

Ultra Low Freezers

ULF Series

Temperature range -40°C to -85°C / -40°F to -121°F
-40°C to -80°C / -40°F to -112°F

Style Chest (Horizontal) Upright (Vertical) Undercounter

1 ULF SERIES CHEST AND UPRIGHT ULTRA LOW FREEZERS

■ Features

- Digital temperature control with dual display and adjustable temperature range. Scan button for setting temperature and tamper proof lockout
- Quick pull-down to operating temperature with efficient and reliable cascade refrigeration. Two large hermetic compressors ensure rapid pull-down of product load. Because of the unique design of the freezers, the pressure in the refrigeration system is held very low, eliminating excessive heat build up. This low pressure allows the freezer to operate efficiently, extending compressor life.
- Compressor life is extended by an energy-saving low stage which operates only on demand.
- Compressors are protected with a constant flow of refrigerant
- Heat is efficiently and effectively dissipated by an air-cooled condenser with two heavy-duty fans. Condenser requires no liquid coolant
- Freezer has automatic timer system that restarts unit in case of power failure
- Frost and ice build-up along the gasket is minimized by a heater harness located beneath the channel
- CFC-Free R-508B and R-404A refrigerants

■ Primary Uses

- Clinics
- Research
- Small laboratories
- Hospital rooms
- Medical clinics

■ Common Specifications

| | |
|---------------------------------|--|
| Temperature control system | Digital control displays set point and chamber temperature |
| Digital alarm system with relay | Battery operated alarm system will emit an audible and visual signal when there is a mechanical or electrical failure. Alarm has over and under temperature setting, alarm silencing switch, and battery test switch. Also provided is a relay for remote alarm hook-up. |
| Refrigeration system | Cascade type - Two hermetic compressors. CFC & HCFC free refrigerants |
| Construction | Chamber is 14-ga. zinc coated galvanized steel. Exterior is 16-ga. steel. Powder coated cool gray finish. |
| Electrical requirements | 115V, 60 Hz, 1 phase 208V, 60 Hz, 1 phase 230V, 60 Hz, 1 phase 220V, 50 Hz, 1 phase 220V, 60 Hz, 1 phase |
| Optional accessories | Chart recorder, CO ² and LN ² back-up system, Racks, Cold safety gloves |

■ Unique Specifications for CHEST TYPE (HORIZONTAL) Ultra Low Freezers - Top Opening

| Model | Capacity | | Rack Capacity | Temp. Range | Internal Dimension | | External Dimension | |
|---------|----------|---------|---------------|----------------------------------|--------------------|---------------|------------------------|----------------|
| | Liters | Cu. ft. | | | Inch | Centimeter | Inch | Centimeter |
| ULF001C | 56 | 2 | 6 | -40°C to -85°C / -40°F to -121°F | 17" x 14" x 14" | 43 x 35 x 35 | 25.25" x 25.75" x 40" | 64 x 65 x 101 |
| ULF101C | 83 | 3 | 8 | -40°C to -85°C / -40°F to -121°F | 24" x 12" x 18" | 60 x 30 x 45 | 34.5" x 25.25" x 48" | 87 x 64 x 121 |
| ULF201C | 142 | 5 | 15 | -40°C to -85°C / -40°F to -121°F | 30" x 18" x 16" | 76 x 45 x 40 | 40.5" x 31" x 47" | 102 x 81 x 119 |
| ULF301C | 255 | 9 | 16 | -40°C to -85°C / -40°F to -121°F | 46" x 16" x 20" | 116 x 40 x 50 | 57.5" x 29" x 46.5" | 146 x 73 x 116 |
| ULF401C | 340 | 12 | 27 | -40°C to -85°C / -40°F to -121°F | 55" x 19" x 20" | 139 x 48 x 50 | 65.5" x 32" x 47.5" | 166 x 81 x 120 |
| ULF501C | 400 | 14 | 30 | -40°C to -85°C / -40°F to -121°F | 62" x 20" x 20" | 157 x 50 x 50 | 72.5" x 33" x 47.5" | 184 x 83 x 120 |
| ULF601C | 480 | 17 | 36 | -40°C to -85°C / -40°F to -121°F | 69" x 20" x 21" | 175 x 50 x 53 | 81.25" x 33.5" x 48.5" | 206 x 85 x 123 |
| ULF701C | 594 | 21 | 36 | -40°C to -80°C / -40°F to -112°F | 81" x 21.5" x 21" | 205 x 54 x 53 | 91" x 36" x 49" | 231 x 91 x 124 |
| ULF801C | 626 | 22 | 36 | -40°C to -85°C / -40°F to -121°F | 67" x 19" x 30" | 170 x 48 x 76 | 98" x 36" x 43.5" | 248 x 91 x 110 |
| ULF901C | 766 | 27 | 48 | -40°C to -80°C / -40°F to -112°F | 67" x 23" x 31.25" | 170 x 57 x 79 | 98" x 36" x 43.5" | 248 x 91 x 110 |

