COLDSTASH

Cryogenic Storage
Dewars
Shippers

COLDSTASH

# FLEXSTASH™

FlexStash -80°C Storage System

FlexStash is the all-in-one solution for labs that are using -80°C freezers for storing vial boxes. Our unique MaxSecure half-rack frame securely holds your boxes in place for rapid transfer to an LN_2 freezer should the need arise. By nesting your samples in the FlexStash, you now have the convenience of transporting all of your samples in one easy, self-contained configuration. If your -80°C freezer should ever malfunction and you need to back up to an LN_2 freezer, FlexStash will save you valuable time and limit specimen degeneration.

- ■ Frame fits in standard -80°C freezers.
- ■ Holds 81 or 100 count vial boxes.
- ■ Drawers slide in and out.
- ■ Half-rack frame with MaxSecure holds boxes upside down, sideways and more.
- ■ Easily lifts out as a single unit for transfer to LN_2 freezer.
- ■ Accelerates transfer time from failed -80°C freezer to LN_2 or other ULT backup.
- ■ For use in any freezer.
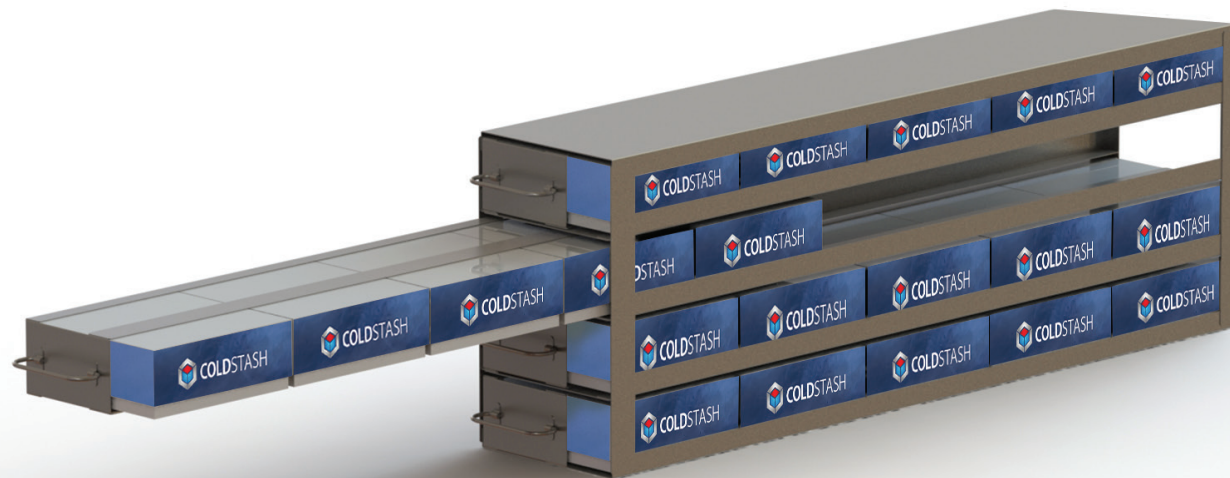
Custody of your cryogenically stored specimen is your primary concern.

Being more efficient in doing that is our concern.

ColdsSash's driving force is to create innovative new cryogenic storage and delivery solutions that maximize freezer or dewar capacities for greater efficiencies as well as improved workplace performance.

Each component in our extensive cryogenic storage product offerings gives you a unique advantage by having the ability to store as much as 5X more samples in the same space. This allows you to maximize valued freezer space for additional cryogenic storage, reduce liquid nitrogen consumption, and lower your energy costs.

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VIALSTASH™

VialStash Hinged Boxes

ColdStash VialStash storage boxes are designed with lab efficiency and convenience in mind. The hinged lid design allows you to quickly and easily store and retrieve vials at the same cost, or lower, as standard two-part box designs. Our new ColdStash Polycarbonate VialStash boxes are composed of high quality medical grade polycarbonate to secure safe storage applications down to -196C.

- ■ Hinged lid is easy to open in any climate conditions.

- ■ Available in 81 or 100 grid configuration for cryogenic vials or microtubes.

- ■ Rigid grid insert for easy storage, visual identification and removal.

- ■ Durable laminated construction for repeated freezing and thawing.

