



Advance Biotech Solutions India Pvt. Ltd.

(Advance Technologies, Effective Solutions)



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CRYO ★ ADVANCE

LIQUID NITROGEN CONTAINER

ABSIPL IS A MARKET LEADER IN REFRIGERATION & COOLING TECHNOLOGY. ABSIPL REPRESENTING MARKET WITH WIDEST RANGE OF LN₂ CONTAINER BY THEIR OEM MANUFACTURED SYSTEM. THIS PRODUCT IS DESIGNED TO STORE BLOOD PLASMA, BIOLOGICAL MATERIALS. APPLICATIONS COULD BE FOUND IN THE CHEMICAL LABORATORIES EPIDEMIC PREVENTION, HOSPITALS, ANIMAL HUSBANDRY AREAS, BLOOD BANKS AND RESEARCH INSTITUTES.

WE ABSIPL MAKES LIQUID NITROGEN CONTAINER BRAND CRYO * ADVANCE MODEL CRYO KING SERIES FOR STORAGE OF CRYO GENIC SAMPLE FOR LONG PRESERVATION.

CRYO KING SERIES LIQUID NITROGEN CONTAINER COMBINED WITH THE ADVANTAGES OF LITTLE NITROGEN CONSUMPTION AND MEDIUM RANGE STORAGE CAPACITY, MEETING DIFFERENT NEEDS OF PROFESSIONALS ALL OVER THE WORLD.

THIS KIND OF CONTAINER PROVIDES HIGH EFFICIENCY OF LARGE CAPACITY SAMPLE CRYOPRESERVATION WITH LIGHT WEIGHT AND SMALL SPACE OCCUPYING. ALL MODELS INCLUDE RACKS, PC CRYO BOXES AND LOCKABLE LIDS.



Key Features

- Equip with racks and box
- Dual-lock construction
- Durable aluminium construction
- Larger storage capacity, less liquid nitrogen consumption
- Compatible with all major storage box brands
- Liquid level monitoring system optional
- Mobile roller bases optional
- 5 year vacuum warranty

Real-time Liquid Level Monitoring System

Liquid level monitoring system continuously monitors the temperature inside the container. The liquid level monitoring system matches all Cryo King models, optimal choice for long time monitoring of samples storage. It realizes reminding users to add liquid nitrogen timely too. There are Cryo monitor 1000/2000 models.

Cryo monitor 1000 liquid level monitor

This system with real-time temperature display:

1. High/low temperature alarm
2. Sensor fault audible and visual alarm



Ultra Low-power Consumption Liquid Level Monitoring System

Data collected by Smart Sensor, and then transferred to cloud storage by Black Box. Users only have to log on Cold Cloud to query and download data. This system is the latest monitoring product easy installation and accurate data.



Cryomonitor 2000 Automatically Filling System

It is very useful to fill liquid nitrogen automatically for long time sample storage. Cryomonitor 2000 constantly monitors temperature inside the container, controlling liquid filling solenoid valve open and close, supplying liquid nitrogen timely.

Specification

Model	UNIT	CSA-CK600	CSA-CK750	CSA-CK900	CSA-CK2000	CSA-CK2400
Capacity	L	30.0	33.3	55.0	65.0	65.0
Empty Weight	KG	13.1	14.6	18.2	30.0	39.0
Neck Diameter	MM	125	125	127	216	216
Outer Diameter	MM	464	464	508	678	678
Height	MM	608	627	718	737	737
Static Evaporation Loss Mass	L/D	0.33	0.36	0.36	0.58	0.58
Static Holding Time	DAYS	90	97	130	120	120
Number of Racks/ Canister		6	6	6	6	6
Number of boxes per Rack		4	5	6	4	4
Measurement of Racks	MM	82x 84	82x 84	82x 84	142x144	142x144
Measurement of Boxes	N	76x 76	76x 76	76x 76	134x134	134x134
Number of vials	2.0ML	600	750	900	2000	2400

Model	UNIT	CSA-CK3000	CSA-CK3600	CSA-CK4000	CSA-CK4800	CSA-CK6000
Capacity	L	95.0	115.0	120.0	140.0	175.0
Empty Weight	KG	42.0	43.5	45.0	45.0	54.0
Neck Diameter	MM	216	216	216	216	216
Outer Diameter	MM	678	678	678	678	678
Height	MM	795	860	1050	1050	1130
Static Evaporation Loss Mass	L/D	0.95	0.95	0.95	0.95	0.95
Static Holding Time	DAYS	100	121	126	147	184
Number of Racks		6	6	6	6	6
Number of Boxes per Rack		5	6	7	8	10
Measurement of Racks	MM	142x144	142x144	142x144	142x144	142x144
Measurement of Boxes	N	134x134	134x134	134x134	134x134	134x134
Number of Vials	2.0ML	3000	3600	4000	4800	6000

