Taylor – Wharton

Presents

The LABS Series





LABS Series Introduction

- Construction
- ICS
- CryoCon Controls
- Transportation
- Maintenance
- Specifications
- Performance
- Turnkey Systems







- Laboratory Archival Biological Storage (LABS)
- LABS 80K 80,000 2ml
 Vials Nominal
- LABS 40K 40,000 2ml
 Vials Nominal
- LABS 20K 20,000
 2ml Vials Nominal







LABS Series Construction - Container

- Stainless Steel Vessel
- Super Insulation
 - Full Wrap
- Vacuum
- Helium Leak Test







LABS Series Construction - Castors

- 5 Castors
- 75 mm Lower Profile
- Locking Castors
- Precision Ball Bearing
 Castor
- Wheel Material -Advanced Elastomer







LABS Series Construction - Lid

- Hinged Lid
- Full Gasket (Secondary Vent Area)
- Two Handles
- Aluminum Lid
- Lockable Lid
- Durable Polyurethane
 Plug Material Cryo
 Compatible







LABS Series Construction - Table Top

- Stainless Steel
- Convenient Work
 Surface
- Controls and Solenoid under Table







LABS Series Construction - Integrated

Foldable Sur-Grip
 Step - No Shin
 Guards.

- Low Rise
- Working Height 1080 mm Lower than the 10K!





LABS Series Construction - Integrated

Ster

Foldable Sur-Grip
 Step - No Shin
 Guards.

- Low Rise
- Working Height 1080 mm - Lower than the 10K!





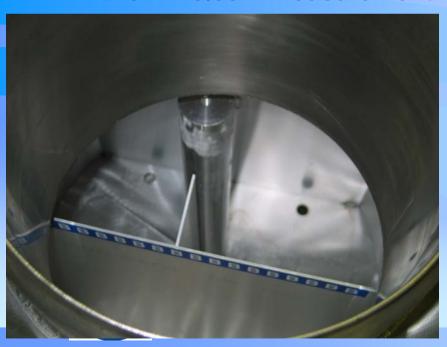
LABS Series Construction - Internal

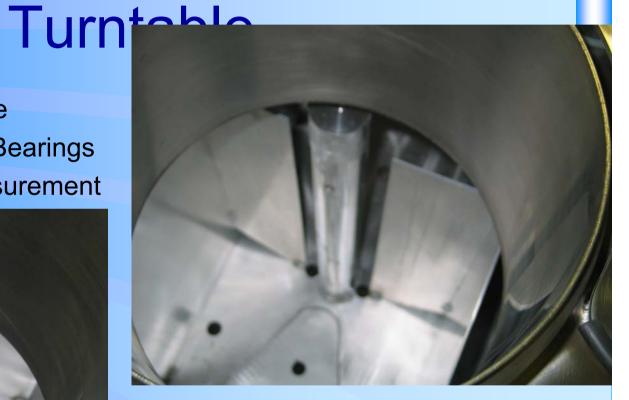
Aluminum - Fins

Easy-Grip Turntable

Internal Pivot - No Bearings

Drain Holes – Measurement



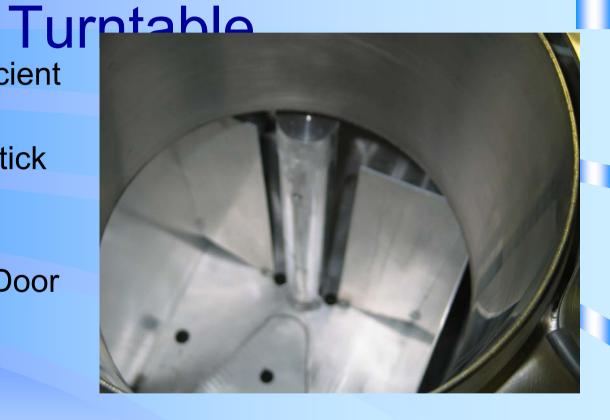




LABS Series Construction - Internal

Internal ICS Efficient Shape

- Easy Find Dip Stick Holes - Along Section
- Hinged Bottom Door







LABS Series Construction - Thermocouple

- Thermocouple TC -187C
- Location 90 DegreesRight of Opening
- Level of Top Rack
- Mounted in Stainless
 Steel Access Tube Candy Cane Swagelock
 Fitting
- Second T/C (Option)

