nut connection	FLEX-VIP-2M
	TC withdrawal rod for Flexible hose 180/180 ND10 LN + Anti-splash plug	ACC-FLTC-2
	Long level rod (manual measurement)	ACC-BOXTUBE-412
Other	Marking rack ESPACE / RCB	ACC-RACK-223
	Protective tarpaulin cleaning lid ESP/RCB	ACC-ESP-344
	Option double separator for RCB500/600	ACC-RCB-5
	Option triple separator for RCB500/600	ACC-RCB-6
	Option quadruple separator for RCB500/600	ACC-RCB-7
	Option double separator for RCB1000/1001	ACC-RCB-8
	Option quadruple separator for RCB1000/1001	ACC-RCB-10
	Option triple separator for RCB1000/1001	ACC-RCB-9
	Foot board for RCB600	ACC-RCB-213
	Foot board for RCB1000/1001	ACC-RCB-212
Safety	Gloves (Size 8)	ACC-SECU-15
	Gloves (Size 9)	ACC-SECU-16
	Gloves (Size 10)	ACC-SECU-17
	Gloves (Size 11)	ACC-SECU-18
	Gaiters (One Size)	ACC-SECU-30
	Protective goggles	ACC-SECU-2
	Apron (Unique size)	ACC-SECU-19
	Protective visor	ACC-SECU-1
	Personal o2 detector BW Clip	ACC-SECU-26



Line Sereny-T°

LOGGER BOX

Your needs

47

SERENY-T Logger

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SERENY-T Box

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References SERENY-T Box

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Your needs

our starting point for SERENY-T

Sereny-T°

In **cryobiology**, every **sample** counts. They are often precious, sometimes irreplaceable, and always sensitive. **Monitoring** them cannot be a constraint: it must be **seamless**, reliable, and integrate naturally into **your daily routine**.



Ensure the traceability of your samples during transport

When transporting samples, including by air, you must be able to guarantee their integrity at all times.

The Sereny-T Logger works independently to provide reliable proof that storage conditions have been maintained from departure to arrival.



Monitor your containers, with or without automatic regulation

Some containers are not equipped with an automatic control system. The SERENY-T Logger meets this need by monitoring the temperature and low nitrogen levels in all your containers.

It can also be used as an additional safety feature, even in installations already equipped with the SERENY-T Box, to provide independent and autonomous traceability.



Focus on your core business

In laboratories, monitoring cryogenic tanks can quickly become a hassle. With the SERENY-T Box, you can choose to stop worrying about it.

- Continuous monitoring of temperature and level
- Automated regulation and programmable filling
- Alerts prioritised and scheduled according to your on-call periods
- Integrated maintenance tracking



Sereny-T° LOGGER

Temperature logger
Low level alarm



Features that make the difference

> **2-in-1 product**

- Temperature logger
- Low level alarm

> **Stationary or mobile use**

> **Wide temperature range**

> **Large memory capacity**

> **Tilt detection detection**

> **Immediate reading of values and alarms**



2-in-1 product

- The SERENY-T° Logger is the essential solution to record and monitor temperature, as well as detecting low liquid nitrogen levels in your containers.



Stationary or mobile use

- Temperature recording and low level detection for stationary use with mains power.
- Temperature recording for mobile use thanks to a rechargeable battery.



Wide temperature range

- Measures and displays temperature in °C and °F from -200 to +55°C.



Large memory capacity

- 1 year of temperature and alert recording with a 2-minute acquisition frequency.



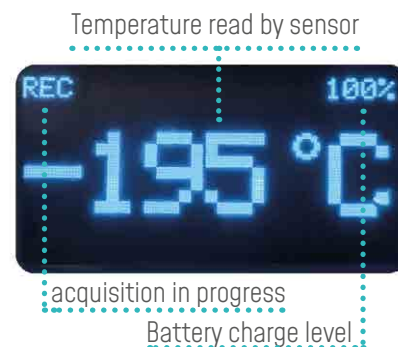
On-board tilt detection

- An alarm is generated when the equipment moves from the vertical to the horizontal position.



> Immediate reading of values and alarms

- The SERENY-T LOGGER is equipped with an OLED display.
- A LED indicates the operating status of the Sereny-T° Logger (Green = operating correctly - Blue = in acquisition - Red = alarm[s]).
- Alarms are symbolised by pictograms which appear alternately after the main screen.



Références commerciales

Référence	Désignation	Description
SERENY-T-LOGGER -1	SERENY-T-LOGGER -SIMPLE _ VR/GT	Module SERENY-T + sonde simple
SERENY-T-LOGGER -2	SERENY-T-LOGGER -SIMPLE + NIV _ GT	Module SERENY-T + sonde simple + sonde niveau bas + support GT
SERENY-T-LOGGER -3	SERENY-T-LOGGER -DOUBLE _ GT	Module SERENY-T + sonde double
SERENY-T-LOGGER -4	SERENY-T-LOGGER -DOUBLE+ NIV _ GT	Module SERENY-T + sonde double + sonde niveau bas + support GT

Technical specifications

Temperature measurement	• SPT100 temperature probe
	• Measurement redundancy via dual-element probe (optional)
	• Measurement range: -200 to +55°C • Acquisition frequency: 2 mn
	• Measurement accuracy: +/-2% • Unit: °F or °C • Calibration of acquisition chain
Low level detection	• Detection by PT100-type temperature probe • Measurement accuracy: +/-2%
	• Modular support for each range
Tilt detection	• Detection by an on-board accelerometer
Alert management	• Visual alert (LED + Display) • Can be reported by dry contact
	• High temperature alert (can be modified) • Temperature probe fault alert (-200 to +55°C)
	• Low level alert • Low level probe fault alert (-200 to +55°C)
	• Battery autonomy alert 20% • Battery life alert
	• Full memory alert 10% • Calibration alert (if recall enabled)
	• Chamber overheating alert (T° increase > 10°C between 2 measurements)
Data logging	• Measurements and alerts saved in a .csv format backup file or .PDF report
	• 1-year storage capacity
	• Start & Stop recording mode (Stationary use) or programmable (transport mode)
	• File write-protected by upload software
Power supply	• NiMH rechargeable battery
	• Battery autonomy: 43 days off - 9 days when measuring
	• Battery life (1000 charge cycles) • USB C power supply
Display	• OLED backlit monochrome display • 180° display rotation
	• Available languages: FR, EN, DE, IT, ES, PT, NL, PL
Operating software	• Configuration menu • View saved configuration menu
	• Menu for downloading data • Menu for consulting backups.
	• Menu for viewing recorded data in the form of a temperature curve (If an acquisition is in progress, this menu also displays the temperature curve in real time)
	• Calibration and access management menu



100% MANUFACTURED
IN FRANCE





Simplify your daily routine
Secure your samples
SERENY-T° BOX watches over



On-board intelligence

Much more than just an automated device, the SERENY-T° BOX observes its environment and adapts its behaviour. It learns to anticipate better and stays at the cutting edge thanks to software that is updated and enhanced over time.