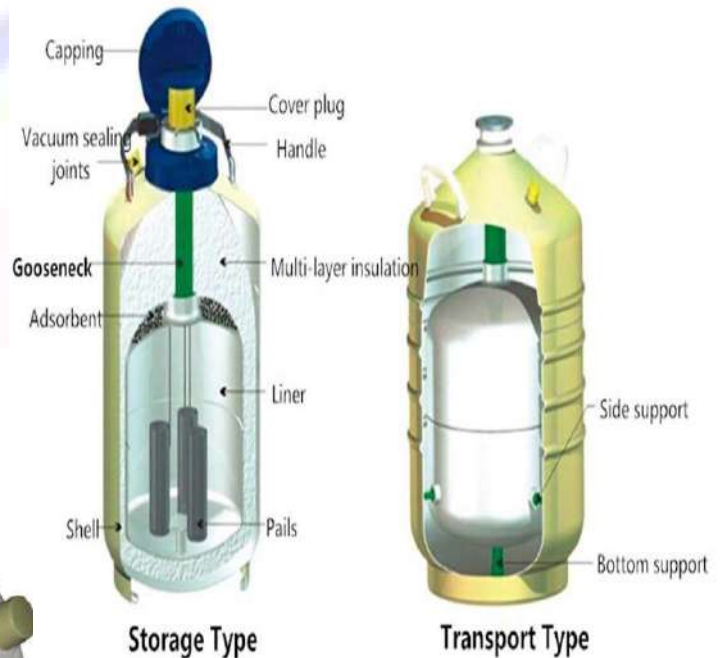
Note: Product appearance and specifications are subject to change without notice

CRYO QUEEN SERIES (DRY SHIPPER) ARE ECONOMICAL SMALL AND MEDIUM SIZE LIQUID NITROGEN CONTAINERS FOR LONG TERM STATIC STATE STORAGE. CRYO QUEEN SERIES ARE MADE OF HIGH STRENGTH AND LIGHTWEIGHT ALUMINIUM ALLOY. THERE IS MULTILAYER SUPERIOR PERFORMANCE THERMAL INSULATION INSIDE.

VARIOUS ACCESSORIES ARE OPTIONAL. MAINLY APPLY TO ANIMAL HUSBANDRY AND LABORATORIES.

Key Features

- High strength and light weight aluminium construction
- Ultra low evaporation losses
- Numbered index location points for canisters
- Mobile roller base optional
- Lockable lid
- Straw storage
- LN₂ pump optional
- 5 years vacuum warranty



Specification

Model	CSA-CQ3	CSA-CQ5	CSA-CQ10	CSA-CQ15	CSA-CQ25	CSA-CQ30	CSA-CQ50
Capacity	3.0	5.0	10.0	15.0	20.0	30	50
Empty Weight	3.1	4.8	5.0	5.5	5.5	6.0	10.0
Neck Diameter	50	50	50	50	50	50	50
Outer Diameter	223	300	300	396	396	396	508
Height	425	482	552	591	700	672	746
Static Evaporation Loss Mass	0.11	0.11	0.11	0.11	0.11	0.11	0.23
Static Holding Time	26	52	86	135	168	286	213
Canister Outer Diameter	38	38	38	38	38	38	38
Canister Height	120	120	120	120	120	120	120/276
Number of Canister	6	6	6	6	6	6	6



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Pressurize Equipment

■ SELF-PRESSURIZED LIQUID NITROGEN SUPPLYING TANKS

INTRODUCTION

Self-pressurized series liquid nitrogen replenishment tank is used for transportation and storage of low-temperature liquid nitrogen. It is a high-performance low-temperature liquid nitrogen medium storage container. Internally stored liquid nitrogen is drained. Self-pressurization series liquid nitrogen tanks are composed of control structure and tank body. All models in this series are equipped with four mobile swivel casters, which facilitate the use and movement of containers in different locations. At present, it is widely used in mold industry, animal husbandry, medicine, semiconductor, food, aerospace, military and low temperature chemical industries and fields.

