UPRIGHT ULTRA-LOW FREEZER

UCF-20.8-86-UL

20.8 Cu Ft -86°C Upright Ultra-Low Freezer with Touch Screen

Cascade refrigeration with two SECOP hermetic compressors and HC refrigerants holds -40°C ~ -86°C in a 588 L stainless steel interior. A 7" LCD touch screen, USB data download, remote alarm access, and a 72 h alarm battery backup help protect vaccines, enzymes, cell lines, and long-term research specimens.

- **Cascade refrigeration.** Two SECOP hermetic compressors with R-290 and R-170 refrigerants.
- **Touch screen control.** 7" LCD touch screen with microprocessor controller and authorization mode.
- **Built-in data logging.** USB download of the recent 10000 temperature records at 5min or 15min intervals.
- **Broad alarm coverage.** High/low temperature, power failure, door-ajar, and more, with 72 h backup.
- **Organized storage.** 3 adjustable stainless steel shelves at 40kg/shelf and PURF + VIP insulation.

MODEL UCF-20.8-86-UL



-86 to -40 °C	588 L	3	16	40,000
TEMPERATURE RANGE	STORAGE CAPACITY	ADJUSTABLE STAINLESS SHELVES	STORAGE RACKS (5×5)	2 ML SAMPLE CAPACITY

Technical Specifications

Model **UCF-20.8-86-UL**

TEMPERATURE

Temperature range	-40°C ~ -86°C
Recommended setting	Between -70°C and -80°C
Factory default	-80°C
Cooling performance	Cabinet center -86°C (ambient 32°C, no-load)
Ambient temperature	10°C ~ 32°C

REFRIGERATION

System	Cascade system, direct cooling
Compressors	SECOP / 2, hermetic type
Refrigerant	HC (R290 & R170)
Defrost	Manual

CONTROLS AND ALARMS

Controller	Microprocessor, 7" LCD touch screen
Alarms	High/low temperature, power failure, abnormal voltage, sensor error, door-ajar, filter screen check, thermostat failure, low battery, condenser clean, high ambi
Alarm backup	72 h; lead-acid cell, DC12V, 7000mAh
Remote alarm	RS232 / 485
Data	USB download of recent 10000 temperature records

CABINET

Exterior / interior	Color sprayed steel / SUS304
Inner doors	Foamed SUS304 / 2
Insulation	PURF + VIP
Shelves	3 adjustable stainless steel, 586 × 689 mm, 40kg/shelf
Rack capacity	16 racks (5×5), 400 2-inch boxes

ELECTRICAL

Power supply	110V / 120V 60Hz
Power	690 W
Current	8.33 A
Energy use	14.85 kWh/24h

DIMENSIONS

Exterior (W×D×H)	35" × 45.5" × 78.5" (891 × 1155 × 1994.5 mm)
Interior (W×D×H)	23.8" × 29" × 51.6" (606 × 738 × 1310 mm)
Net weight	786 lb
Shipping weight	786 lb

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	ELECTRICAL
UCF-20.8-86-UL	20.8 Cu Ft -86°C Upright Ultra-Low Freezer -40°C ~ -86°C, 588 L SUS304 interior	110V / 120V 60Hz 690 W, 8.33 A

IDEAL APPLICATIONS

Vaccines · Enzymes · Cell lines · Research specimens · Pharmaceutical · Clinical & hospital labs

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