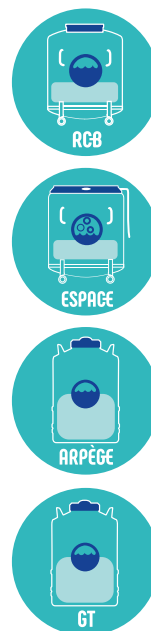
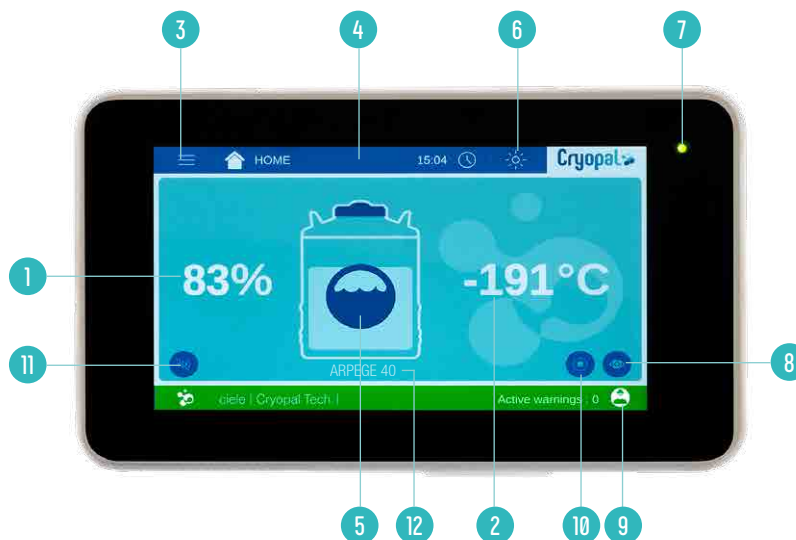
- > **Adaptive learning system**
- > **Anomaly anticipation**
- > **Continuous cycle analysis**
- > **Self-test for continuous hardware monitoring**
- > **Future mobile connectivity**



Choosing the intelligent **SERENY-T BOX**, solution means choosing technology that **MONITORS, LEARNS**, and **ADPATS** to its environment to guarantee :

- > **Reduced management**, more time to focus on your business.
- > **Seamless protection** for your samples.
- > **Easy to use**, designed with you in mind.
- > **Certified reliability** over time.

- 1 Nitrogen level [%]
- 2 Temperature °C or °F
- 3 Parameters and information
- 4 Picto containers [*]
- 5 Picto liquid or gas [**]
- 6 Contrast screen
- 7 System status
- 8 Auto-defog
- 9 Active alarm
- 10 Filling top-up
- 11 Alarm temporary mute
- 12 Container name



Features

Sample security

- Continuous monitoring thanks to the capacitive gauge and measurement redundancy with two standard probes (PT100 type)
- Temperature regulation by exceeding a temperature threshold
- Level regulation by crossing a level threshold
- Cryopal solenoid valve 24 V AC 50 Hz
- Automatic degassing at the container inlet limits the risk of drying out during level control.
- During filling, an anti-dry and anti-overflow safety device stops instantly in the event of a risk: overflow, level too low or contact with samples.

User serenity

- Moderate alarms remain silent and only sound at the times you have selected.
- Programmable filling according to your habits: choose the day, time and frequency
- All interventions are recorded in the integrated maintenance log.
- Continuous self-testing to prevent faults before they impact your business.

Ease of use

- 7-inch touchscreen providing one-touch access to essential functions
- A perfectly clear view of your samples thanks to semi-automatic gas sky brightening

Languages

FR, EN, DE, IT, ES, PT, NL, PL

Guarantees

6 years on the void | 2 years mechanical and electronic

Conformity

Medical device compliant with Regulation [EU] 2017/745 Class 1



The SERENY-T° BOX: the new generation Cryopal assistant, designed for today's and tomorrow's needs.

LINE	DESIGNATION PRODUCT	REFERENCE
GT	NATAL40 NT + SERENY-T BOX + 10 stainless steel canisters 2 levels	NATAL40SB-1
ARPEGE	ARPEGE40 Liquid - SERENY-T BOX	ARPEGE40SB-L-2
	ARPEGE70 Liquid - SERENY-T BOX	ARPEGE70SB-L-2
	ARPEGE70 Liquid - SERENY-T BOX - Regulation - Degassing kit	ARPEGE70SB-L-3
	ARPEGE70 Gas - SERENY-T BOX - Regulation - Degassing kit	ARPEGE70SB-G-3
	ARPEGE110 Liquid - SERENY-T BOX	ARPEGE110SB-L-2
	ARPEGE110 Liquid - SERENY-T BOX - Regulation - Degassing kit	ARPEGE110SB-L-3
	ARPEGE110 Gas - SERENY-T BOX - Regulation - Degassing kit	ARPEGE110SB-G-3
	ARPEGE140 Liquid - SERENY-T BOX	ARPEGE140SB-L-2
	ARPEGE140 Liquid - SERENY-T BOX - Regulation - Degassing kit	ARPEGE140SB-L-3
	ARPEGE140 Gas - SERENY-T BOX - Regulation - Degassing kit	ARPEGE140SB-G-3
	ARPEGE170 Liquid - SERENY-T BOX	ARPEGE170SB-L-2
	ARPEGE170 Liquid - SERENY-T BOX - Regulation - Degassing kit	ARPEGE170SB-L-3
	ARPEGE170 Gas - SERENY-T BOX - Regulation - Degassing kit	ARPEGE170SB-G-3
	ARPEGE55 Liquid - SERENY-T BOX	ARPEGE55SB-L-2
	ARPEGE55 Liquid - SERENY-T BOX - Regulation - Degassing kit	ARPEGE55SB-L-3
	ARPEGE75 Liquid - SERENY-T BOX	ARPEGE75SB-L-2
	ARPEGE75 Liquid - SERENY-T BOX - Regulation - Degassing kit	ARPEGE75SB-L-3
ESPACE	ESPACE151 Liquid - SERENY-T BOX - Regulation - Degassing kit	ESP151SB-LC-2
	ESPACE151 Gas - SERENY-T BOX - Regulation - Degassing kit	ESP151SB-GC-2
	ESPACE331 (Liq - with Casing) - SERENY-T BOX - Regulation - Degassing kit	ESP331SB-LC-3
	ESPACE331 (Liq - with Casing) - Rotating tray - SERENY-T BOX - Regulation - Degassing kit	ESP331SB-LC-4
	ESPACE331 (Gas - with Casing) - SERENY-T BOX - Regulation - Degassing kit	ESP331SB-GC-3
	ESPACE331 (Gas - with Casing) - Rotating tray - SERENY-T BOX - Regulation - Degassing kit	ESP331SB-GC-4
	ESPACE331 (Liq - without Casing) - SERENY-T BOX - Regulation - Degassing kit	ESP331SB-LNC-3
	ESPACE331 (Liq - without Casing) - Rotating tray - SERENY-T BOX - Regulation - Degassing kit	ESP331SB-LNC-4
	ESPACE331 (Gas - without Casing) - SERENY-T BOX - Regulation - Degassing kit	ESP331SB-GNC-3
	ESPACE331 (Gas - without Casing) - Rotating tray - SERENY-T BOX - Regulation - Degassing kit	ESP331SB-GNC-4
	ESPACE661 (Liq - without Casing) - Rotating tray - SERENY-T BOX - Regulation - Degassing kit	ESP661SB-LNC-2
	ESPACE661 (Gas - without Casing) + Rotating tray - SERENY-T BOX - Regulation - Degassing kit	ESP661SB-GNC-2
RCB	RCB500 Liquid - Rotating tray - Compensated cap - SERENY-T BOX - Regulation - Degassing kit	RCB500SB-L-3
	RCB600 Liquid - Rotating tray - Compensated cap - SERENY-T BOX - Regulation - Degassing kit	RCB600SB-L-3
	RCB600 Gas - Rotating tray - Compensated cap - SERENY-T BOX - Regulation - Degassing kit	RCB600SB-G-3
	RCB1001 Liquide - Rotating tray - Compensated cap - SERENY-T BOX - Regulation - Degassing kit	RCB1001SB-L-3
	RCB1001 Gas - Rotating tray - Compensated cap - SERENY-T BOX - Regulation - Degassing kit	RCB1001SB-G-3
	RCB2000 Liquide - Rotating tray - Compensated cap - SERENY-T BOX - Regulation - Degassing kit	RCB2000SB-L-2
	RCB2000 Gas - Rotating tray - Compensated cap - SERENY-T BOX - Regulation - Degassing kit	RCB2000SB-G-2

