Biomedical

ULTF-37i

ULTF-37i

-20°C to -86°C Ultra Low temperature freezer

With the smallest footprint, this unit is perfect for storing biomedical content in a room with limited space. The unit can be place on a table for easy access in your work environment.

Featuring the ETR-System™ (*Extended Temperature Range*) the unit can operate within -20°C to -86°C, giving you flexibility to adjust the cooling to your specific needs, or to save energy reducing both operation costs & carbon emission. Our biomedical appliances offer a reliable solution for users seeking industry leading cooling performance and high operation stability.

- **Complexity made simple**
- **Adaptive Cooling Technology™**
- **Info center**

ULTF-37i | Gallery

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Construction	Value
Dimension	631x630x675 mm
Dimension inner	433x439x271 mm
Weight	70 / 59 gross/net
Package weight	11 kg
Material inner cabinet	Stainless steel Kg. gross/net
Material outer cabinet	Painted steel Kg. gross/net
Insulation type	Polyurethane with cyclopentane
Insulation thickness	80 mm
Type of packaging	Cardboard, EPS, vinyl bag, wooden pallet
Mobility	4 x adjustable feet

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Storage ULT	Value
Volume	37 / 37 Gross/net
Cryoboxes "2	33
2 ml vials	3.300

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Features	Value
Lock	✔
LED light	✔
Battery backup	✔
Porthole	✔
Porthole size	20 mm
Dry contact	✔
Door reversibility	➖
Vacuum valve	✔
VIP (Vacuum Insulated Panel)	✔

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Alarms	Value
High / Low temperature	✓
Open door	✓
Power failure	✓
Probe failure	✓

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Test	Value
Voltage	220 V
Frequence	50 / 60 Hz
Max ambient	43 °C
Max Humidity	65 %
Test condition	20

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Operation	Value
Temperature range	-20 to -86 °C
Unifromity in performance	2,5 °C
Pull dowm time (from test condition to fabric setpoint)	84 Minutes
Hold over time (from fabric SP to critical point)	105 Minutes
Noise	46 dB
Energy 24 hours	3,2 kWh/24h
Energy year	1186 kWh/anno
Instant Power Consumption	PD 0,550 - 0,300 / Stable 0,270 kW
Heat Rejection	306 W
K-Value	0,19 W/m^2k

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Cooling components	Value
Refrigerant/amount	Nature R 2 / 96 Type & gram
Number of compressors	1
Variable speed compressor	✓
Internal air distribution (Type)	Static
Evaporator fan	⊖
Condensor fan	✓
Number of probes	2
Defrost	⊖

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Controller	Value
Controller	i-CARE
Controller type	
USB Connection	Yes
Data connection	MODBUS
Controller abilities	Logging of data & alarms, touch screen
Controller languages	EN, DE, FR
Log numbers	More than a year
Temperature graph in controller	✓