- ■ Bright white box for easy labeling or customization with your branding.
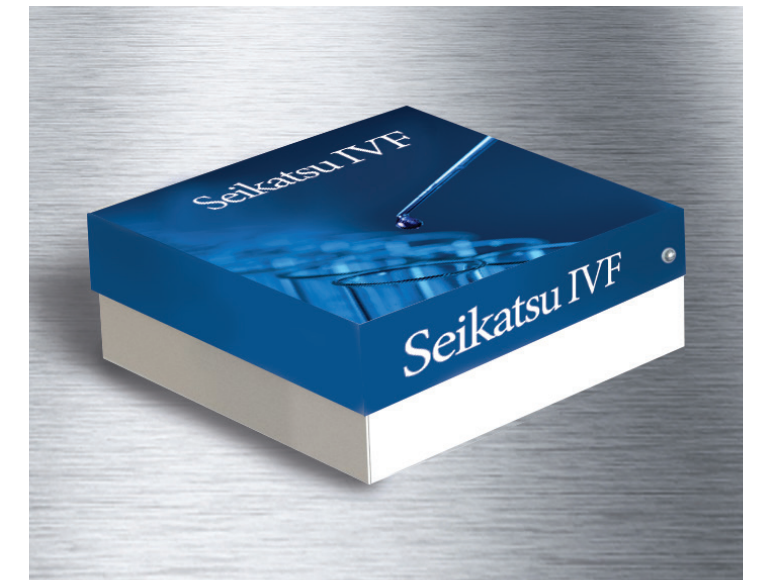
Medical Grade Polycarbonate

Hinged Paperboard
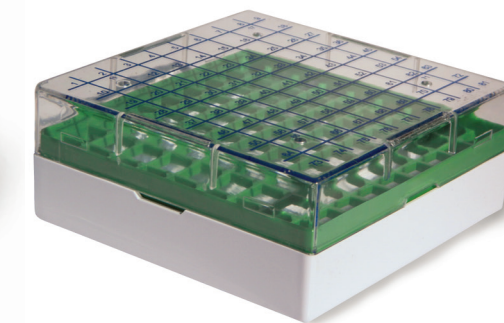
ALUMINUM ALLOY SERIES

| Model		CSDS-3H	CSDS-6H-80	CSDS-8H-80	CSDS-10H-125	CSDS-25H-216
Capacity (L)		4	6	8	10	10
Empty Weight (KG)		4.95	5.2	6.2	6.9	14.3
Neck (mm)		50	80	80	125	216
Outer Diameter (mm)		224	300	300	300	394
Height (mm)		538	481	581	546	678
Static Evaporation loss rate (L/day)		0.29	0.4	0.4	1.25	0.80
Static Holding Time (day)		14	14	18	8	13
Canister Canister Outer Dia. (mm)		38	63	63	97	•
Canister Height (mm)		120	120	120	276	•
Number of Canisters (ea)		1	1	1	1	•
Straw Capicity	0.5ml	214	820	820	1508	•
	0.25ml	472	1780	1780	3324	•
Racks and Vial Boxes Number of Racks (ea)		•	•	•	1	1
Measurement of Racks (ea)		•	•	•	82X84	142X144
Measurement of Boxes (ea)		•	•	•	76X76	134X134
Number of layers per rack (ea)		•	•	•	3	5
Number of Vials (ea)		•	•	•	75	500
25ml (multi) Number of racks (ea)		•	•	•	1	15
Number of Layers per rack (ea)		•	•	•	2	3
Number of Boxes per rack (ea)		•	•	•	3	1
Number of Blood bags (ea)		112	112	168	6	45
50ml (multi) Number of Racks (ea)		•	•	•	1	8
Number of layers per rack (ea)		•	•	•	1	3
Number of Boxes per rack (ea)		•	•	•	3	1
Number of Blood bags (ea)		•	•	•	3	24
Lockable Lid is Optional (ea)		✔	✔	✔	✔	✔
Intelligent Monitor Optional (ea)		✔	✔	✔	✔	✔

VitroStash™

DOUBLE YOUR IVF STORAGE SPACE WITHOUT CHANGING ANYTHING IN YOUR LAB.

If you are currently using the standard 47/11 dewar for storage, ColdStash has developed a revolutionary system to easily double your storage capacities. There is no need to change anything in your lab and yet you can increase your storage from 192 patients to 384. It's that simple.