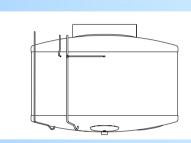






LABS Series Construction - Sensor Assembly

- 4 Sensor Assembly
- Location 90 DegreesRight of Opening
- Inserted in Stainless Steel Tube
- Internal "Tee" for Pressure Equalization



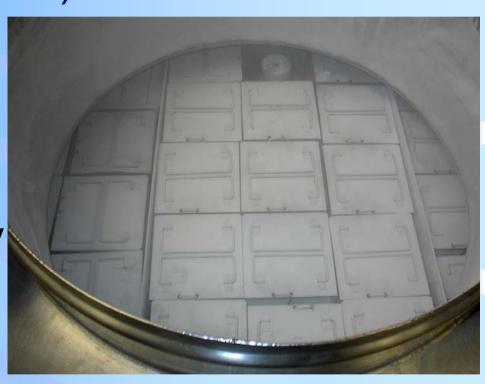






LABS 80K Inventory Control System (ICS)

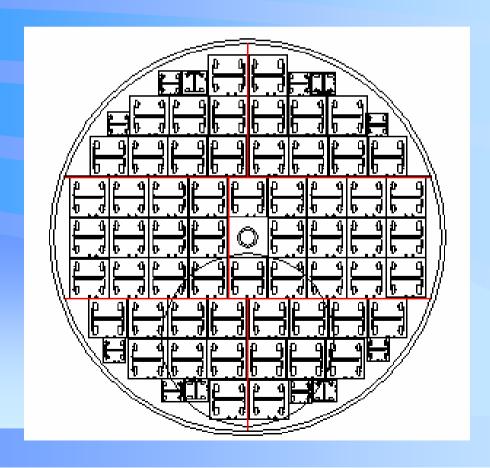
- 58 RACKS 13/2 -100/81 Cell Boxes
- 12 RACKS 13/2 25
 Cell Boxes
- 79,300 Vial Capacity
- 3,2 mm (Nominal)
 Between Racks







LABS 80K Inventory Control System (ICS)
Square Racks

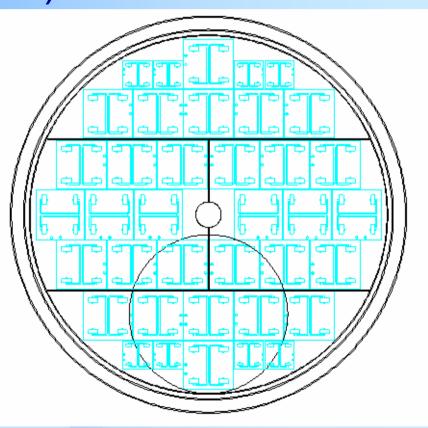






LABS 40K Inventory Control System (ICS)

- 30 RACKS 13/2 -100/81 Cell Boxes
- 8 RACKS 13/2 25
 Cell Boxes
- 41,600 Vial Capacity
- 3,2 mm (Nominal)
 Between Racks

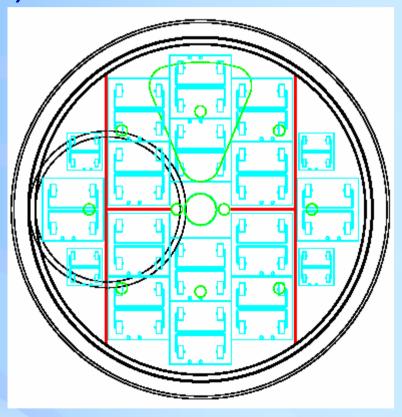






LABS 20K Inventory Control System (ICS)

- 14 RACKS 13/2 100/81 Cell Boxes
- 4 RACKS 13/2 25
 Cell Boxes
- 19,500 Vial Capacity
- 3,2 mm (Nominal)
 Between Racks

