

R-427i BIOMEDICAL REFRIGERATOR

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





DIMENSIONS	VALUE
Outer Dimension HxWxD	2002x595x642
Inner Dimension HxWxD	1827x475x495
Weight Gross/Net, kg	88 / 74
Material inner cabinet	ABS
Material outer cabinet	Painted Steel
Insulation thickness	50
Insulation type	Polyurethane with Cyclopentane
Air distribution	Dynamic
Mobility	Standard: Adjustable Feet - Option: Castors
Refrigerant, Type / gram	R600a / 60
Variable Speed Compressor	Yes - Adaptive Cooling Technology
Number of probes	4
CONTROLLER	VALUE
Controller	i-Care, Touch screen
Controller language	EN, DE, FR
USB Connection	Yes
Logging	Data, Alarms & Events
Temperature graph	Yes
High/Low temp. Alarm	Yes
Open door alarm	Yes
Probe failure alarm	Yes
Power failure alarm	Yes
	168
STORAGE	VALUE
Volume, Gross/Net, L	427 / 361
Shelves, Full/Half	5/1
Shelf material	Perforated Alu
onon material	i enorated Aid
FEATURE	MALLIE
FEATURES	VALUE
Lock	Yes
LED light	Yes
Battery Backup for Controller, 24h	Yes
Safety Thermostat	Yes
Porthole	Yes - Ø 20 mm
Dry Contact	Yes
Reference bottle	Yes
Door	Solic
Door Features	Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility	Yes





BIOMEDICAL

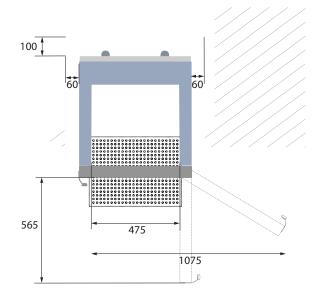
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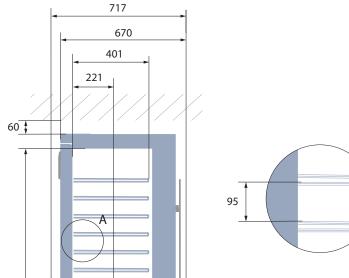
Voltage/Frequency	Voltage/Hz	230V/50-60H
Max Ambient	°C	35°
Max Humidity	% rh	75
PERFORMANCE	UNIT	VALUI
All data in RT20°C		
Temperature Range	°C	2 to 2
Uniformity in performance - difference between top and bottom	°C	+/- 1
Pull down time	Minutes	58 min to 6°
Hold over time	Minutes	90 min to 10°
Noise	dB	4
Energy 24 hours	kWh/24h	0,438 kWh/24h set 5°
Energy year	kWh/year	159,9kWh/y set 5%
Instant Power Consumption	kW	PD 0,075/Stable 0,02
Heat Rejection	W	(
U-Value	W/m^2 K	0,4
COOLING COMPONENTS		VALUI
Refrigerant/Amount (gram)		R600a/60g
Number of compressors	pcs	
Varibel speed compressor	Yes/No	Υe
Internal air distribution (type of)		Dual Air Strear
Evaporator Fan	Yes/No/Variable	Ye
Condenser Fan	Yes/No/Variable	Λ
Number of probes	pcs	
Defrost	Yes/No	Yes - automati
FEATURES		VALUE
Safety thermostat	y/n/optional	VALU
Lock	y/n/optional	Ye
	y/n	Ye
LED light	y/n y/n/optional	Ye
Battery Back Up For Controller Porthole	y/n/optional y/n-Ømm	Yes - 24
	y/n-omm	Yes - Ø 20mr
Dry contact Castors	y/n y/n/optional	Y€
		Option
Door	glass/solid	Soli
Reference Bottle	y/n/optional	Ye
Door closure	y/n/optional	Ye
Door reversibility	y/n	Ye
Automatic Hold 90°C	y/n	Ye
Vacum ventil + VIP (Vacum panel)	y/n	N



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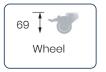






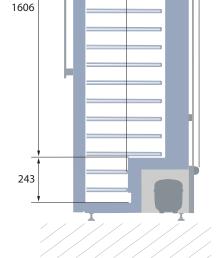
All measurements in mm.

HB: Height of base (HB is adjustable when given value is xx-xx)



69



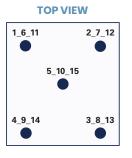




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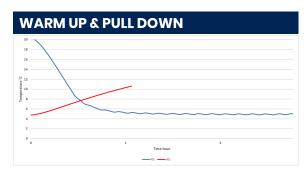
SENSOR POSITION

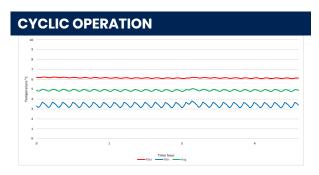
FRONT VIEW 5 2_3 1_4 10 6_9 7_8 15 12_13 11_14



MODEL	R-427I
Test type	15-point test
Test enviroment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	5°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	R600a

SENSOR TEMPERATURE															
Sensor position	P1	P2	Р3	P4	P5	Р6	P7	P8	Р9	P10	P11	P12	P13	P14	P15
Max	5,9	5,7	5,9	6,2	5,8	3,8	4,4	4,7	4,3	4	4,8	5	5,3	5,3	4,9
Avg.	5,8	5,6	5,8	6,1	5,7	3,4	4	4,6	4,1	3,7	4,6	4,8	5,1	5,2	4,8
Min.	5,7	5,5	5,7	6,1	5,6	3,1	3,8	4,5	3,9	3,5	4,5	4,7	5	5,1	4,7





TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET				
Avg. cabinet temperature	4,9°C			
Uniformity	+/- 1,4°C			
Stability in avg.	0,3℃			
1 min. door open recovery to 6°C avg. temperature	10 min.			
Cycle rate on/off	6,5 / 4,4 min.			
Duty cycle	59%			
Energy consumption	0,438 kWh/day			
Pull down time to 6°C avg. temperature	58 min.			
Hold over time from 5°C to 10°C	90 min.			
Sample temperature does not exceed	8°C			
Heat rejection	61 W			
Heat rejection	100			