CHEST TYPE (HORIZONTAL) Ultra Low Freezers - Top Opening



56L
ULF001C



83L
ULF101C



142L
ULF201C



340L
ULF401C



480L
ULF601C



766L
ULF901C

■ Unique Specifications for UPRIGHT TYPE (VERTICAL) Ultra Low Freezers

| Model | Capacity | | Rack Capacity | Shelving | Temp. Range | Internal Dimension | | External Dimension | |
|---------|----------|---------|---------------|----------------------------------|-------------------------------------|----------------------|----------------|---------------------|----------------|
| | Liters | Cu. ft. | | | | Inch | Centimeter | Inch | Centimeter |
| ULF401U | 370 | 13 | 15 | 4 adjustable (5 compartments) | -40°C to -85°C / -40°F to -121°F | 20" x 22" x 51.25 | 50 x 55 x 130 | 35" x 34.5" x 79.5" | 88 x 87 x 201 |
| ULF501U | 505 | 18 | 20 | 4 adjustable (5 compartments) | -40°C to -85°C / -40°F to -121°F | 23" x 26" x 51.25" | 58 x 66 x 130 | 40" x 36" x 79.5" | 101 x 91 x 201 |
| ULF601U | 626 | 22 | 25 | 4 adjustable (5 compartments) | -40°C to -85°C / -40°F to -121°F | 28.5" x 26" x 51.25" | 72 x 66 x 130 | 43" x 37" x 79.5" | 109 x 93 x 201 |
| ULF701U | 710 | 25 | 30 | 4 adjustable (5 compartments) | -40°C to -85°C / -40°F to -121°F | 34" x 25" x 51.25" | 86 x 63 x 130 | 50" x 37" x 79.5" | 127 x 93 x 201 |
| ULF801U | 792 | 28 | 30 | 4 adjustable (5 compartments) | -40°C to -80°C / -40°F to -112°F | 38" x 25" x 51.25" | 96 x 63 x 130 | 54" x 37" x 79.5" | 137 x 93 x 201 |
| ULF901U | 877 | 31 | 35 | 4 fixed (5 compartments) | -40°C to -80°C / -40°F to -112°F | 42" x 25" x 51.25" | 106 x 63 x 130 | 60.5" x 37" x 79.5" | 153 x 93 x 201 |



370L
ULF401U



505L
ULF501U



710L
ULF701U



877L
ULF901U

2 ULF SERIES UNDERCOUNTER MINI-CHEST ULTRA LOW FREEZERS

Common Specifications

| | |
|----------------------------|--|
| Temperature range | -40°C to -85°C / -76°F to -121°F |
| Temperature control system | Digital data logging. Battery back-up, Hi/Low alarm. |
| Clearance | 4" on sides and back. |
| Alarm system | Battery operated alarm system will emit an audible and visual signal when there is a mechanical or electrical failure. A relay for a remote alarm hook-up is also provided |
| Doors | Single solid, locking |
| Legs | Four, leveling |
| Evaporator | Cold wall |
| Defrost | Manual |
| Insulation | Polyurethane CFC Free. |
| Electrical requirements | 115V, 60 Hz, 1 phase |
| Supply plug | NEMA 5-15P ETL listed |

Unique Specifications for UNDERCOUNTER Ultra Low Freezers

| Model | Capacity | | Internal Dimension | | External Dimension | |
|----------|----------|---------|-----------------------|--------------|-----------------------|-----------------|
| | Liters | Cu. ft. | Inch | Centimeter | Inch | Centimeter |
| ULF001UN | 7 | .25 | 5.75" x 5.5" x 12" | 15 x 14 x 31 | 15.75" x 25" x 26.25" | 40 x 60 x 66 |
| ULF101UN | 54 | 2 | 14" x 18" x 12.5" | 35 x 45 x 31 | 23" x 27" x 32" | 58 x 68 x 81 |
| ULF201UN | 94 | 3 | 14" x 19.25" x 20.75" | 36 x 49 x 53 | 37.5" x 28.5" x 32" | 95.25 x 72 x 81 |



7L
ULF001UN



54L
ULF101UN



94L
ULF201UN