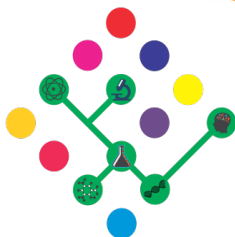


ULTRA LOW TEMPERATURE FREEZERS

IG-ULF Series



IGENE LABSERVE

Innovative • Interactive • Intuitive

*HMI in display image is for representation purpose only and is an optional feature

FEATURES & SPECIFICATIONS

DESCRIPTION

IG-ULF Series freezers provides an ideal freezing environment for advanced medical and industrial applications. These freezers offer unrivalled cold storage protection for valuable samples and materials and maintain internal temperature of -80°C. The refrigerators are equipped with auto defrosting device with highly efficient microprocessor for ease of operation with minimum space. These are widely used in scientific research labs for long term storage of critical samples, offering exceptional temperature uniformity with excellent sample protection.

FEATURES

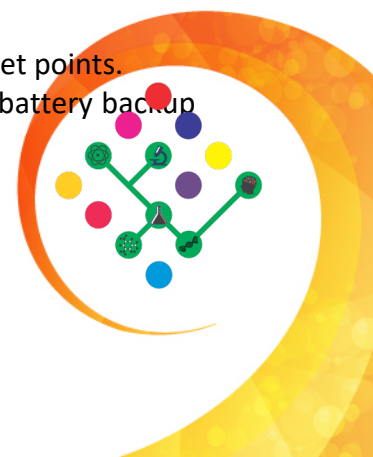
- ❖ High-tech construction combines panel insulation with environmental-friendly, water-blown foam insulation for maximum sample-to-vial footprint storage.
- ❖ Environmental-friendly, CFC/HCFC free refrigerants.
- ❖ Power management system protects against a wide range of voltage variation and is easily accessible through the touch-screen display.
- ❖ Microprocessor based control system.(HMI+PLC optional)
- ❖ Defrost cycle can be initiated to shut down the compressor and keep the cabinet defrost free.
- ❖ Ergonomic and easy to use.
- ❖ USB ports for PC connectivity in HMI PLC
- ❖ RS 232/485 connectivity can be provided if required
- ❖ CFC/HCFC-free refrigerants maximize cooling and minimize environmental impact
- ❖ Chart recorder for better temperature monitoring (optional)
- ❖ Corrosion resistant interior and exterior.
- ❖ Incident monitor provides visual and audible warnings of system abnormalities for increased sample protection.
- ❖ Digital display and direct settings for maintaining desired operations.
- ❖ Castors for ease of movement.
- ❖ Lockable hinged doors.

Applications

- ❖ Biotechnology
- ❖ Clinics / University Hospitals
- ❖ Pharmacy Industry
- ❖ Basic Research / Research Institutes
- ❖ Blood-Banking

ALARM SYSTEMS

- ❖ Power failure or temperature deviation triggers audible and visual warning.
- ❖ Automatic Incident Monitor identifies temperature deviation beyond alarm set points.
- ❖ System includes adjustable safety alarm with automatic, continuous charge battery backup and digital battery indicator



CONSTRUCTION DETAILS

iGene Labserve Ultra Low Deep Freezer is double walled cooled units. Outer body of our laboratory refrigerators are constructed out of thick PCRC, pre coated corrosion resistant GI sheet duly pre-treated with primers and rust proofing and painted with long lasting stove enamel or elegantly powder coated. The inner construction is made of stainless steel sheet-304. The 100 mm gap between the walls is filled high grade polyurethane insulation, which ensures maximum thermal efficiency.

Cooling An energy efficient cooling unit is installed in our freezer. We use high end CFC free compressors, conforming to latest international standards and guidelines.

Cooling medium Air cooled CFC free refrigerants.

Temperature Range Temperature range is -40 Deg C to -80 Deg C controlled by nanotechnology based microprocessor temperature controller.

Temperature accuracy is +/- 1°C or better.

Model No.	Dimension (LxDxH)	Capacity (Liters)
IG-216ULF	24" x 24" x 24"	216 L
IG-270ULF	24" x 24" x 30"	270 L
IG-324ULF	24" x 24" x 36"	324 L
IG-405ULF	24" x 30" x 36"	405 L
IG-500ULF	30" x 30" x 36"	500 L
IG-600ULF	30" x 30" x 42"	600 L



Temperature range	-40° C to -80°C
Temperature accuracy	±0.5°C
Temperature Uniformity	±0.1°C
Temperature controller	Dual display PID controller
Temperature sensor	PT100
Inner chamber	SS 304
External cabinet	Powder coated GI sheet
Insulation	PUF
Door	Insulated door Mechanical latch / clamp
Heaters	Resistance wire heaters
Shelves	SS wire mesh (removable)
Standard fittings	Mains on/off switch Load Indicator Fan on/off switch
Power supply	220 Volts 50Hz
Optional	GMP construction (Inner & outer SS304) PLC + HMI controller w/ USB interface 21 CFR Part 11 software Data logger w/ USB interface Thermal printer Inner chamber LED light