Gamme

2
5
12
+

VOYAGEUR

About Voyageur

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Your needs

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Transport containers for biological samples
in bags, straws and cryo-tubes.

VOYAGEUR

2
5
12
+



Key benefits

- > Samples transported in dry phase: liquid nitrogen is captured in micro-droplets in a porous material; the samples are placed in nitrogen gas.
- > Lightweight and strong thanks to their aluminium design
- > Compliant with IATA, ADR and RID regulations for air, road and rail transport
- > Various layout solutions (canisters and racks)
- > 6 years vacuum warranty



VOYAGEUR range can be
locked using seals or
padlocks (not supplied),
except for the **VOYAGEUR 2**



Sereny-T°
LOGGER
traceability solution for simple,
high-performance
temperature recording



Protective overwrap
available as an option



Click here  to see all the **accessories**

The containers in the VOYAGEUR range are Class IIa medical devices - GMDN Code 16534.



Yours needs

Choose the size of your container according to your storage requirements.



VOYAGEUR 2

VOYAGEUR 5

VOYAGEUR 12

VOYAGEUR +

STRAWS

Standard goblets
[in canisters]

"Daisy goblets"
[in canisters]⁽¹⁾

0,25 ml

220

800

3 280

9 840

0,5 ml

100

376

1 460

4 380

CBS 0,3-0,5 ml

70

300

900

2 700

0,25 ml

-

-

2 160

6 480

0,5 ml

-

-

960

1 880

CBS 0,3-0,5 ml

-

-

672

2 016

VIALS

On
vial-holder rods
in 2-level canister

Box
in rack

1,2 - 2 ml

-

84

240

612

5 ml

-

42

120

306

1,2 - 2 ml ⁽²⁾

-

-

-

500

5 ml ⁽³⁾

-

-

-

162

BAGS

with / without holster

Dans rack :
with ⁽⁴⁾ / without
holster in rack

25ml

-

-

-

42 / -

50ml

-

-

-

- / 12

200-250ml

-

-

-

- / 6

500ml

-

-

-

- / 6

700ml

-

-

-

- / 6

750ml

-

-

-

- / 6

(1) "Daisy" goblets with a lid are available in 6 colors (white, red, green, blue, purple, and yellow).

(2) Boxes with 100 2-ml cryo-vials.

(3) Boxes with 81 5-ml cryo-vials.

(4) With Thermogenesis, Biosafe, or PALL bags.



Inventory systems

VOYAGEUR

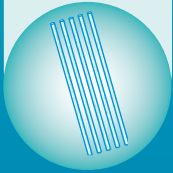
2

5 · 12

+

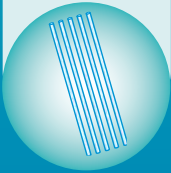
Straws

0,25
5ml
CBS



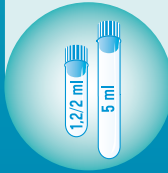
Straws

0,25
5ml
CBS



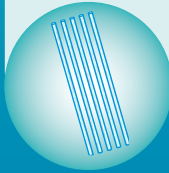
Cryo-vials

1,2
2
5ml



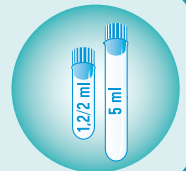
Straws

0,25
5ml
CBS



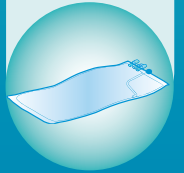
Cryo-vials

1,2
2
5ml



Bags

25 / 1000ml

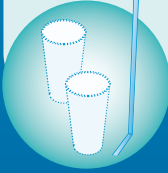


Goblets

VOYAGEUR 5 : ø 35 mm
VOYAGEUR 12 : ø 65 mm

Lifter

used to remove the 2
goblets from the 2-level
canister



Metalic holder

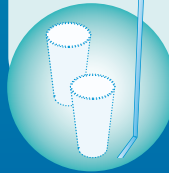
Vials 1,2 / 2ml :
x 6 vials
Tube 5ml :
x3 vials