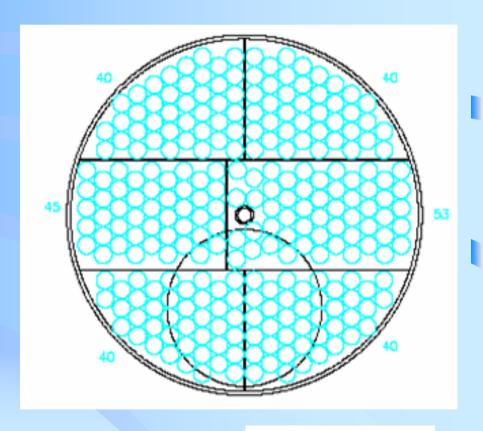






LABS 80K Inventory Control System (ICS)-Straws

- 258 x 5 levels x 350= 451.500 1/2ccstraws
- 258 x 5 levels x 525= 677.250 1/4ccstraws

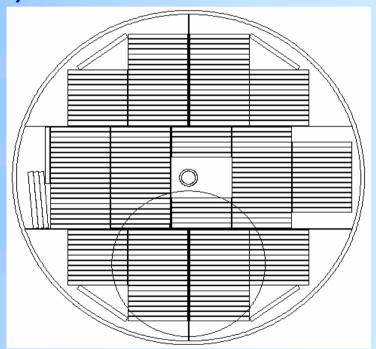






LABS 80K Inventory Control System (ICS)

- Blood RACKS
- Bag Capacity
- (Nominal) 3,2 mm
 Between Racks







LABS Series CryoCon Controls

- Lid Switch
- 24 Month Warranty
- Lid Open Alarm
- Auto Defog
- Quick Chill
- CryoData Compatible
- Simultanous / sequential fill / Gas by pass







LABS Series Transportation

- Crated
- Fork Liftable







LABS Series Maintenance

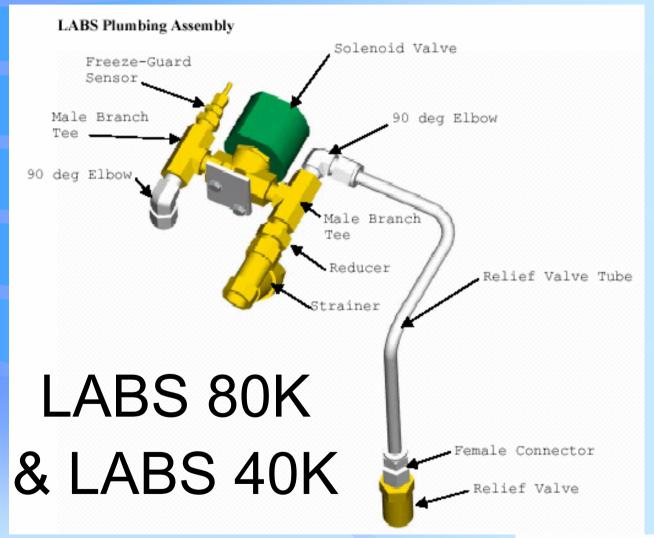
- Easy Access
- Components
 Located at the Front
- Sensor Assembly & Thermocouple -Convenient Access







LABS Plumbing Assembly







LABS Series LABS 80K Container Specs

- Weight Empty 703 kg
- LN2 Capacity Below Turntable - 150 liters
- Factory Set Thermistors
 - Start Fill Thermistor 2
 - Stop Fill Thermistor 3 (Bottom of Turntable)
 - ◆ Fill Distance 4,5 cm

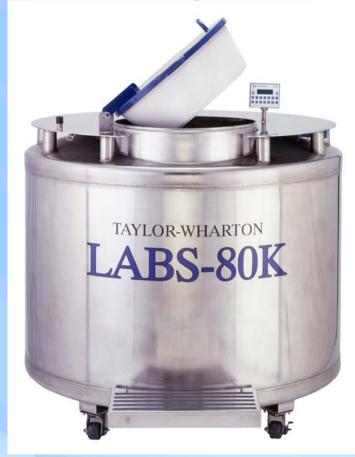






LABS Series LABS 80K Container Specs

- External Operating Height– 1080 mm
- Overall Diameter -1511mm
- Useable Internal Height –
 762 mm
- Usable Internal Diameter 1397 mm
- Neck Diameter 622 mm







