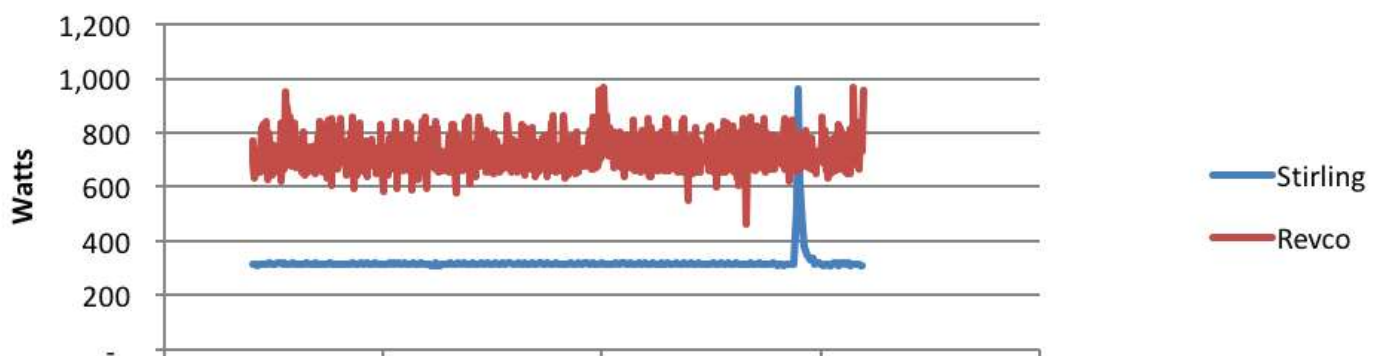


ULTRA LOW TEMPERATURE FREEZERS

ULTRA - 3054



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

Analytical Ultra-low Temperature Freezers are elegantly designed with the best quality refrigeration system to meet the elevated standards of performance and controlled temperature storage needs of the pharmacy, medical, industry, biotech and clinical applications. The kind of uncompromising and biologically dormant cold you'd expect added with finest levels of quality construction and reliability, Analytical offers the highest standards and the greatest dependability for the most demanding environments.

Analytical upright freezers represent the industry's most advanced combination of cabinet design, electronics, refrigeration and critical components for enhanced security, better performance, product safety up to -40°C. Analytical preservation systems employ advanced technology to insure a high precision temperature environment. The refrigeration system and sound abatement feature minimizes intrusive operating noise. The back cover and placed components in the refrigeration compartment provide superior air flow to drastically reduce the stress to the freezer and contributing to excellent durability. Independent and insulated inner doors ensure maximum interior chamber uniformity at all shelf levels.

►► **CAPACITY :**

- Standard : 480 Liters / 16 Cu. Ft .
- External Dimensions : 32" x 32" x 70" (approx.)
- Custom capacity available on demand.
- Weight : 250 Kgs. (approx).
- Internal Dimensions : 24" x 24" x 52" (approx.)

►► **TEMPERATURE RANGE :**

- - 20 °C to - 40 °C with 1 °C increment.

►► **EXCLUSIVE STANDARDS :**

- Micro-processor based digital temperature control system.
- Audio-visual high & low temperature alarms.
- Accurate temperature control and holdover capability.
- Separate insulated inner doors to prevent cold loss.
- The unit capable of operating continuously in ambient temperature of 35 °C relative humidity of 15-90%.
- Digital LED/LCD display of set & process temperature.
- Excellent temperature stability and homogeneity.
- Dual air-cooled compressors.
- Heavy duty superior cascade refrigeration system.
- Backup for Control Panel.
- Voltage safety system (Stabilizer).

►► FEATURES SELECTION (On Extra Cost) :

- LN2/CO2 backup system port.
- Standby Refrigeration System.
- Printer port for temperature data print.
- Rechargeable battery backup for alarm system.
- Automatic Defrost System
Rechargeable battery backup for control panel.
- Cryo Boxes.
- Cryo Gloves.
- TFT touch screen based temperature control, monitoring & recording system with temperature data records (365 days data recording) in tabular & graphical formats on screen. USB (pen drive) & PC interface for data download. Optional printer port for temperature data print.

►► TYPE SELECTION :

- Upright/Vertical Type.

►► PRODUCTS FEATURES :

1. Analytical insulation panel cabinet construction for high insulating value and increased interior volume in the same footprint. The Freezer minimizes energy transfer to and from the ultra-low temperature interior. The composite construction, complete with reflective barrier film and structural closed-cell foam, is used on all walls and the outer door. This advanced insulation technology offers structural stability to eliminate distortion, and inhibits moisture accumulation that can lead to icing. Aggregate insulation efficiency minimizes compressor cycle run-time to lower energy costs.

2. Easy-In/Easy-Out door latch for smooth, one-handed operation, positive seal against gasket. Key lock provision standard.

3. Universal keyed door lock offers added security.

4. Integrated, microprocessor-based control system and LCD display information center includes comprehensive setpoint, alarm .

5. Insulated and gasketed inner doors seal inside to offer additional protection, improve uniformity. Inner door latches are standard.



6. Air-cooled Super Condenser energy transfer technology maintains optimum condenser air flow and eliminates the need for an air filter or periodic cleaning and maintenance.
7. High impact, recessed casters and leveling feet simplify installation.
8. Seismic restraints secure cabinet to building superstructure to meet local codes.
9. Analytical designed Cool Safe compressors are specifically designed for autocascade applications.
10. CFC-refrigerants are highly efficient, environmentally safe, non-ozone depleting.

►► **TEMPERATURE CONTROL :**



The unit is fitted with a digital electronic temperature controller cum indicator for easy readability along with audible alarm system. The freezer is designed for accurate temperature control and holdover capability. The electronic management system to preset temperature and set as required.

