

R-427i **BIOMEDICAL REFRIGERATOR**

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





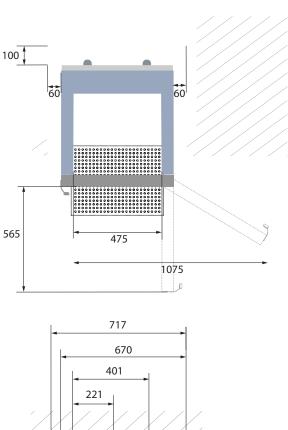
DIMENSIONS	
Outer Dimensions HxWxD, mm	2002x595x642
Inner Dimensions HxWxD, mm	1827x475x495
Weight Gross/Net, kg	88 / 74
Material inner cabinet	ABS
Material outer cabinet	Painted Steel
Packaging weight, kg	-
Packaging dimensions HxWxD, mm	-
Insulation thickness	50
Insulation type	Polyurethane with Cyclopentane
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	
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
STORAGE	
Volume, Gross/Net, L	427 / 361
Shelves, Full/Half	5/1
Shelf material	Perforated Alu
FEATURES	
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	Solid
Door Features	Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility	Yes

SOLUTIONS

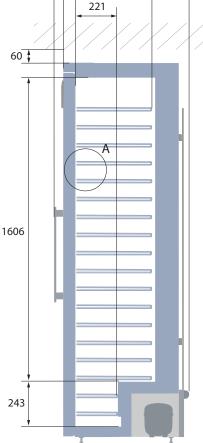


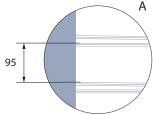
Voltage/Frequency	Voltage/Hz	230V/50-60H
Max Ambient	°C	35°C
Max Humidity	% rh	759
PERFORMANCE		
All data in RT20°C		
	°C	2 to 20
Temperature Range Uniformity in performance	°C	2 to 21
- difference between top and bottom		+/- 1,
Pull down time	Minutes	58 min to 6°0
Hold over time	Minutes	90 min to 10°0
Noise	dB	4
Energy Consumption, kWh / 24h	kWh/24h	0,438 kWh/24h set 5°0
Energy year	kWh/year	159,9kWh/y set 5°
Instant Power Consumption	kW	PD 0,075/Stable 0,02
Heat Rejection	W	6
U-Value	W/m^2 K	0,4
COOLING COMPONENTS		
Refrigerant/Amount (gram)		R600a/60g
Number of compressors	pcs	
Variable speed compressor	Yes/No	Ye
Internal air distribution (type of)		Dual Air Strean
Evaporator Fan	Yes/No/Variable	Ye
Condenser Fan	Yes/No/Variable	N
Number of probes	pcs	
Defrost	Yes/No	Yes - automati
FEATURES		
Safety thermostat	y/n/optional	Ye
Lock	y/n	Ye
LED light	y/n	Ye
Battery Back Up For Controller	y/n/optional	Yes - 24
Porthole	y/n - Ømm	Yes - Ø 20mr
Dry contact	y/n	Ye
Castors	y/n/optional	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	No







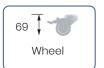




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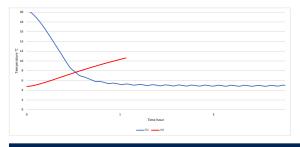
All measurements in mm.

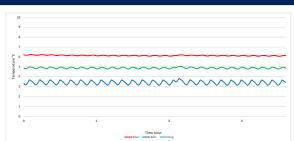
HB: Height of base (HB is adjustable when given value is xx-xx)





SENSOR POSITION MODEL R-427I **Test type** 15-point test **FRONT VIEW TOP VIEW Test environment** Controlled conditions, empty cabinet 1_6_11 2_7_12 5 1 4 2 3 **Ambient temperature** 20°C **Humidity** 5_10_15 5°C 6 9 10 7 8 Set-point 25gr tinned brass formed as a Sensor used cylinder with a diameter of 15,2 4_9_14 3_8_13 15 12 13 11 14 Installation Appliance installed according to instruction manual conditions R600a Refrigerant **SENSOR TEMPERATURE** Sensor P1 **P2** Р3 **P4** Р5 Р6 **P7** Р8 Р9 P10 P11 P12 P13 P14 P15 position 5,9 5 5,7 5,3 5,3 5,9 6,2 5,8 3,8 4,4 4,7 4,3 4 4,8 4,9 Max 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 5,6 3,1 3,8 4,5 3,9 3,5 4,5 4,7 5 5,1 4,7 **WARM UP & PULL DOWN CYCLIC OPERATION**





TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET		
Avg. cabinet temperature	4,9°C	
Uniformity	+/- 014°C	
Stability in avg.	0,3°C	
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	