Labs worldwide are faced with storage space limitations. VitroStash is the amazingly simple, cost-effective storage enhancement solution.

■ A dewar retrofit with VitroStash will cost about half of a new dewar.

■ VitroStash increases current storage capacities by 2X.

■ No need to change current lab configurations.

■ Enhanced grid configuration allows for simple, ergonomic storage.

■ Fewer dewars further reduces energy and LN$_2$ costs.

■ CSD-47/127 for complete VitroStash System.

DEVELOPED IN CONJUNCTION WITH

BOSTON IVF

INCREASE DEWAR CAPACITY TO
384
PATIENTS

192
+
192

384
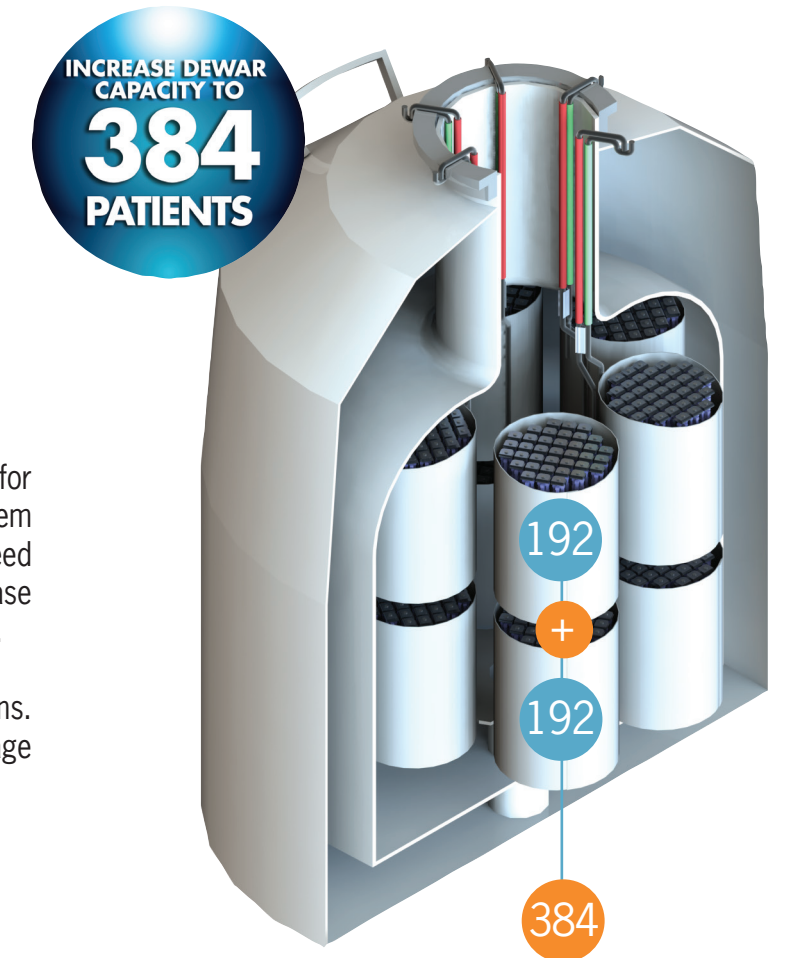
Unique "piggy-back" canister system allows for storage space to increase from 192 to 384 patients!

VitroStash™ MAX

INCREASE YOUR EXISTING IVF LAB STORAGE CAPACITY BY 5X!

VitroStash_{MAX} is a simple, low-cost solution to your labs most pressing issue.
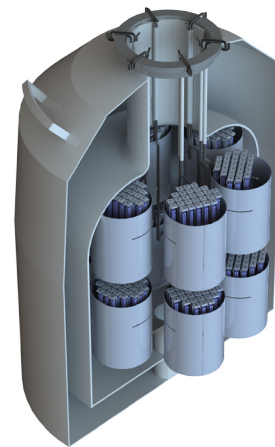
- Reduce per patient stored cost by 60%.
- 75% lower cost than large LN2 freezers.
- A simple 25% increase in dewer footprint.
- Less LN_2 usage and reduced energy cost.
- Fewer alarms.

