

Precise Vacuum Systems Private Limited is pioneer in manufacturing vacuum systems, vacuum components, Liquid Nitrogen based Space Simulation Chambers, Freeze Dryers etc. Company is now entering in the field of Cryogenic Dewars ranging from capacity of 1 to 50 Liters. These are for usage in cross breeding (artificial insemination) to increase the milk production, medical purpose and industries.

Dewars are used by Animal husbandry by Veterinary doctors. Dairy and Development corporations use it for artificial inseminations to boost the milk production. Containers are also used in medical and manufacturing industries, steel plants, auto industries etc.

Cryo Dewars are double walled super insulated vacuum containers consisting of Inner and Outer vessel made of Aluminum Alloy joined to settle with super grade of FRP neck. These are bonded together with special imported adhesive to withstand in cryogenic environment. Annular space is superinsulated and evacuated to a very high vacuum using precision pumping systems.

Dewars made by Precise Vacuum Systems are light weight and as per international standard. These are easy to handle and demonstrate very low evaporation rate. Precise Vacuum Systems Dewars are manufactured with indigenously developed technology. Personnel have more than 2 decades experience of working with American, European and Japanese processes and technologies of Cryo Dewars. Precise Vacuum Systems manufactures 3 types of Dewars.

1. **Transportation of Liquid Gas.**
2. **Stationary Dewars for storing of Bulk doses of Semen.**
3. **Laboratory and portable models which can be carried on two wheelers to villages for artificial insemination as these are light weight.**

We also manufacture transfer device for transferring Liquid Nitrogen from one container to another with minor loss of Liquid Nitrogen. Standing Trolleys for transport container, moving trolleys for stationary container for shifting of container from one corner to another of the building.

"Cryogem" State-of-art Aluminum Containers are manufactured at company facility at Nasik. Performance of Cryogems is at par or better than all the national and international brands. Cryogems have basic following characteristics:

- **Rugged Construction**
- **Technically superior advanced super insulation having optimum thermal efficiency**
- **2 years warrantee for vacuum**
- **Sealed under high vacuum**
- **Superior vacuum parameters and processing**
- **User friendly**
- **Accessories for handling of Liquid Nitrogen and biological products are available**
- **Easy to handle smaller models on two wheelers**

### Semen Preservation Models

Description	Units	PS-1.5	PS-3	PS-7	PS-10	PS-21	PS-34	PB-90	PB-120
Capacity	Ltrs.	1.5	4.1	7.9	10.9	21.9	34.8	24	47.5
* Empty Weight	Kgs.	1.8	3.2	5.4	6.4	11.9	16	11.5	17
* Full Weight	Kgs.	3.2	7.0	11.5	15.6	30	44.5	30.7	58.5
Neck Diameter	mm	32	51	51	51	51	51	90	120
Outer Diameter	mm	175	220	300	300	400	460	460	460
Total Height	mm	360	450	530	570	670	690	450	700
Static Evaporation Loss Rate	Ltrs/day	0.097	0.135	0.13	0.14	0.115	0.115	0.34	0.37
*Static Holding Time	Days	15	30	58	78	188	300	70	128
Canister O.D	mm	17/26	38	38	38	38	38	68	72
Canister Height	mm	127	127	127/280	127/280	127/280	127/280	120	280
No. of Canisters	No.	3	6	6	6	6	6	9	11
Straw holding Capacity Single Level	0.5ml 0.25ml	54/180 108/360	720 1560	720 1560	720 1560	720 1560	720 1560	3285 7380	NA
Straw holding Capacity Double Level	0.5ml 0.25ml	NA	NA	1440 3120	1440 3120	1440 3120	1440 3120	NA	8000 18000

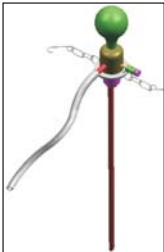
### Transport Models

Description	Units	PM-25	PM-34	PM-54
Capacity	Ltrs.	25.7	34.9	54.8
* Empty Weight	Kgs.	11.9	16	17
* Full Weight	Kgs.	33	44	61
Neck Diameter	mm	51	51	51
Outer Diameter	mm	400	460	460
Total Height	mm	670	690	745
Static Evaporation Loss Rate	Ltrs/day	0.25	0.28	0.4
*Static Holding Time	Days	100	124	135
Canister O.D	mm	NA	NA	NA
Canister Height	mm	NA	NA	NA
No. of Canisters	No.	NA	NA	NA
Straw holding Capacity Single Level	0.5ml 0.25ml	NA	NA	NA
Straw holding Capacity Double Level	0.5ml 0.25ml	NA	NA	NA

\* The product specifications may vary due to continuous upgradation in design.  
- Static evaporation rates are calculated as per ISI standard. Actual loss may vary depending upon field conditions.

### Accessories

Liquid Transfer Device



Handling Trolley



### Local Distributor



Address for Correspondence :  
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IMAGE PHOTO COURTESY OF M. J. JOSHI

# CRYOGEM

By Precise



**PRECISE VACUUM SYSTEMS PVT. LTD.**