FEATUERES

1. Unique neck design reduces liquid nitrogen evaporation rate
2. Perfect safety structure
3. Comes with universal casters, easy to move PD
4. Can be equipped with automatic rehydration system
5. 5 Years Vacuum Warranty
6. Unique stainless steel tank polishing technology
7. With low temperature regulator valve (optional protective operating ring)
8. Configurable intelligent monitoring system for remote monitoring

Model	Unit	CSA-CQ30P	CSA-CQ50P	CSA-CQ100P	CSA-CQ150P	CSA-CQ200P
Geometric volume	L	33	55	110	165	220
Effective volume	L	30	50	100	150	200
Tank outer diameter	mm	404	455	556	656	656
Height	mm	850	960	1120	1110	1280
Empty weight	kg	30	38	63	86	96
Static liquid nitrogen daily evaporation rate	%	3.2	2.2	1.2	1	0.8
Standard working pressure	Mpa	0.05	0.05	0.05	0.05	0.05
Maximum working pressure	Mpa	0.09	0.09	0.09	0.09	0.09
Infusion volume	L/min	≥5 L/Min	≥5L/Min	≥5 L/Min	≥5 L/Min	≥10L/Min
Primary safety valve opening pressure	Mpa	0.099	0.099	0.099	0.099	0.099
Secondary safety valve opening pressure	Mpa	0.15	0.15	0.15	0.15	0.15
Pressure gauge indication range	Mpa	0~0.25	0~0.25	0~0.25	0~0.25	0~0.25

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Model	Unit	CSA-CQ230P	CSA-CQ300P	CSA-CQ500P	CSA-CQ1000P	CSA-CQ2000P
Geometric volume	L	250	330	550	1100	2150
Effective volume	L	230	300	500	1000	2000
Tank outer diameter	mm	656	806	958	1260	1362
Height	mm	1580	1410	1500	1480	1630
Empty weight	kg	130	205	265	540	950
Static liquid nitrogen daily evaporation rate	%	0.6	0.8	0.8	0.6	0.5
Standard working pressure	Mpa	0.05	0.05	0.05	0.05	0.05
Maximum working pressure	Mpa	0.09	0.09	0.09	0.09	0.09
Infusion volume	L/min	≥10L/Min	≥10L/Min	≥10L/Min	≥10L/Min	≥10L/Min
Primary safety valve opening pressure	Mpa	0.099	0.099	0.099	0.099	0.099
Secondary safety valve opening pressure	Mpa	0.15	0.15	0.15	0.15	0.15
Pressure gauge indication range	Mpa	0~0.25	0~0.25	0~0.25	0~0.25	0~0.25



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SMALL CAPACITY VAPOR PHASE LIQUID NITROGEN CONTAINERS

The small gas phase liquid nitrogen tank realizes real-time temperature monitoring, liquid level monitoring, automatic replenishment, remote monitoring and alarming, and automatic backup storage of monitoring data. Based on the capacitive liquid level sensor, the liquid level can be easily and automatically controlled to achieve gas-phase storage at -190°C at the top of the tank, which completely solves the technical problems of electronic information technology in the low temperature environment of -196°C. The advanced liquid nitrogen tank manufacturing technology and intelligent monitoring technology are perfectly combined. The product is light in weight, small in footprint, large in capacity, and efficient in sample access. It can monitor the running status of the liquid nitrogen tank in real time, and alarm in time if there is a problem to ensure that the sample Store safely. Mainly suitable for users such as biomedical and sample libraries



Model	CSA-CB2400	CSA-CB3600	CSA-CB4800	CSA-CB6000
Number of racks	6	6	6	6
2ml cryo vials number	2400	3600	4800	6000
Number of layers	4	6	8	10
Capacity (L)	65	115	145	175
Static Evaporation Rate (L/ D)	0.9	0.95	1.0	1.5
Neck Diameter (mm)	216	216	216	216
Height (mm)	780	800	1050	1100
Outer Diameter (mm)	678	678	678	678

■ DRY SHIPPER LIQUID NITROGEN CONAINER

INTRODUCTION

Air transport series is suitable for transporting samples in deep and low temperature environment (Storage in vapor phase at temperatures below -190°C). It can avoid the danger of liquid nitrogen release during transportation, can be used to transport liquid nitrogen Hazardous samples for short-term aerospace such as aircraft. Liquid samples are suitable for internal transport, suitable for air freight. It can absorb and preserve liquid nitrogen, even if the container is dumped, there is no possibility of liquid nitrogen overflow. There is still a special stainless steel mesh interception area and liquid nitrogen knowledge, which can prevent liquid nitrogen from being mixed into the cryopreservation tube. Mainly suitable for laboratory users and users who need to transport for a short period of time.