INCREASE DEWAR CAPACITY TO
960
PATIENTS

Conventional 47-11 Dewar
with standard 11" canisters
192
Patients Stored

Conventional 47-11 Dewar with VitroStash®
384
Patients Stored

NEW
VitroStash MAX Dewar
960
Patients Stored

ALUMINUM ALLOY SERIES

Dry Shipper

Handle
Plug
Aluminum alloy outer shell
Neck tube
Aluminum alloy inner vessel
Canister

PRODUCT STANDARD
- GB/T 5458-2012

PRODUCT QUALIFICATION
- CE certificate
- Conforms to MDD 93/42/EEC Medical Device Directive for the EU

PRODUCT FEATURES
- Made of high-strength aluminum alloy
- Advanced powder coat finish for increased durability
- A locked-lid switch for safety of preserved sample is optional
- Leather bag is standard for protection and ease of transport
- Service life is five years
- Temperature and Liquid Level monitor available

APPLICATION RANGE
- Mainly used for artificial insemination and biological samples delivery

WARRANTY
- Two year tank warranty and five year vacuum warranty

Model	CSD-20B	CSD-30B	CSD-30B-80	CSD-35B	CSD-35B-80	CSD-50B	CSD-50B-80
Capacity	20	31.5	31.5	35.5	35.5	50	50
Empty Weight (KG)	10.9	13	13.1	13.8	14.3	15.2	15.5
Neck (mm)	50	50	80	50	80	50	80
Outer Diameter (mm)	394	461	461	461	461	461	461
Height (mm)	656	656	656	695	698	770	766
Static Evaporation loss rate (L/day)	0.2	0.2	0.3	0.2	0.3	0.23	0.34
Static Holding Time (day)	101	159	106	179	119	213	147
Canister Outer Diameter (mm)	38	38	63	38	63	38	63
Canister Height (mm)	120/276	120/276	120/276	120/276	120/276	120/276	120/276
Number of Canisters (ea)	6	6	6	6	6	6	6
Straw Capacity (single level) 0.5ML	792	792	2244	792	2244	792	2244
Straw Capacity (single level) 0.25ML	1788	1788	5022	1788	5022	1788	5022
Straw Capacity (double level) 0.5ML	1284	1284	3624	1284	3624	1284	3624
Straw Capacity (double level) 0.25ML	2832	2832	8460	2832	8460	2932	8460
Lockable lid Optional (ea)	✔	✔	✔	✔	✔	✔	✔
Intelligent Monitor Optional (ea)	✔	✔	✔	✔	✔	✔	✔

Wide Neck Dewar

PRODUCT STANDARD
- GB/T 5458-2012

PRODUCT QUALIFICATION
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APPLICATION RANGE
- Mainly used for artificial insemination and biological samples delivery

WARRANTY
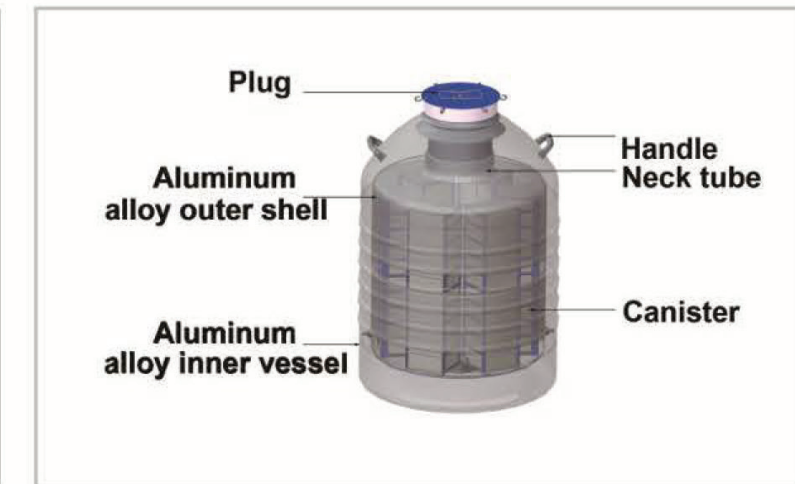- Two year tank warranty and five year vacuum warranty