►► **ALARMS :**

Battery operated audio alarms during electric failure are usually incorporated in all the models of Analytical Ultra Low temperature Freezer. Based on user requirements and selections provision for high and low alarm systems and visual alarm systems are also offered.

►► **CABINET CONSTRUCTION :**

Maintains the standards with forward thinking design and technology with finest levels of quality construction. Designed detail by detail with Attractive Color and Ergonomic Design in addition to pass-thru dimensions that fit through standard doorways Analytical Ultra-low Temperature Freezers are second to none than the best.

Outer Panels	Solid outer is made of galvanized steel sheet finished with bacteria resistant coating (Epoxy Coated).
Interior	Stainless steel (SS-304) interior for rust-free environment and easy cleaning/disinfect. Durable Stainless Steel interiors aid in maintaining temperature and makes cleaning easy providing hygienic conditions and great sturdiness.
Insulation	150 mm thick and made from high-pressure polyurethane foamed in-place which delays temperature rise in the event of power failure.
Door	Standard front hinged Single door with stainless steel panel & double gasket seal between the door and the cabinet increases system efficiency.
Door Handle	Ergonomically designed “easy grip” door Handle.
Locks	Standard key lock.
Castors	Castor wheels for easy movement along with level adjusting facility.
Compartments	Individual Five Compartments with inner doors made up of stainless steel.

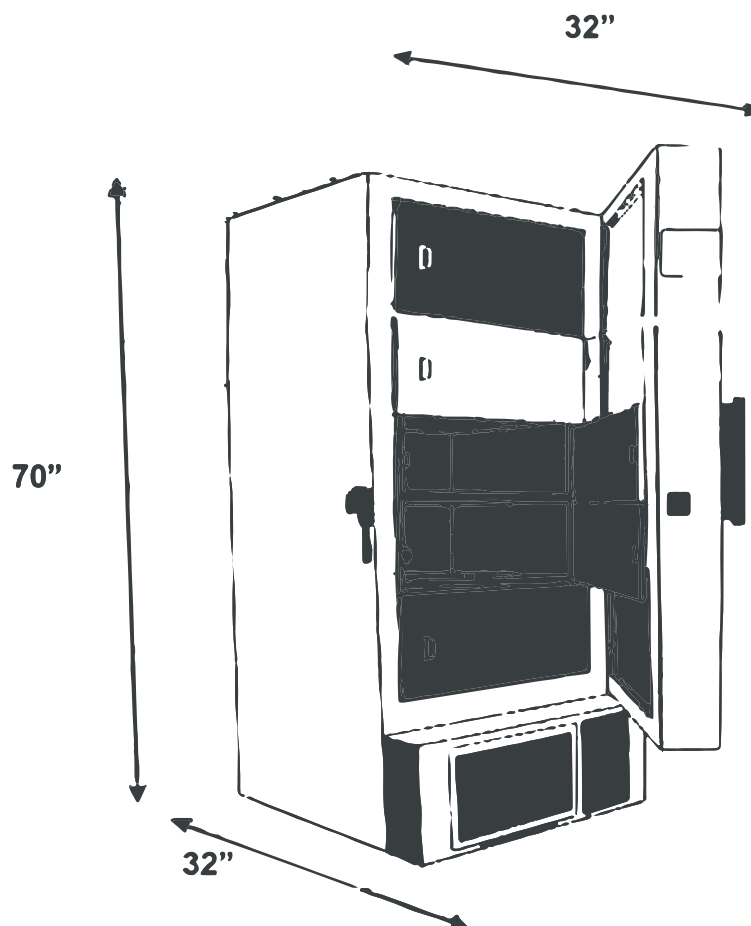
►► REFRIGERATION :

Strong and reliable with powerful quick response refrigeration, an exclusive long life superior refrigeration process is an unique feature of Analytical Ultra-low Temperature Freezers.

Compressor	CE Marked, Heavy duty dual compressors. The low stage compressor cycles off when the set point temperature is reached and the high stage compressor runs continuously enabling reduced power consumption, extends life, protects the thermal overload system, decreases noise levels and provides dependable and stable cooling. The compressor is distinguished by its excellent performance, low noise level and minimal vibration.
Condenser	Highly efficient condenser with automatic condensate evaporating system. Powerful condenser fan and aerodynamically shaped fan blades. Copper tubing with High side fin tube and low side shell tube design.

Evaporator	Tube on sheet type. Cooling-coils-in-the shelf design with cooling coils in direct contact with sample provides rapid freezing, improved sample temperature uniformity.
Refrigerant	Non-CFC & Non-HCFC environmental friendly refrigerant. Cyclomatic System
Oil Separator	Oil separator effectively separates the lubricant oil from refrigerant.
Power supply	Power supply

480 Liters / 16 Cu. Ft



- External Dimensions : 32"x 32"x 70" (Approx.)
- Internal Dimensions : 24"x 24"x 52 (approx.)

DIMENSIONS SUBJECT TO CHANGE / APPROVAL
DIMENSIONS TO BE CUSTOMIZED AS PER USER REQUIREMENTS

►► Servicing, Validation, Trainings and Preventive Maintenance :

Servicing	: We have team of service engineers who can attend to any make of instrument promptly @the most affordable cost.
Trainings	:We also take up preventive maintenance to reduce downtime of instrument's Trainings.
AMC's/CMC	: We offer user training both in-House and at customer sites on instrument principles, operations, troubleshooting.
Validations	: We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA norms.
Instruments	: We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



►► About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

►► Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



Liquid Partical
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
CLIA



NOVA-2100
Chemistry Analyzer



PCR/Gradient PCR/
RTPCR



TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

►► Regulatory compliances



►► Corporate Social Responsibility

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

►► Reach us @



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