FEATURES

1. -150°C gas phase low temperature transportation and storage
2. High-strength, lightweight aluminum construction for durability
3. 5 Years Vacuum Quality Guarantee
4. Fast liquid nitrogen adsorption design to prevent liquid nitrogen overflow
5. Stainless steel mesh split design to avoid liquid nitrogen mixing into the sample. Can be equipped with a safety lock to provide security for samples
6. Configurable intelligent monitoring system to view the sample storage environment in real time

Model	CSA-DS 1.5	CSA-DS 3	CSA-DS 4	CSA-DS 6	CSA-DS 6/190
CapacityL	1.5	3	4	6	6
Liquid nitrogen adsorption	0.6	1.3	1.8	2.4	1.8
Canister dimension (mm)	025*120	038*120	063*276	070*276	139*139*56
NUMBERS Cryo vials	6	9	96	126	100
25cells cryo box	N/A	N/A	N/A	N/A	N/A
100cells cryo box	N/A	N/A	N/A	N/A	1
50ml blood bags	N/A	N/A	N/A	N/A	N/A
250ml blood bags	N/A	N/A	N/A	N/A	N/A
Static Evaporation Loss L/day	0.09	0.15	0.19	0.21	0.8
Static Holding Time	7	9	9	11	2
Neck Diameter (mm)	35	50	70	80	190
Height (mm)	395	435	580	435	470
Outer Diameter (mm)	180	224	224	300	252
Empty weight (kg)	1.8	3.3	5.5	5.5	6.5
Full weight (kg)	3.0	5.7	8.8	10.4	11.4
Sample types	Cryopreservation vials				cryo box

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Model	CSA-DS 10/125	CSA-DS 15/216	CSA-DS 25/216	CSA-DS 4/125	CSA-DS 6/190	CSA-DS 25/216
Capacity L	10	15	25	4	6	25
Liquid nitrogen	6	6	10	2	1.8	10
Canister	76*76*225	139*139*112	139*139*280	N/A	N/A	N/A
NUMBERS Cryo	100	200	500	N/A	N/A	N/A
25cells cryo box	4	N/A	N/A	N/A	N/A	N/A
100cells cryo box	N/A	2	5	N/A	N/A	N/A
50mlblood bags	N/A	N/A	N/A	4	N/A	N/A
250ml blood bags	N/A	N/A	N/A	N/A	2	10
Static Evaporation	0.4	0.89	0.89	0.45	0.8	0.89
Static Holding	15	7	11	4	2	11
Neck Diameter	125	216	216	125	190	216
Height (mm)	554	480	650	615	470	650
Outer Diameter	300	396	396	224	252	396
Empty weight (kg)	8	11	12.5	8	6.5	12
Full weight (kg)	16.1	23.2	32.9	11.3	11.4	32.4
Sample types	Cryo box			Blood Bag box		



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LAB SERIES

INTRODUCTION

The liquid nitrogen storage and distribution series is specially designed for a small amount of liquid nitrogen storage and short-distance transportation. It has small diameter and low evaporation loss rate. It is an efficient, convenient and economical way to store and distribute liquid nitrogen. pressure discharge liquid nitrogen. Widely used in animal husbandry bureaus, farms, universities and other industries.

FEATURES

1. High-strength, lightweight aluminum construction for durability
2. Standard KF50 caliber, convenient for liquid nitrogen pump connection
3. High quality neck tube reduces loss of liquid nitrogen
4. A variety of volumes to choose from table
5. Can be equipped with a protective cover to prevent bumps
6. Can be equipped with a mobile trolley for easy transportation
7. 5 Years Vacuum Guarantee
8. 9.Product CE certification



Model	CSA-LS 3	CSA-LS 6	CSA-LS 10	CSA-LS 20	CSA-LS 30	CSA-LS 50
PERFORMANCE						
LN2 CAPACITY	3	6	10	20	30	50
Static Evaporation	0.12	0.12	0.12	0.12	0.12	0.23
UNIT dimension						
Neck diamter (mm)	50	50	50	50	50	50
Height(mm)	427	471	534	661	648	738
Out diameter(mm)	223	300	300	384	464	508
Inisde diameter (mm)	160	231	231	296	386	420
Empty weight (kg)	3.1	4.8	6.5	12	16	21