Model	CSD-10-125	CSD-15-125	CSD-20-125	CSD-25-125	CSD-30-125	CSD-35-125	CSD-47-127	CSD-50B-125
Capacity	10	15	20	25	31.5	35.5	47	50
Empty Weight (KG)	5.9	8.3	10.5	12.3	12.6	13.9	15	15.5
Neck (mm)	125	125	125	125	125	125	127	125
Outer Diameter (mm)	300	394	394	394	461	461	461	461
Height (mm)	546	585	670	700	659	700	754	753
Static Evaporation loss rate (L/day)	0.42	0.36	0.37	0.37	0.35	0.37	0.45	0.45
Static Holding Time (day)	24	42	54	67	90	97	105	110
Canister Outer Diameter (mm)	•	•	•	•	97	97	97	97
Canister Height (mm)	•	•	•	•	120/276	120/276	120/276	120/276
Number of Canisters (ea)	•	•	•	•	6	6	6	6
Straw Capaciy (single level) 0.5ML	•	•	•	•	5124	5124	5124	5124
Straw Capaciy (single level) 0.25ML	•	•	•	•	11952	11952	11952	11952
Straw Capaciy (double level) 0.5ML	•	•	•	•	9048	9048	9048	9048
Straw Capaciy (double level) 0.25ML	•	•	•	•	19944	19944	19944	19944
Lockable lid Optional (ea)	✔	✔	✔	✔	✔	✔	✔	✔
Intelligent Monitor Optional (ea)	✔	✔	✔	✔	✔	✔	✔	✔

Transportation Container

PRODUCT STANDARD
- GB/T 5458-2012

PRODUCT QUALIFICATION
- CE certificate
- Conforms to MDD 93/42/EEC Medical Device Directive for the EU

PRODUCT FEATURES
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- Leather bag is standard for protection and ease of transport
- Service life is five years
- Temperature and Liquid Level monitor available

APPLICATION RANGE
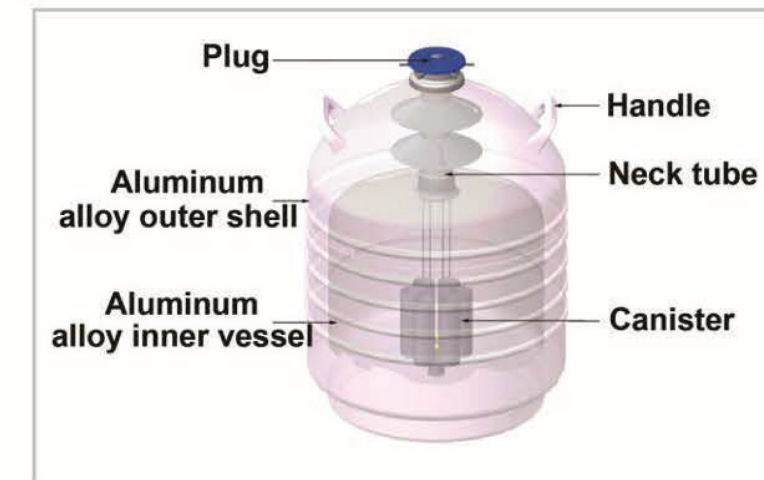- Mainly used for artificial insemination and biological samples delivery

WARRANTY
- Two year tank warranty and five year vacuum warranty

Model	CSDS-3H	CSDS-6H-80	CSDS-8H-80	CSDS-10H-125	CSDS-25H-216
Capacity (L)	4	6	8	10	10
Empty Weight (KG)	4.95	5.2	6.2	6.9	14.3
Neck (mm)	50	80	80	125	216
Outer Diameter (mm)	224	300	300	300	394
Height (mm)	538	481	581	546	678
Static Evaporation loss rate (L/day)	0.29	0.4	0.4	1.25	0.80
Static Holding Time (day)	14	14	18	8	13
Canister — Canister Outer Dia. (mm)	38	63	63	97	•
Canister Height (mm)	120	120	120	276	•
Number of Canisters (ea)	1	1	1	1	•
Straw Capicity 0.5ml	214	820	820	1508	•
Straw Capicity 0.25ml	472	1780	1780	3324	•
Racks and Vial Boxes — Number of Racks (ea)	•	•	•	1	1
Measurement of Racks (ea)	•	•	•	82X84	142X144
Measurement of Boxes (ea)	•	•	•	76X76	134X134
Number of layers per rack (ea)	•	•	•	3	5
Number of Vials (ea)	•	•	•	75	500
25ml (multi) — Number of racks (ea)	•	•	•	1	15
Number of Layers per rack (ea)	•	•	•	2	3
Number of Boxes per rack (ea)	•	•	•	3	1
Number of Blood bags (ea)	112	112	168	6	45
50ml (multi) — Number of Racks (ea)	•	•	•	1	8
Number of layers per rack (ea)	•	•	•	1	3
Number of Boxes per rack (ea)	•	•	•	3	1
Number of Blood bags (ea)	•	•	•	3	24
Lockable Lid is Optional (ea)	✔	✔	✔	✔	✔
Intelligent Monitor Optional (ea)	✔	✔	✔	✔	✔

