

# XLC SERIES

## Liquid Nitrogen “Liquid or Vapor Phase” Freezers

**Large Neck Opening —  
Easy Access to samples**

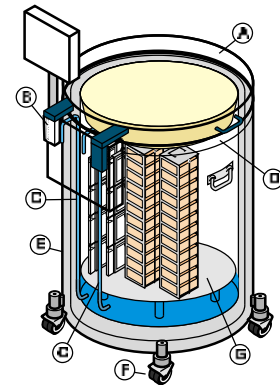
**Large Storage Capacity:  
4.000 to 100.000 Vials**

**Easy Maintenance**

**TEC 2000 Control System**

The XLC Cryo-Preservation Systems XLC140, 230, 511, 810, 1211, 1370, 1830 and 1841 are designed for the user who needs either vapor storage (at  $-125^{\circ}\text{C}$ ) or liquid storage (at  $-195^{\circ}\text{C}$ ).

A large neck opening and stainless steel construction provides the most durable environment for your biological samples. With advanced features and storage from 4,000 vials to 100,000 vials, the XLC series is the cryological choice.



### Options

Battery Back-Up

Gas Bypass



### Accessories

Square Racks — stainless or aluminum

Inventory Frames and Cassettes

Cardboard Boxes (81 cell)

Plastic Boxes (25 cell and 100 cell)

Metal Boxes (81 cell)

SUC Boxes

Canes and Protectors

Cryogenic Gloves

Fill Hose (Standard)

**Five year vacuum warranty**

**Luncescu Engineering & Consulting**

# Specifications

| Model                                     | XLC 140 | XLC 810       | XLC 1370      | XLC 1830 | XLC 1830 2T |
|---|---------|---------------|---------------|----------|-------------|
| <b>Maximum Storage Capacity</b>           |         |               |               |          |             |
| No. of 1,2 & 2.0 ml vials in racks        | -       | 11.700        | 24.000        | -        | -           |
| No. of racks (100 vials)                  | -       | 12 (9/2 rack) | 28 (8/2 rack) | -        | -           |
| No. of racks (25 vials)                   | -       | 4 (9/2 rack)  | 8 (8/2 rack)  | -        | -           |
| Total no. of racks                        | -       | 10            | 36            | -        | -           |
| No. of blood bags stored (Fenwal 4R-5461) | -       | N/A           | N/A           | N/A      | N/A         |
| No. of SUC-1 canisters (64 x 64 x 279 mm) | 22      | 70            | 152           | 306      | 561         |
| No. of 1,2 & 2.0 ml vials on canes        | 3.696   | 14.136        | 28.272        | 56.916   | 104.340     |
| No. of ½ cc straws (10/cane)              | 6.820   | 23.560        | 47.120        | 94.680   | 187.560     |
| <b>Performance</b>                        |         |               |               |          |             |
| Liquid nitrogen capacity (liters)         | 39      | 230           | 482           | 800      | 1.400       |
| Power supply                              | -       | 24 VDC        | 24 VDC        | 24 VDC   | 24 VDC      |
| <b>Unit Dimensions</b>                    |         |               |               |          |             |
| Neck opening (mm)                         | 406     | 635           | 902           | 635      | 635         |
| Usable height (mm)                        | 305     | 544           | 492           | 330      | 2 x 330     |
| Overall height (mm)                       | 445     | 1054          | 1172          | 991      | 1368        |
| Outside diameter (mm)                     | 457     | 787           | 1067          | 1524     | 1528        |
| Internal diameter (mm)                    | 406     | 716           | 1003          | 1422     | 1430        |
| Weight empty (kg)                         | 22      | 114           | 186           | 447      | 638         |
| Weight full (kg) w/LN2                    | 53      | 300           | 577           | 1144     | 1682        |

| Model  | XLC 230       | XLC 511       | XLC 1211       | XLC 1841       |
|--|---------------|---------------|----------------|----------------|
| <b>Maximum Storage Capacity</b>              |               |               |                |                |
| Number of 1,2 & 2.0 ml vials in racks        | 5.200         | 10.400        | 23.400         | 39.000         |
| Number of racks (100 vials)                  | 4 (13/2 rack) | 7 (13/2 rack) | 17 (13/2 rack) | 28 (13/2 rack) |
| Number of racks (25 vials)                   | -             | 4 (13/2 rack) | 4 (13/2 rack)  | 8 (13/2 rack)  |
| Total number of racks                        | 4             | 11            | 21             | 36             |
| Number of blood bags stored (Fenwal 4R-9953) | 132           | 224           | 480            | 856            |
| Number of SUC-1 canisters (64 x 64 x 279 mm) | 22            | -             | -              | -              |
| Number of 1,2 & 2.0 ml vials on canes        | 3696          | -             | -              | -              |
| Number of ½ cc straws (10/cane)              | 6820          | -             | -              | -              |
| <b>Performance</b>                           |               |               |                |                |
| Liquid nitrogen capacity (liters)            | 89            | 158           | 354            | 669            |
| Power supply                                 | 24 VDC        | 24 VDC        | 24 VDC         | 24 VDC         |
| <b>Unit Dimensions</b>                       |               |               |                |                |
| Neck opening (mm)                            | 408           | 528           | 788            | 1003           |
| Usable height (mm)                           | 683           | 726           | 726            | 846            |
| Overall height (mm)                          | 1150          | 1123          | 1219           | 1219           |
| Outside diameter (mm)                        | 457           | 579           | 838            | 1067           |
| Internal diameter (mm)                       | 408           | 528           | 788            | 1003           |
| Weight empty (kg)                            | 57            | 110           | 209            | 306            |
| Weight full (kg) w/LN2                       | 129           | 238           | 495            | 847            |