Goblets

ø 65 mm

Lifter



Boxes
25,81 ou
100 vials

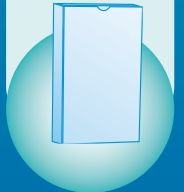


Metalic holder

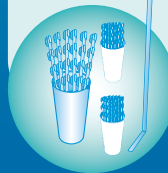
1,2-2 ml :
x6 tube
5 ml :
x3 vials



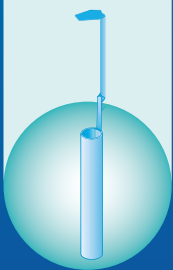
Holster



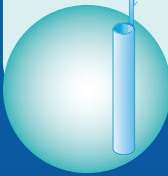
Goblets D65mm lifter



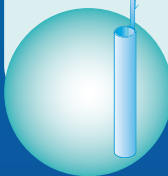
1 level
**Polycarbonate
canister**



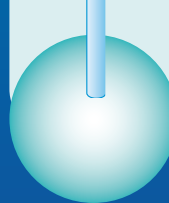
**Stainless
steel
canister**



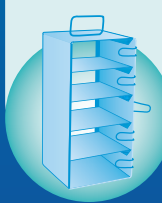
**Stainless
steel
canister**



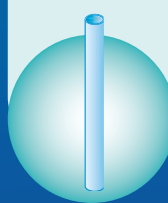
**Polycarbonate
canister**



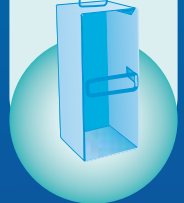
Rack



**Polycarbonate
canister**



Rack



Our solutions



Technical characteristics

	VOYAGEUR 2	VOYAGEUR 5	VOYAGEUR 12	VOYAGEUR +
Useful capacity - L	1,75	6,5	15	20,6
Liquid nitrogen absorption capacity - L	1,36	4,8	10,43	7,27
Weight empty without equipment - kg	2,4	7,5	12,2	14,2
Weight full without equipment - kg	3,5	11,3	20,4	20
Neck diameter - mm	30	50	80	215
Outside diameter - mm	174	248	308	356
Total height - mm	395	550	576	575
Static autonomy ⁽¹⁾ - d	17	37	44	10
Theoretical daily evaporation ⁽¹⁾ - L/d	0,08	0,12	0,23	0,66

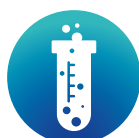
Inventory system

Number of canisters	2	2	2	6 ⁽²⁾
Diameter of canisters - mm	26	41	71	71
Height of canisters - mm	120	280	280	280
Number of level(s) of canisters	1	2	2	2

Applications



**Temperature
controlled
logistics**



**Cell
therapy**



Biobanking



IVF



Laboratory

⁽¹⁾Holding tests are performed under the conditions of the ISO 21014 standard extrapolated to the volumes evaluated according to the theoretical models. Daily evaporation and holding times are at 20°C, 1,013 mb, with a stationary container and a closed lid. These values are nominal and may vary based on the history of the container and manufacturing tolerances.
⁽²⁾Not included in VOYAGEUR +

Accessories

Line VOYAGEUR



VOYAGEUR 2 VOYAGEUR 5 VOYAGEUR 12 VOYAGEUR +

VOYAGEUR without canister	-	-	-	VOYAGEUR20-2
VOYAGEUR incl. 2 canisters	VOYAGEUR2-1	VOYAGEUR5-2	VOYAGEUR12-2	-
Protective shipping cases	ACC-VOY-100	ACC-VOY-101	ACC-VOY-102	ACC-VOY-103
Transport bag	ACC-VOY-105	-	-	-
Set of 50 2-ml round-bottom cryo-vials with white lid	-	ACC-BOXTUBE-11	ACC-BOXTUBE-11	ACC-BOXTUBE-11
Set of 50 5-ml round-bottom cryo-vials with white lid	-	ACC-BOXTUBE-16	ACC-BOXTUBE-16	ACC-BOXTUBE-16
Set of 10 metallic vial-holder rods for 6 2-ml vials or 3 5-ml vials	-	ACC-BOXTUBE-411	ACC-BOXTUBE-411	ACC-BOXTUBE-411
Set of 20 standard Ø 35 mm goblets	-	ACC-BOXTUBE-300	-	-
Set of 20 standard Ø 65 mm goblets	-	-	ACC-BOXTUBE-301	ACC-BOXTUBE-301
Set of 5 Ø 65 mm daisy goblets with lid	-	-	ACC-BOXTUBE-302	ACC-BOXTUBE-302
Set of 10 Ø 65 mm pierced goblets with lid	-	-	ACC-BOXTUBE-415	ACC-BOXTUBE-415
Set of 10 boxes 133 x 133 x 51 mm (capacity 100 vials 1.2/2 ml)	-	-	-	ACC-BOXTUBE-104
Set of 4 boxes 133 x 133 x 95 mm (capacity 81 vials 5 ml)	-	-	-	ACC-BOXTUBE-107
Lifter for 2-stage canister	-	ACC-BOXTUBE-405	ACC-BOXTUBE-405	ACC-BOXTUBE-405
Straight canisters	ACC-PLASCAN-7	ACC-PLASCAN-10	ACC-PLASCAN-11	-
Off-centre canisters	ACC-PLASCAN-6	ACC-PLASCAN-9	ACC-PLASCAN-8	-
5-levels rack for boxes (75 x 75 x 51 mm) of 25 2 ml cryo-vials	-	-	-	ACC-RACK-7
5-levels rack for boxes (133 x 133 x 51 mm) of 100 2 ml cryo-vials	-	-	-	ACC-RACK-4
2-levels rack for boxes (133 x 133 x 95 mm) of 81 5 ml cryo-vials	-	-	-	ACC-RACK-2

Line

TR

11

21

26

35

60

100

About TR

Our solutions

Accessories

60

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Non-pressurised containers for the storage and transfer of liquid nitrogen

TR
11
21
26
35
60
100



Key benefits

- > Lightweight and strong thanks to their aluminium design
- > Design to suit your laboratory
- > Wide range: capacity from 11 to 100 L
- > Low evaporation rate
- > Static autonomy up to 180 days
- > A range of filling accessories available for different uses



Discover the TR range: high-quality, non-pressurised containers specially designed for storing and transferring liquid nitrogen. Available in capacities from 11 to 100 litres, they meet a wide range of needs, from small to large quantities.



Why choose TR fuel tanks ?

- > Optimum capacity and extended autonomy: with volumes ranging from 11 to 100 litres and autonomy of up to 180 days, the TR range guarantees maximum efficiency and low evaporation of liquid nitrogen.
- > Universal compatibility: easily fill your cryogenic containers thanks to the unique Ø 50 mm flange and various transfer modes, including the pouring handle, the tilting trolley or the DL3 manual filling system.
- > Durability and robustness: made from aluminium and composite materials, these tanks are finished with a high-quality polyurethane paint, ensuring long life even in the most demanding environments.