Model	CSD-10-125F	CSD-15-125F	CSD-20-125F	CSD-25-125F	CSD-30-125F	CSD-35-125F	CSD-47-127F
Capacity	10	15	20	25	31.5	35.5	47
Empty Weight (KG)	5.9	8.3	10.5	12.3	12.6	13.9	15
Neck (mm)	125	125	125	125	125	125	127
Outer Diameter (mm)	300	394	394	394	461	461	461
Height (mm)	546	585	670	700	659	700	754
Static Evaporation loss rate (L/day)	0.42	0.36	0.37	0.37	0.35	0.37	0.45
Static Holding Time (day)	24	42	54	67	90	97	105
Racks and Vial Boxes — Number of racks (ea)	1	1	1	1	7	7	7
Measurement of racks (mm)	82X84	82X84	82X84	82X84	82X84	82X84	82X84
Measurement of boxes (mm)	76X76	76X76	76X76	76X76	76X76	76X76	76X76
Number of slots per rack (ea)	3	3	4	5	4	5	6
Number of vials (ea)	75	75	100	125	700	875	1050
25ml (single) — Number of racks (ea)	•	•	•	•	18	18	18
Number slots per rack (ea)	•	•	•	•	2	2	3
Number of blood bags (ea)	•	•	•	•	36	36	54
25ml (multi) — Number of racks (ea)	•	•	•	•	7	7	7
Number of slots per rack (ea)	•	•	•	•	2	2	3
Number of boxes per slot (ea)	•	•	•	•	4	4	4
Number of blood bags (ea)	•	•	•	•	56	56	84
50ml (multi) — Number of racks (ea)	•	•	•	•	•	•	•
Number of layers per rack (ea)	•	•	•	•	•	•	•
Number of boxes per layer (ea)	•	•	•	•	•	•	•
Number of blood bags (ea)	•	•	•	•	•	•	•
Lockable lid Optional (ea)	✔	✔	✔	✔	✔	✔	✔
Intelligent Monitor Optional (ea)	✔	✔	✔	✔	✔	✔	✔

Model	CSD-47-127F	CSD-50B-125F	CSD-65-216F	CSD-95-216F	CSD-115-216F	CSD-140-216F	CSD175-216F
Capacity	47	50	65	95	115	140	175
Empty Weight (KG)	15	15.5	49	55	60	67.4	75
Neck (mm)	127	125	216	216	216	216	216
Outer Diameter (mm)	461	461	681	681	681	681	681
Height (mm)	754	754	745	770	850	940	1040
Static Evaporation loss rate (L/day)	0.45	0.43	0.78	0.97	0.94	0.96	0.95
Static Holding Time (day)	105	115	83	98	122	146	184

Racks and Vial Boxes

Number of racks (ea)	7	7	7	7	7	7	7
Measurement of racks (mm)	82X84	82X84	142X144	142X144	142X144	142X144	142X144
Measurement of boxes (mm)	76X76	76X76	134X134	134X134	134X134	134X134	134X134
Number of layers per rack (ea)	6	6	4	5	6	8	105
Number of vials (ea)	1050	1050	2800	3500	4200	5600	7000

25ml (single)

Number of racks (ea)	18	18	30	30	30	30	30
Number of layers per rack (ea)	3	3	2	2	3	4	5
Number of blood bags (ea)	54	54	60	60	90	120	150

25ml (multi)

Number of racks (ea)	7	7	7	7	7	7	7
Number of layers per rack (ea)	3	3	2	2	3	4	5
Number of boxes per layer (ea)	4	4	10	10	10	10	10
Number of blood bags (ea)	84	84	140	140	210	280	350