LABS Series LABS 40K Container Specs

- Weight Empty 417 kg
- LN2 Capacity Below Turntable - 76 liters
- Factory Set Thermistors
 - Start Fill Thermistor 2
 - Stop Fill Thermistor 3 (Bottom of Turntable)
 - ◆ Fill Distance 4,5 cm

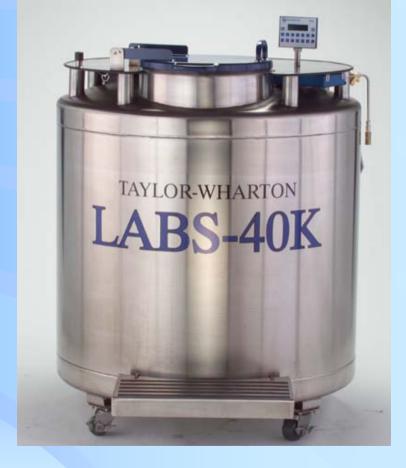






LABS Series Labs 40K Container Specs

- External Operating Height– 1080 mm
- Overall Diameter 1143
 mm
- Useable Internal Height 762 mm
- Usable Internal Diameter
 1029 mm
- Neck Diameter 457 mm







LABS Series LABS 20K Container Specs

- Weight Empty 295 kg
- LN2 Capacity Below Turntable - 46 liters
- Factory Set Thermistors
 - Start Fill Thermistor 2
 - Stop Fill Thermistor 3 (Bottom of Turntable)
 - ◆ Fill Distance 4,5 cm







LABS Series Labs 20K Container Specs

- External Operating Height– 1080 mm
- Overall Diameter 864
 mm
- Useable Internal Height –
 762 mm
- Usable Internal Diameter
 750 mm
- Neck Diameter 330 mm







LABS Series Performance

- LABS 80K NER 8/15
 Liters/Day
- LABS 40K NER 4,5/9
- LABS 20K NER 4/8
- Parameters
 - Liquid to Bottom of Turntable
 - ◆ 48 hour cool down
 - 24 hour period
 - No ICS

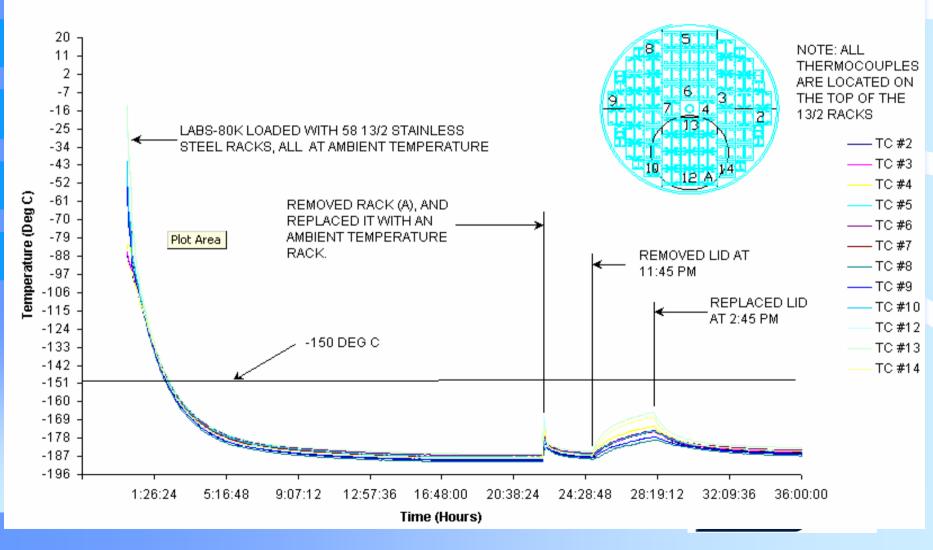






LABS 80K





LABS Series Performance

- LN2 usage/Fill Time Examples
- LABS 40 K, 6' (1,5m) Hose XL240
 - change out every 9/10 days, 10/15 min fill
- 4 * LABS80K, 2 * LABS40K, Manifold 2
 *XL240 on each side
 - change out 2 cylinders every 4/5 days, Non VJ line, seq. Fill, 2,5 bar
- 8 * LABS80K unit on VJ line (liquid full)
 - ◆ 25-35 min to fill a unit





LABS Series Warranty

- Vacuum 5 Years
- Controller 2 Years





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