Our solutions



Technical characteristics

Useful capacity - l	12,2	21,5	26	33,6	60	99
Neck diameter - mm	50	50	50	50	50	50
Outside diameter - mm	308	388	388	468	468	510
Empty weight - kg	7,5	11	13,5	15,8	21,5	29,5
Filled weight - kg	17,3	28,3	34,6	43	70	110
Total height - mm	584	605	669	655	869	986
Total internal height - mm	530	535	612	580	800	933
Static autonomy ⁽¹⁾ - d	67	119	130	140	150	180
Theoretical daily evaporation - l/d	0,18	0,18	0,2	0,24	0,4	0,55

References

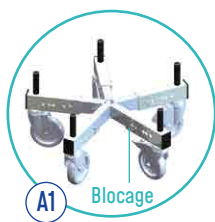
TR	TR11-1	TR21-1	TR26-1	TR35-1	TR60-1	TR100-1
----	--------	--------	--------	--------	--------	---------

⁽¹⁾ Holding tests are performed under the conditions of the ISO 21014 standard extrapolated to the volumes evaluated according to the theoretical models. Daily evaporation and holding times are at 20°C, 1,013 mb, with a stationary container and a closed lid. These values are nominal and may vary based on the history of the container and manufacturing tolerances.

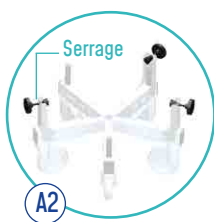
Accessories



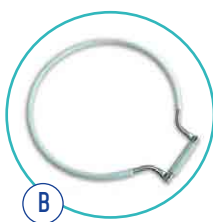
A1	Roller base	-	ACC-ALU-29	ACC-ALU-29	ACC-ALU-29	ACC-ALU-29	ACC-ALU-40
A2	Container clamping kit	-	ACC-ALU-32	ACC-ALU-32	ACC-ALU-32	ACC-ALU-32	-
B	Tipping handle	ACC-TR-15	ACC-TR-16	ACC-TR-16	-	-	-
C	Tipping stand	-	-	-	-	-	-
D	DL3 withdrawal device	ACC-TR-5	ACC-TR-5	ACC-TR-5	ACC-TR-5	ACC-TR-5	ACC-TR-5
E	DL3 withdrawal device with Anti splash	ACC-TR-28	ACC-TR-28	ACC-TR-28	ACC-TR-28	ACC-TR-28	ACC-TR-28
F	Simplified liquid nitrogen filling system (foot pump)	ACC-TR-1	ACC-TR-1	ACC-TR-1	ACC-TR-1	-	-
Flexible hose with transfer rod (DN10)		G + H1 ou G + H2					
G	Flexible hose with transfer rod (DN10) to be connected to DL3	1,1 m	ACC-FL180180NL-11				
		1,5 m	ACC-FL180180NL-15				
		2 m	ACC-FL180180NL-20				
H1	Transfer rod with anti-splash nozzle	ACC-FLTC-2	ACC-FLTC-2	ACC-FLTC-2	ACC-FLTC-2	ACC-FLTC-2	ACC-FLTC-2
H2	Transfer rod without anti-splash nozzle	ACC-FLTC-1	ACC-FLTC-1	ACC-FLTC-1	ACC-FLTC-1	ACC-FLTC-1	ACC-FLTC-1



Roller base



Container clamping kit



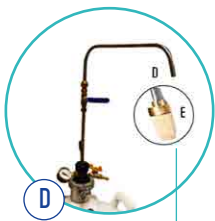
Tipping handle



Tipping stand



Tipping handle



DL3 withdrawal device



Simplified liquid
nitrogen filling system
(foot pump)



Flexible hose with transfer rod (DN10) to be connected to DL3



Transfer rod with
anti-splash nozzle



Transfer rod without
anti-splash nozzle

(1) *Klinkepreisgliederung*

Gamme

TP

35
60
100

About TP

Our solutions

Accessories

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65

66



Self-pressurized containers (0.5 bar) for the storage and transfer of liquid nitrogen.

TP

35
60
100



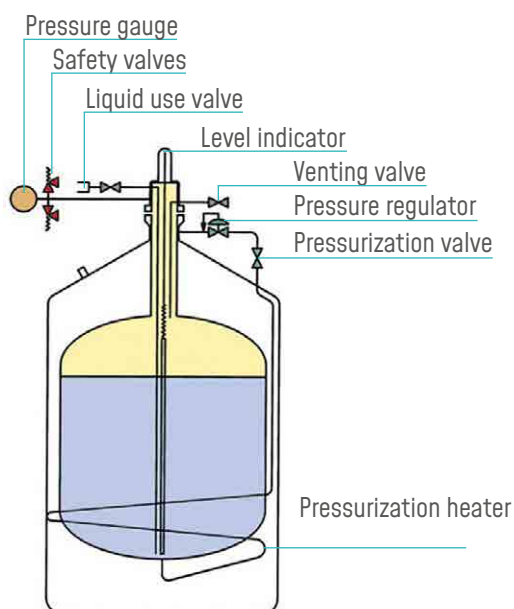
Key benefits

- > Lightweight and strong thanks to their aluminium design
- > Design to suit your laboratory
- > Wide range: capacity from 35 to 100 L
- > Low evaporation rate
- > Static autonomy up to 75 days
- > Possibility of filling different cryogenic containers



Main components

Control head

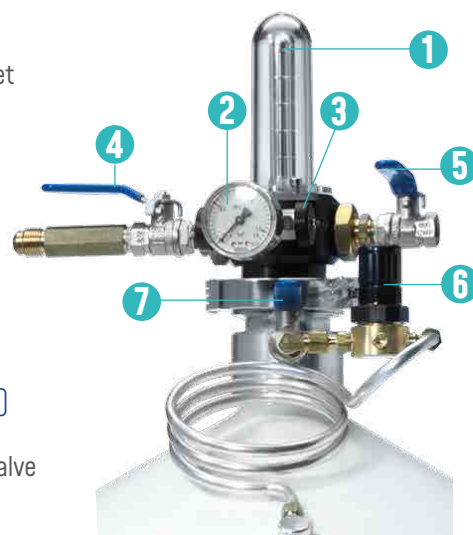


Removable control head

- 1 Float level indicator
- 2 Pressure gauge
- 3 Two safety valves set at 0.5 bar
- 4 Dispensing valve
- 5 Venting valve

Self-pressurizing system (supplied as standard)

- 6 Pressure regulator valve
- 7 Pressurizing valve



Simple and easy to use

- > Nitrogen available by simply opening the dispensing valve
- > The TP35 can be placed under a laboratory bench
- > An additional handrail can be installed to protect the control head and make it easier to move the TP