50ml (multi)

Number of racks (ea)	•	•	•	7	7	7	7
Number of layers per rack (ea)	•	•	•	2	3	4	5
Number of boxes per layer (ea)	•	•	•	8	8	8	8
Number of blood bags (ea)	•	•	•	112	168	224	280

Lockable lid Optional (ea)	✔	✔	✔	✔	✔	✔	✔
Intelligent Monitor Optional (ea)	✔	✔	✔	✔	✔	✔	✔

Storage Dewar

Plug — Handle — Neck tube — Canister
Aluminum alloy outer shell
Aluminum alloy inner vessel

PRODUCT STANDARD
- GB/T 5458-2012

PRODUCT QUALIFICATION
- CE certificate
- Conforms to MDD 93/42/EEC Medical Device Directive for the EU

PRODUCT FEATURES
- Made of high-strength aluminum alloy
- Advanced powder coat finish for increased durability
- A locked-lid switch for safety of preserved sample is optional
- Leather bag is standard for protection and ease of transport
- Service life is five years
- Temperature and Liquid Level monitor available

APPLICATION RANGE
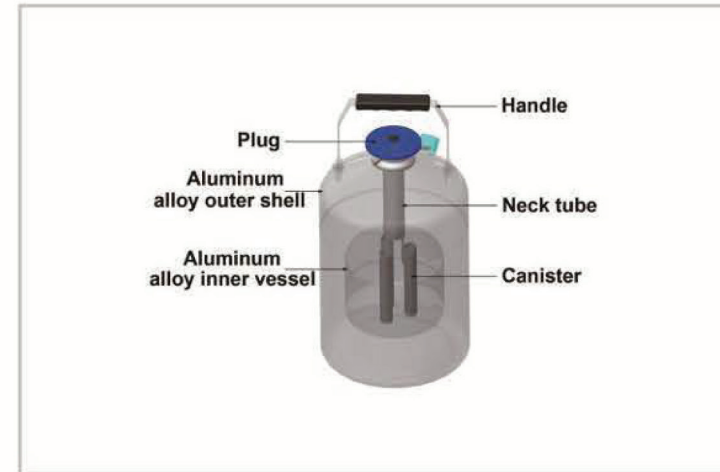- Mainly used for artificial insemination and biological samples delivery

WARRANTY
- Two year tank warranty and five year vacuum warranty

Portable Dewar

PRODUCT STANDARD
- GB/T 5458-2012

PRODUCT QUALIFICATION
- CE certificate
- Conforms to MDD 93/42/EEC Medical Device Directive for the EU

PRODUCT FEATURES
- Made of high-strength aluminum alloy
- Advanced powder coat finish for increased durability
- A locked-lid switch for safety of preserved sample is optional
- Leather bag is standard for protection and ease of transport
- Service life is five years
- Temperature and Liquid Level monitor available

APPLICATION RANGE
- Mainly used for artificial insemination and biological samples delivery

WARRANTY
- Two year tank warranty and five year vacuum warranty

Model	CSD-2-30	CSD-2-35	CSD-2	CSD-3	CSD-6	CSD-10
Capacity	2	2	2	3.1	6	10
Empty Weight (KG)	2.9	2.5	2.8	3.5	5	5.8
Neck (mm)	30	35	50	50	50	50
Outer Diameter (mm)	224	195	224	224	300	300
Height (mm)	378	410	375	429	476	536
Static Evaporation loss rate (L/day)	0.07	0.08	0.1	0.12	0.12	0.12
Static Holding Time (day)	28	24	20	26	52	86
Canister Outer Diameter (mm)	19	25	•	38	38	38
Canister Height (mm)	120	120	•	120	120	120
Number of Canisters (ea)	3	3	•	6	6	6
Straw Capaciy (single level) 0.5ML	90	165	•	792	792	792
Straw Capaciy (single level) 0.25ML	204	330	•	1788	1788	1788
Straw Capaciy (double level) 0.5ML	•	•	•	•	•	•
Straw Capaciy (double level) 0.25ML	•	•	•	•	•	•
Lockable lid Optional (ea)	✔	✔	✔	✔	✔	✔
Intelligent Monitor Optional (ea)	✔	✔	✔	✔	✔	✔