CONTROLLED RATE FREEZER

This series of program-controlled cooling devices is a high-performance, safe and reliable refrigeration system with adjustable temperature change rate. It has been widely used in various fields such as light industry, agriculture, medicine, and basic biological research. , Cryopreservation of bone marrow cells, tumor cells, animal and plant cells, cardiomyocytes, etc. The newly designed integrated Cryo-box system adopts the latest temperature control technology and liquid nitrogen dispersion technology, which makes the program-controlled cooling process uniform and stable, and can perform IQ/OQ operation, effectively meeting the needs of GLP laboratories



FEATUERES

- Microprocessor control, high control precision,
- In-situ foam insulation design, good thermal insulation performance
- Dual probes for precise temperature control,
- Touch screen simultaneously displays the transmission curve to display parameters such as cavity and sample temperature,
- Automatic data storage and backup to ensure that there is evidence available check
- Powder-coated cavity structure, robust and durable
- 7 Stainless steel inner wall, silent operation, quiet operation
- Front door for easy access to samples

MODLE	CSA-CRF-18	CSA-CRF36	CSA-CRF54
CAPACITY			
2m1VIALS	380	805	1185
5mlVIALS	152	322	474
25/50ml BLOOD BAG	30	60	90
250mlBLOOD BAG	4	8	12
TEMPERRATER	50°C T O -190°C		
UNIT DIMENISON	810*540*790	960*540*790	1110*540*790
INSIDE DIMENSION	180*305*330	330*305*330	485*305*330

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CAPACITY (L)	18	36	54
NET WEIGHT (KG)	64	75	83
COOLING RATE	0.1-60°C/min		
HEATING RATE	0.1-10°C/min		
TEMPERATURE CHANGE	<2°C (The temperature difference between two points in the cavity during the cooling process)		
CONTROL	Microcomputer control		
PROGRAM CONTROL	Sample temperature/Cavity temperature		
DISPLAY	7inch touch screen		
AVAILABLE PROGRAMS	6 preset programs, 20 user-defined programs		

STAINLESS STEEL CRYOBIO BANK BIG STORAGE CAPACITY

Provides a safer ultra-low temperature liquid storage system for large dry liquid smart tanks, which can store 15600-18002ml cryopreservation tubes, and the large diameter can facilitate the storage of samples. Provide users with 5 safer and more delicious liquid level designs. The temperature real-time system monitors the equipment status, monitoring. The integrated folding table, auxiliary work table and fan-shaped ladder table are designed to ensure the safe operation of the sample equipment. Monitor ability and operability monitor monitor mode. Opening for a long time can ensure that the temperature of the entire interior is also uniform and stable. When the lid is stored, the temperature



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difference in the entire area does not exceed 10°C, and the part that freezes over the top of the storage can be as low as -190°C, in order to achieve a safer and more user-friendly The design can ensure that the cells take up space and more storage capacity.

FEATURES

1. Compatible with both gas phase and liquid phase storage modes to meet all user needs
2. Various volumes are available to meet customer needs
3. Compatible with both manual and automatic rehydration control modes, making the operation experience more flexible
4. Key defogging function, easy to find and take samples
5. Multiple humanized designs, more convenient to operate
6. Advanced temperature, liquid level monitoring and alarm system, which can realize network monitoring
7. Hot gas bypass design reduces the influence of temperature fluctuations inside the tank and ensures the safety of samples
8. Support data backup and save, print and export

SMART CONTROL



A variety of mainstream communication protocols; using a 10-inch or 7-inch LCD smart touch screen to The chart form visually displays the operation status and various parameters of the liquid nitrogen tank.