Our solutions



TP35

TP60

TP100

Technical characteristics

Useful capacity - L	35	60	98
Neck diameter - mm	50	50	50
Outside diameter - mm	468	468	510
Empty weight (with control head) - kg	19,8	26,4	33,5
Fully loaded weight (with control head) - kg	48	74,5	113,5
Total height (with control head) - mm	853	1 080	1 213
Total interior height - mm	580	815	945
Static holding time (1) - d	35	60	75
Daily evaporation (with control head)(1) - L/d	1	1	1,3
Maximum standard operating pressure - bar	0,5	0,5	0,5
Maximum flow (P = 0.5 bar)(2) - L/min	2,4	3,5	5,2

References

TP with control head and pressure regulator	TP35-1	TP60-1	TP100-1
TP without head (pressure regulation included)	TP35-2	TP60-2	TP100-2

(1) Holding tests are performed under the conditions of the ISO 21014 standard extrapolated to the volumes evaluated according to the theoretical models. Daily evaporation and holding times are at 20°C, 1,013 mb, with a stationary container and a closed lid. These values are nominal and may vary based on the history of the container and manufacturing tolerances.
 (2) Indicative value may vary significantly depending on the duration of the transfer.



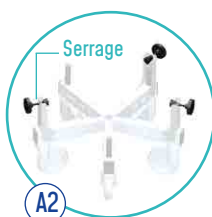
Accessories



		TP35	TP60	TP100
A1	Roller base (height: 220 mm)	ACC-ALU-29	ACC-ALU-29	ACC-ALU-40 ⁽¹⁾
A2	Container clamping kit for roller base (optional)	ACC-ALU-32	ACC-ALU-32	-
B	Handrail	ACC-ALU-21	ACC-ALU-21	ACC-ALU-21
C	Double dispensing system	ACC-TP-21	ACC-TP-21	ACC-TP-21
D	Dispensing elbow with anti-splash protector for TP	ACC-TP-17	ACC-TP-17	ACC-TP-17
E	Flexible transfer tube (DN10)	1,1 m	ACC-FL180180NL-11	
		1,5 m	ACC-FL180180NL-15	
		2 m	ACC-FL180180NL-20	
Flexible tube with transfer rod (DN10)		E + F1 ou E + F2		
F1	Transfer rod with anti-splash nozzle	ACC-FLTC-2	ACC-FLTC-2	ACC-FLTC-2
F2	Transfer rod without anti-splash nozzle	ACC-FLTC-1	ACC-FLTC-1	ACC-FLTC-1



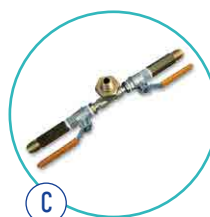
A1 Blocage
Roller base



A2 Serrage
Container clamping kit



B Handrail



C Double dispensing system



D Dispensing elbow with anti-splash protector for TP



E Flexible transfer tube (DN10) 1.5 m



F1 Transfer rod with anti-splash nozzle



F2 Transfer rod without anti-splash nozzle

Flexible de transfert avec canne



⁽¹⁾ Clamping kit included

Gamme

Dermato

GT9D

GT11D

GT21D

CryalJET

About GT Dermato

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About CryalJET

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Our solutions

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Accessories

70



Liquid nitrogen storage containers for cryotherapy in dermatology

GT
9D
11D
21D



Key benefits

- > Lightweight and strong thanks to their aluminium design
- > Design to suit your laboratory
- > Capacity from 9 to 21 L
- > Low evaporation rate
- > Static autonomy up to 216 days



Cryotherapy in dermatology

When used in dermatology, cryotherapy with liquid nitrogen aims at burning skin lesions. The intensity of the cold delivered by freezing is thus controlled and limited to the lesion itself.

Cryotherapy is considered as one of the main treatments, being simple and fast, in case of isolated superficial lesions.

How does it work?

A progressive cooling of human tissues allows their conservation. However, a very fast freezing followed by a slow warming causes their destruction. The principle of cryo-treatments is to apply a source of cold on the lesions to be destroyed by inducing a real «thermal shock». Such sudden lowering of temperature causes a crystallization of the intracellular water, causing the destruction of the membrane and other cellular structures, leading to the death of the cell. The progressive warming of the tissue further reinforces this process of cellular destruction.

Source: French Society of Dermatology



The **GT9 - 11 - 21 Dermato** include two stainless steel canisters (ladles) measuring 25 and 50 mm, allowing a small quantity of liquid nitrogen to be collected. A fastening system allows the canister to be attached to the flange of the container, leaving both hands free to soak the cotton wool pads in complete safety.





Key benefits

- > Spray bottle with a capacity of 0.35 and 0.5 litres.
- > Instant spray of liquid nitrogen for the treatment of skin lesions.
- > Lightweight, easy to handle, durable and robust thanks to their stainless steel design



Specially designed for dermatological cryotherapy treatments, the CryalJet delivers an immediate jet of nitrogen while avoiding the risk of viral contamination.



The CryalJet complies with Regulation (EU) 2017/745 on medical devices.

Complete set of spray nozzles included for treating the most common skin lesions without any contact with the skin.



Spray nozzles included with the CryalJet



Contact probes on request

Our solutions



Technical characteristics

	GT9D	GT11D	GT21D	CryaJET _{mini}	CryaJET _{maxi}
Reference	GT9-DERMATO-1	GT11-DERMATO-1	GT21-DERMATO-1	CRYALJET35-1	CRYALJET50-1
Useful capacity - L	9,51	12,4	21,6	0,35	0,5
Outside diameter - mm	358	308	388	68,5	68,5
Full weight - kg	15,7	19	30,4	0,805	0,942
Total height - mm	450	680	660	235	285
Static holding time - d	79	137	216	12-14 H	20-24 H

[1] Average liquid nitrogen evaporation rates are measured in accordance with ISO 21014. These measurements are taken without accessories (canisters, electronic monitoring, temperature sensor, etc.), at constant atmospheric pressure and at a constant temperature of 15°C. These evaporation rates are indicative and may vary depending on conditions of use.

