

# CryoGuard™ Class

The CryoGuard™ Class from CryoSafe™ has been specifically engineered to provide cryogenic vapor temperatures throughout the tank well below the critical -135°C range. With only a few inches of liquid, vapor temperatures as low as -180°C can be maintained at the highest shelf. Maintaining temperatures below the glass transition temperature of -135°C helps insure long-term cell viability.

CryoGuard's™ unique, restricted-opening, neck design with double-hinged lid brings LN<sub>2</sub> consumption to one of the lowest rates in the industry. In vapor phase operation, LN<sub>2</sub> is stored out of the inventory storage area helping eliminate cross contamination issues. The unique inventory holding container is engineered to maximize the use of 81/100 cell box racks. This feature improves cryo vial inventory, placement, tracking, and retrieval.

Every CryoGuard™ comes standard with: 6ft. stainless steel armor-plated transfer hose, 3/5 warranty, folding step, inventory carousel, keyed lid lock, LN<sub>2</sub> measuring rod, flat stainless-steel work surface and the iSentry Plus controller. Package systems are available with CryoGloves, stainless steel racks, and either polycarbonate or fiberboard inventory boxes.



- Three-year warranty on all parts and labor
- Five-year warranty on vacuum

### Features:

- iSentry Plus Controller and alarms
- Controller surge protection
- Stainless steel outer & inner tank wrapped with super insulate
- UL-Listed Transformer
- Stainless steel armor-plated transfer hose
- Hinged lid with locking provision & protective boot
- Flat stainless steel work surface
- Inner aluminum inventory carousel for convenient sample access
- Keyed lid lock
- Foldable skid free step
- Low profile lockable casters

Models	CGSP-1	CGSP-2	CGSP-3	CGSP-4
Total Vial Capacity (2 ml Vial Not Included)	19,500	41,600	79,300	94,500
Total Bag Capacity (250 ml Bag Not Included)	500	990	1920	2304
LN <sub>2</sub> Capacity (Vapor Storage Liters)	36	80	137	300
LN <sub>2</sub> Capacity (Liquid Storage Liters)	371	698	1269	1595
Static Evaporation Rate* (Liters/Day)	8	9	15	15
Overall Height** (in/mm)	53/1346.2	53/1346.2	53/1346.2	62/1575
Reach-over Height (in/mm)	42.5/1079.5	42.5/1079.5	42.5/1079.5	40/1016
Usable Height (in/mm)	30/762	30/762	30/762	35.3/896.6
Exterior Diameter (in/mm)	34/863.6	45/1143	59.5/1511	59.5/1511
Internal Diameter (in/mm)	29.5/749.3	40.5/1028.7	55/1397	55/1397
Neck Diameter (in/mm)	13/330.2	18/457.2	24.5/622	24.5/622
Weight Empty (lbs/kg)	650/294.8	920/417.3	1550/703	1700/771
Weight Full (lbs/kg)	1311/594.6	2164/981.6	3811/1728.2	4542/2060
Power Requirement	16.5 VAC	16.5 VAC	16.5 VAC	16.5 VAC

\*Static Evaporation Rate is nominal. Actual rate may be affected by the nature of the contents, atmospheric conditions, container history and manufacturing tolerances.

\*\*Overall Height does not include controller module



## iSentry Plus Liquid Nitrogen Controller and Alarm



CGSP-1

CGSP-2

CGSP-3

CGSP-4

### Optional Accessories:

- CryoGloves
- Apron
- Face Shield
- Tongs
- T-Piece Connector
- Single Unit Canister (SUC-1) Rack
- Stainless Steel Racks
- Cassettes
- Frames
- Fiberboard Boxes (25, 81, 100 cell, or custom)
- Polycarbonate Boxes (25, 81, or 100 cell)

### Package Systems:

**Model:** CGSP-1 CS/ CGSP-2 CS/ CGSP-3 CS/ CGSP-4 CS

#### Includes:

Tank, iSentry Plus Controller, Stainless Steel Rack Inventory System, Inventory System, Fiberboard Boxes (25, 81, 100 cell, or custom), Cryogloves and LN<sub>2</sub> Measuring Rod

**Model:** CGSP-1 PS/ CGSP-2 PS/ CGSP-3 PS/ CGSP-4 PS

#### Includes:

Tank, iSentry Plus Controller, Stainless Steel Rack Inventory System, Polycarbonate Boxes (25, 81, or 100 cell), Transfer Hose, CryoGloves and LN<sub>2</sub> Measuring Rod



CGSP-3 CS