The terminal can automatically/manually open the liquid inlet solenoid valve to replenish liquid nitrogen, monitor the liquid level height, the temperature of the high and low points of the tank, the switch status of the solenoid valve and the running time, etc., with authority and security password protection, and various alarm functions (liquid level). Alarm,

temperature alarm, over-limit alarm, sensor failure alarm, cover-opening overtime alarm, refill overtime alarm, SMS remote alarm, power supply alarm and more than ten alarm functions), comprehensively monitor the working status of the liquid nitrogen storage system in real time, and can monitor the signal is transmitted to the central computer for unified centralized monitoring and control

ADVANTAGES

1. Real-time display function of temperature and liquid level data
2. High Precision Clamp Resistance Temperature Sensor

Compatible with differential pressure and capacitive liquid level sensors

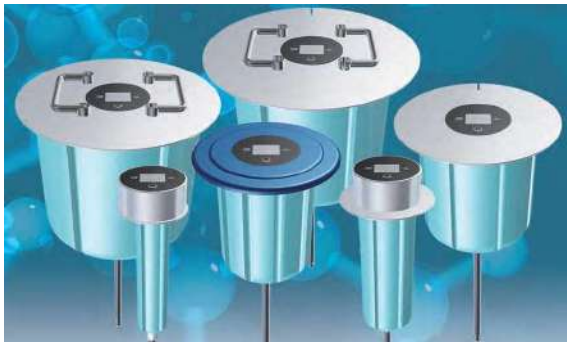
3. Fully automatic liquid nitrogen filling function
4. With wired/wireless/WiFi/4G and other communication methods
5. Choice of three operating modes: gas phase, liquid phase and manual
6. Various alarm self-diagnosis functions
7. Telephone/SMS/WeChat/Email and other remote alarm functions
8. Local sound and light alarm function
9. System authority hierarchical management function
10. Telephone/SMS/WeChat/Email and other remote alarm functions
11. Local sound and light alarm function
12. Automatically record operating data
13. The local data is permanently saved, and the data can be exported through the U disk cloud data backup function
14. Backup power and UPS power
15. System authority hierarchical management function



MODEL	CSA-CPSS-370	CSA-CPSS-460	CSA-CPSS-550	CSA-CPSS-800	CSA-CPSS-900	CSA-CPSS-1000	CSA-CPSS-1800
1.2 & 2 ml Vials (Internally Threaded)	15600	19500	28000	39200	42000	55500	94500
Number of Racks 100 cell boxes	12	12	24	24	26	32	60
Number of Racks 25 cell boxes	4	4	16	16	16	20	12
Number of Stages per Rack	12	15	10	14	14	15	15
LN2 capacity L	370	460	550	800	900	1000	1800
LN2 capacity below L	55	55	133	133	133	200	295
LN2 Usage at -80BC L/day(Gas)	11	11	20	20	20	25	30
LN2 Usage L/day (Liquid)	74	92	80	118	118	125	177
Neck Opening(mm)	320	320	445	445	445	500	635
Usable Internal Height in mm	680	875	680	780	780	870	870
Inner Diameter (mm)	730	730	980	980	980	1130	1390
Overall Height (mm)	1400	1450	1505	1605	1605	1680	1685
Stand lifting height (mm)	920	1118	1052	1052	1052	1118	1118
Door Width Requirement mm	815	815	1090	1090	1090	1300	1565
Weight Empty (kg)	258	283	310	355	358	580	805
Weight Full (kg)	559	657	418	1006	1009	743	2270
Blood Bag Capacities (Total Bags / Bags Frame / No. Frames)							
791 OS/U (25ml)	1224/6/204	1836/9/204	2496/6/415	3320/8/415	3184/8/398	4160/8/520	6432/8/804
4R9951 (50ml)	768/6/128	1024/8/128	1488/6/248	1736/7/248	1687/7/241	2528/8/316	3920/8/490
4R9953 (250ml)	416/4/104	520/5/104	812/4/203	812/4/203	768/4/192	1320/5/264	2010/5/402
4R9955 (500ml)	304/4/76	380/5/76	608/4/152	608/4/152	576/4/144	1000/5/200	1550/5/310
DF200 (200ml)	236/4/59	295/5/59	496/4/124	496/4/124	488/4/122	780/5/156	1230/5/246
DF200 (700ml)	/	/	/	256/4/64	264/4/66	440/5/88	680/5/136

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ACCESSORIES



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ADVANCE BIOTECH SOLUTIONS INDIA PRIVATE LIMITED

(ADVANCE TECHNOLOGIES, EFFECTIVE SOLUTIONS)

311, Vardhman Key Point Plaza, Plot No.1, Local Shopping Centre, Sector-6, Dwarka, Near DAV Public School
New Delhi-110 075 Ph: 011-25074703/25050521, Email Id: - skp@absipl.in, Website: - www.absipl.in