Accessories

	GT9-DERMATO-1	GT11-DERMATO-1	GT21-DERMATO-1	CRYALJET35-1	CRYALJET50-1
Withdrawal device for Dermatological vessels	ACC-DERMATO-1			-	-
Foot actuated pressurizing withdrawal device	ACC-TR-1			-	-
Set of 6 rubber cones	-	-	-	ACC-CRYALJET-3	
Gloves (Size 8)	ACC-SECU-15				
Gloves (Size 9)	ACC-SECU-16				
Gloves (Size 10)	ACC-SECU-17				
Gloves (Size 11)	ACC-SECU-18				
Protective goggles	ACC-SECU-2				
Personal o2 detector BW Clip	ACC-SECU-26				



Super insulated vacuum lines

SVL

About SVL

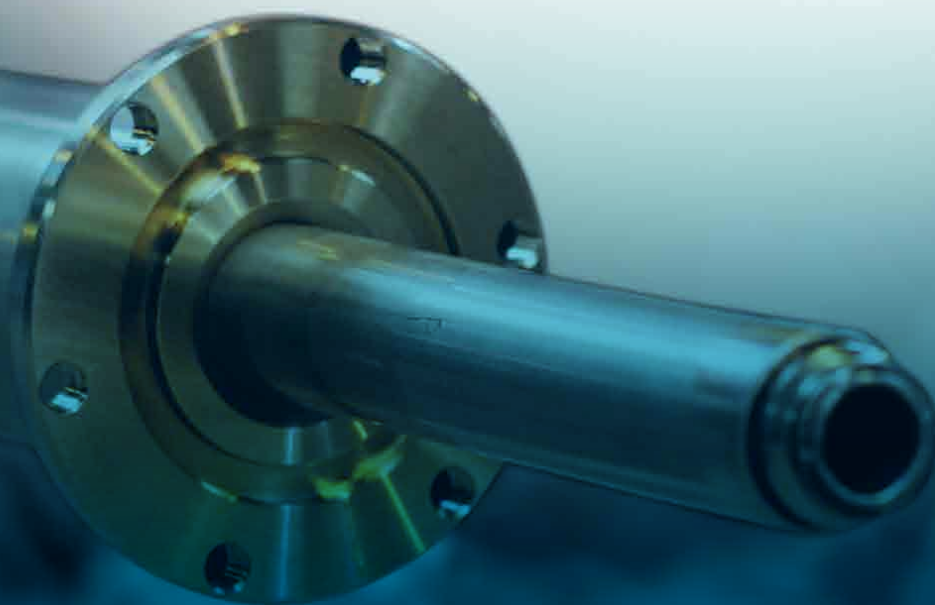
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Our solutions

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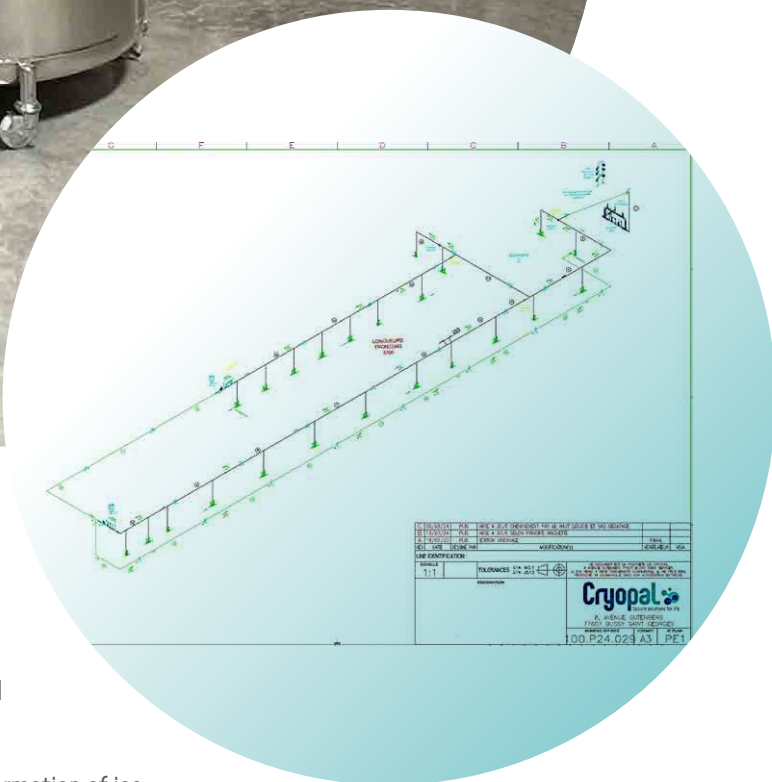
Accessories

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Optimise your cryogenic fluid transfers (Nitrogen, Oxygen, Argon, Co2) with rigid or flexible super-insulated vacuum lines

Our vacuum lines are designed to meet your most specific requirements. The rigour we apply to the design, manufacture and control of each of our lines guarantees the level of performance and reliability which we are renowned.



Choosing Cryopal adds real value to your installation:

- **Exceptional thermal insulation:** Reduce heat loss considerably thanks to advanced high-vacuum and super-insulation technology.
 - **Safety and reliability:** Our vacuum lines limit the formation of ice and guarantee optimum distribution of cryogenic fluids.
 - **Customized solution :** Each line is specially designed to meet your needs and constraints.
 - **Durability and low maintenance:** Designed for maximum longevity, our vacuum lines require little maintenance, maximising your return on investment.

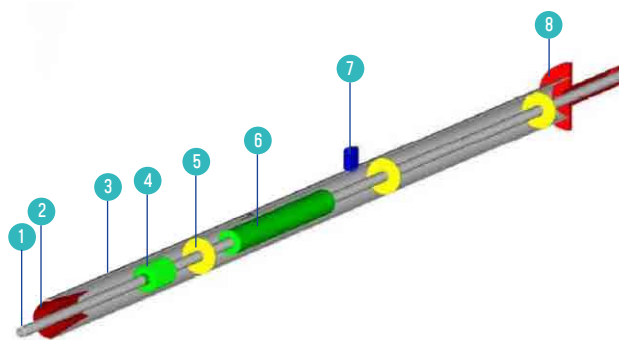
Our solutions

We offer a very wide range of technical solutions:

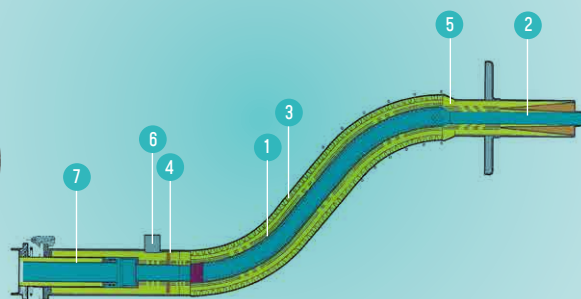
- Lines for argon, nitrogen and oxygen
- Connections using thermal barriers or johnston-type male-female couplings

> Customised rigid vacuum lines (DN10 to DN150)

- 1 Inner tube
- 2 Thermal barrier
- 3 Outer tube
- 4 Compensator
- 5 Centering device
- 6 Adsorbent box
- 7 Pumping valve
- 8 Johnston male connection



> Flexible vacuum lines (DN10 to DN50) customised to your needs



- 1 Inner hose
- 2 Thermal barrier
- 3 External hose
- 4 Centring device
- 5 Adsorbent sock
- 6 Pumping valve
- 7 Johnston male connection

> Vacuum-insulated flexible hoses (DN8) standards for liquid nitrogen



Connect your containers or applications to a vacuum line while avoiding the formation of frost, condensation and water puddles during tank filling. For other lengths, please contact us.

