

Biomedical

F-427i






F-427i

-5°C to -25°C Freezer

Our upright design is a great choice when you need a storage solution for larger quantities.

Featuring the ETR-System™ (*Extended Temperature Range*) the unit can operate within -5°C to -25°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**



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Construction	Value
Dimension	2002x595x642 mm
Dimension inner	1827x475x495 mm
Weight	91 / 87 gross/net
Package weight	14 kg
Material inner cabinet	ABS Kg. gross/net
Material outer cabinet	Painted steel Kg. gross/net
Insulation type	Polyurethane with cyclopentane
Insulation thickness	50 mm
Type of packaging	Cardboard, EPS, vinyl bag, wooden pallet
Mobility	4 x Adjustable feet

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Storage	Value
Volume	427 / 361
Shelves	5
Half shelf	1

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Features	Value
Lock	✓
LED light	✓
Battery backup	✓
Porthole	✓
Porthole size	20 mm
Reference bottle	—
Door closure	✓
Door reversibility	—
Automatic hold 90°	✓
Vacuum valve	✓

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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	35 °C
Max Humidity	65 %
Test condition	20

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Operation	Value
Temperature range	-5 to -25 °C
Unifromity in performance	2,2 °C
Pull down time (from test condition to fabric setpoint)	80 Minutes
Hold over time (from fabric SP to critical point)	54 Minutes
Noise	40 dB
Energy 24 hours	3,9 kWh/24h
Energy year	1423 kWh/anno
Instant Power Consumption	PD 0,3 / Stable 0,27 kW
Heat Rejection	404 W
K-Value	0,44 W/m ² k

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Cooling components	Value
Refrigerant/amount	R290 / 55 Type & gram
Number of compressors	1
Variable speed compressor	✓
Internal air distribution (Type)	Dual air stream
Evaporator fan	✓
Condensor fan	✓
Number of probes	2
Defrost	✓

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Controller	Value
Controller	i-CARE
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	✓

