

# R-138i Glass BIOMEDICAL REFRIGERATOR

With a compact design, this undercounter fits perfectly beneath your work bench, providing a storage solution that is ideal for places where space is limited.







DIMENSIONS	VALUE					
Outer Dimension HxWxD	825x595x642					
Inner Dimension HxWxD	676x475x498					
Weight Gross/Net, kg	59 / 48					
Material inner cabinet	ABS					
Material outer cabinet	Painted Stee					
Insulation thickness	50					
Insulation type	Polyurethane with Cyclopentane					
Air distribution	Dynamic					
Mobility	Standard: Adjustable Feet - Option: Castors					
Refrigerant, Type / gram	R600a / 47					
Variable Speed Compressor	Yes - Adaptive Cooling Technology					
Number of probes						
CONTROLLER	VALUE					
Controller	i-Care, Touch screer					
Controller language	EN, DE, FF					
USB Connection	Yes					
Logging	Data, Alarms & Events					
Temperature graph	Yes					
High/Low temp. Alarm						
Open door alarm	Y					
Probe failure alarm	Yes					
Power failure alarm	Yes					
STORAGE	VALUE					
Volume, Gross/Net, L	138 / 117					
Shelves, Full/Half	2/1					
Shelf material	Perforated Alu					
FEATURES	VALUE					
Lock	Yes					
LED light	Yes					
Battery Backup for Controller, 24h	Yes					
Safety Thermostat	Yes					
Porthole	Yes - Ø 20 mn					
Dry Contact	Yes					
Reference bottle	Yes					
Door	Glass					
D001						

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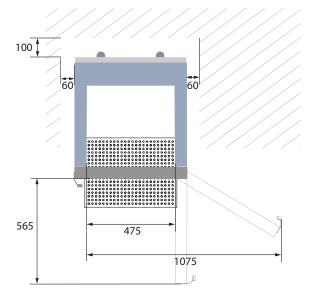
Voltage/Frequency	Voltage/Hz	230V/50-60H
Max Ambient	°C	32°0
Max Humidity	% rh	655
PERFORMANCE	UNIT	VALUE
All data in RT20°C		
Temperature Range	°C	2 to 2
Uniformity in performance - difference between top and bottom	°C	+/- 1,
Pull down time	Minutes	33 min to 6°0
Hold over time	Minutes	80 min to 10°0
Noise	dB	4
Energy 24 hours	kWh/24h	0,433 kWh/24h set 5°0
Energy year	kWh/year	158kWh/y set 5°0
Instant Power Consumption	kW	PD 0,082/Stable 0,02
Heat Rejection	W	5
U-Value	W/m^2 K	0,6
COOLING COMPONENTS		VALUI
Refrigerant/Amount (gram)		R600a/47a
Number of compressors	pcs	
Varibel speed compressor	Yes/No	Ye
Internal air distribution (type of)		Dual Air Strear
Evaporator Fan	Yes/No/Variable	Ye
Condenser Fan	Yes/No/Variable	N
Number of probes	pcs	
Defrost	Yes/No	Yes - automati
FEATURES		VALUE
	y/n/optional	
Safety thermostat		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	Glas
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

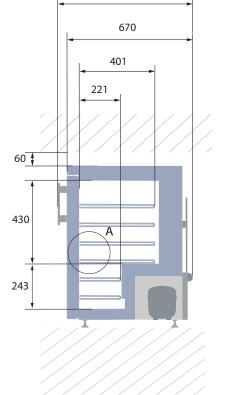


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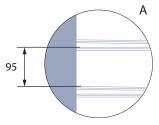
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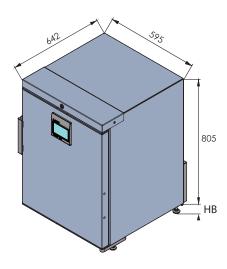
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All measurements in mm.

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





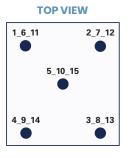


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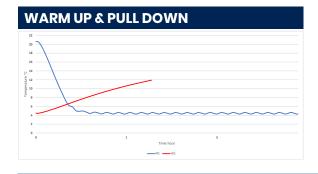
#### **SENSOR POSITION**

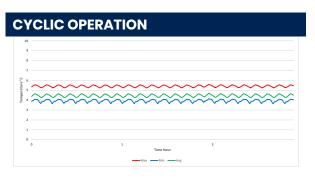
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MODEL	R-138I GLASS
Test type	15-point test
Test enviroment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	5°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	R600a

SENSOR TEMPERATURE															
Sensor position	P1	P2	Р3	P4	P5	Р6	P7	Р8	Р9	P10	PII	P12	P13	P14	P15
Max	5,2	5	5,1	5,6	4,9	4,4	4,1	4,3	4,6	4,3	4,6	4,9	4,4	4,4	4,4
Avg.	5,1	4,8	4,8	5,4	4,7	4,2	4	4,1	4,5	4,2	4,4	4,2	4,2	4,2	4,1
Min.	4,9	4,5	4,6	5,2	4,5	4,1	3,8	3,9	4,3	4	4,2	3,6	4	4,1	3,9





TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CA	BINET
Avg. cabinet temperature	4,5°C
Uniformity	+/- 1,2°C
Stability in avg.	0,2°C
1 min. door open recovery to 6°C avg. temperature	4 min.
Cycle rate on/off	5,3 / 4,5 min.
<b>Duty cycle</b>	53,8%
Energy consumption - Normal mode	0,43 kWh/day
Pull down time to 6°C avg. temperature	33 min.
Hold over time from 5°C to 10°C	80 min.
Sample temperature does not exceed	8°C
Heat rejection	55 W