Accessories

Choose performance with Cryopal!
Contact us today to find the solution best suited to your needs.



Distribution block



Distribution block with valve
and lockout



Safety by-pass



By-pass solenoid valve



Degassing system



Degassing control box

SAFETY

accessories

Identify risks

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Burns caused by
splashes or contact

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Identify risks

Handling cryogenic fluids, and in particular liquid nitrogen (-196°C), requires compliance with strict rules. These are intended to prevent two essential risks: anoxia and burning by contact or projection.

> Anoxia

Oxygen is essential to maintain life. It is vital to ensure that it exists in adequate proportions in the atmosphere one breathes. In particular anoxia, caused by under oxygenation, has real risks.



The body's reaction to atmospheric hypoxia varies greatly from one individual to another. Furthermore, our senses are unable to detect it, so victims are generally unaware of the danger they are in and may even feel a sense of well-being.

> Cause of anoxia: a lack of oxygen in the air

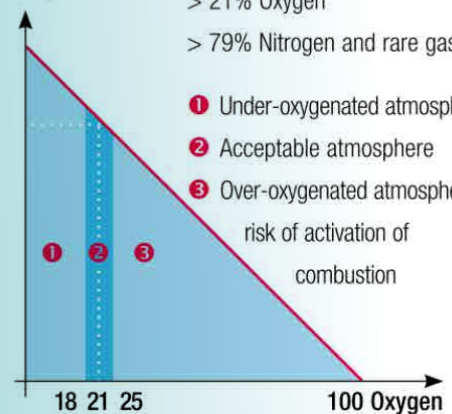
The air that we breathe is made up of 21% oxygen, 79% nitrogen and rare gases.

At atmospheric pressure, liquid nitrogen vaporizes above -196°C .

This increases the level of nitrogen in the air, particularly in a cryogenic room, and with certain handling related to products stored or the use of containers. In fact, this handling causes vaporization of liquid nitrogen.

At atmospheric pressure, 1 litre of liquid nitrogen heated up to ambient temperature generates 691 litres of gas.

Nitrogen & Rare gases



> Preventing anoxia: a few precautions

A small amount of liquid can cause a large amount of gas to form. As a result, liquid leaks can quickly cause oxygen depletion in enclosed spaces. It is therefore necessary to evacuate liquid and cold gases properly: do not release them in any place where their accumulation could be dangerous, ventilate storage and use areas.

Note: if the room is not sufficiently ventilated, respiratory equipment must be used.

Identify risks

> Anoxemia: How to protect yourself ?

The room in which cryogenic containers are stored must be adequately ventilated.
The oxygen content must be monitored continuously.
Any significant decrease must trigger an alarm that can be heard inside and outside the room.
The oxygen meter is a safety device designed for the individual and continuous protection of users. It allows each person to effectively monitor the risk of oxygen deprivation.
A preset audible alarm instantly signals dangerous situations.



> Burns caused by splashes or contact

When handling samples and, more generally, when working with liquid nitrogen, it is important to protect yourself from the risk of splashes. These cause cryogenic burns that can have serious consequences, particularly when they affect the eyes or face.

Before handling liquid nitrogen, in addition to wearing suitable gloves, it is necessary to wear safety glasses or a protective visor. Corrective eyeglasses do not provide adequate protection.

Before handling, in addition to wearing suitable gloves, it is necessary to wear safety glasses or a protective visor .

Wearing corrective glasses does not provide protection.

For foot protection, closed shoes are recommended.



Low temperature warning	Refer to the instructions in the manual.	Gloves must be worn	Wearing glasses or a visor is mandatory.	Ventilate the room continuously	Do not touch parts that have been in contact with nitrogen.

Personal protective equipment (PPE)



Cryogenic gloves

Size 8 : Ref. ACC-SECU-15 – Size 9 : Ref. ACC-SECU-16
Size 10 : Ref. ACC-SECU-17 – Size 11 : Ref. ACC-SECU-18



Safety glasses

Ref : ACC-SECU-2



Protective visor

Ref : ACC-SECU-2



Personal Oxygen Detector

Ref : ACC-SECU-26



Gaiters (one size fits all)

Ref : ACC-SECU-30



Apron (one size fits all)

Ref : ACC-SECU-19

Applications



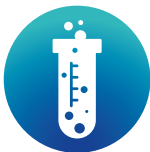
Biobanking

Biobanking : Biobanks, also known as biological resource centers (BRCs), collect, store and organize biological samples (cells, tissues, urine, genes, DNA, RNA, viruses, bacteria, etc.) and clinical, genealogical and lifestyle data.



R&D

R&D : Cryopreservation is an essential process in research and development (R&D). It enables cells, tissues, vaccines or chemical elements to be preserved in liquid nitrogen for very long periods.



Cell therapy

Cell therapy : Cryopreservation is a key element in the field of cell therapy. Cell and gene therapies promise to transform the treatment of a wide range of diseases, including cancer, genetic and degenerative disorders, and serious injuries.



IVF

Medically Assisted Reproduction (MAP) is a set of medical techniques designed to help infertile couples conceive a child.

In vitro fertilization (IVF): Fertilizing an egg in the laboratory, then transferring the resulting embryo into the woman's uterus.

Artificial insemination : Introducing sperm into a woman's uterus. Used when the male partner has fertility problems.

Embryo cryopreservation : Freezing surplus embryos, storing them in liquid nitrogen for later use.



Laboratory

Laboratory : Cryopreservation is a technique particularly used in the laboratory to preserve cells viably at ultra-low temperatures, while preserving their integrity over time. Cryopreservation has enabled a wide range of samples to be preserved and used for different purposes : research and analysis, vaccine and drug development...



Animal health

Animal health is closely linked to human health, and understanding these interactions is essential for a safer, healthier world for all. Many vaccines for farm, companion and even wild animals are cryopreserved in liquid or gaseous nitrogen.



Animal insemination

Animal insemination is now performed on a large scale on a wide range of animal species, including cattle, goats, pigs, sheep and horses.

This method of reproduction offers a number of significant advantages for breeders and for the genetic improvement of herds.

It enables rapid genetic improvement, controls disease transmission, optimizes reproduction, saves time and space, and is safer for the breeder.



Temperature controlled logistics

The quality, control and traceability of biological sample storage in liquid or gaseous nitrogen are essential, but so is their transport.

New regulations on transport have made the use of dry shippers and special transports a necessity.

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