

# Ultra Low Temperature Freezer

Lab Solution India's new range of ultra low deep freezer is specially designed for faster temperature pull down & optimized cryopreservation. Highly sensitive microprocessor control ensures precise temperature management at -86° degree c.



## Salient Features:

- ✓ Efficient insulation with high core density reduces temperature loss
- ✓ Optimized compressor run ensures energy efficiency
- ✓ Hot line across the door assembly to prevent frost formation
- ✓ Efficient dual cascade refrigeration system ensures fast temperature pull down
- ✓ Triplicate step silicon rubber gasket for complete insulation
- ✓ Independent internal foamed doors
- ✓ USB Port for data logging
- ✓ Audio visual alarms for Temp. High/Low, Power failure, Door open, Compressor On Settable points of Temperature high/low, Adjustable temperature range, High/low temperature alarm point
- ✓ Ambient High- a unique feature which stops all the process of the machine if the room temperature goes beyond the recommended level, this ensures longer life of the machine

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Model	Inner Volume Liters	Compartment Numbers	Inner Doors Numbers	Internal Dimension WxDxH (mm)	External Dimension WxDxH (mm)
LSI-ULDF-200L-86°C	200	2 to 4	1 or 2	600x600x550	800x850x1300
LSI-ULDF-220L-86°C	224	2 to 4	1 or 2	600x600x600	800x850x1350
LSI-ULDF-250L-86°C	250	2 to 4	1 or 2	600x600x675	800x850x1425
LSI-ULDF-300L-86°C	300	2 to 4	1 or 2	600x600x800	800x850x1550
LSI-ULDF-336L-86°C	336	2 to 4	1 to 4	600x600x900	800x850x1650
LSI-ULDF-350L-86°C	350	2 to 4	1 to 4	600x600x925	800x850x1675
LSI-ULDF-380L-86°C	380	2 to 5	1 to 4	600x600x1000	800x850x1750
LSI-ULDF-420L-86°C	420	2 to 5	1 to 4	600x600x1125	800x850x1875
LSI-ULDF-450L-86°C	450	2 to 5	1 to 5	625x600x1150	825x850x1900
LSI-ULDF-480L-86°C	480	2 to 6	1 to 5	650x650x1087	850x900x1850
LSI-ULDF-500L-86°C	500	2 to 6	1 to 5	675x675x1050	875x925x1800
LSI-ULDF-600L-86°C	600	2 to 6	1 to 5	750x750x1025	950x1000x1800
LSI-ULDF-700L-86°C	700	2 to 6	1 to 5	750x750x1200	950x1000x1950
LSI-ULDF-800L-86°C	800	2 to 6	1 to 5	750x750x1358	950x1000x2100
Minimum temperature (in AC room)			-86 Degrees		
Type of Cabinet			Vertical		
Insulation			CFC Free Polyurethane Foam		
Temperature control			Microprocessor with PT-100 sensor		
Display			7" Touch Screen		
Pull down time			5.2 hours		
No. of Compressors			Two		
Temperature Uniformity			±3°C or less		
Temperature Stability of system			±3°C		
Door open alarm			Audio visual alarm		
Alarms			Audio/Visual for temp. deviation, power failure		
Data Logging			Through USB		
Internal body material			SS 304		
External Body Material			Powder coated CRCA sheet		
Noise level			Less Than 65 db(A)		
Battery backup			Back Up 8 hrs (for alarm & temperature recorder)		
Decompression			Through valve		
Ground Clearance			100 mm		
Castors			Heavy duty lockable		
Electrical			220-240 volts, 50 Hz, Single Phase		

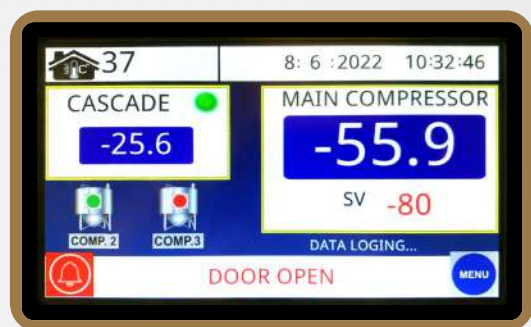
\* This is a standard product brochure and specifications may change as per buyer's requirements

\*\* Number of inner doors and compartments are subject to requirement of the buyer

\*\*\* Due to constant R&D, product appearance/some of the features may change

### Touch Screen Display

- 7" Multicolored touch screen with user interface
- Displays temp, alarms, date & time
- Data logging with multiple option & transfer via Ethernet, USB port
- PLC (Programmable logic controller) with internal memory of 1500 records
- Battery backup for display, alarms & off-line data logging
- Password protected settings for system control & notifications
- Onscreen access for data logs, temperature graph, system status, troubleshooting, etc.



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