

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.





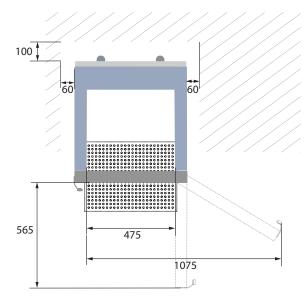
Outer Dimensions HxWxD, mm	825x595x64
Inner Dimensions HxWxD, mm	676x475x49
Weight Gross/Net, kg	59 / 4
Material inner cabinet	AB
Material outer cabinet	Painted Stee
Packaging weight, kg	
Packaging dimensions HxWxD, mm	1037x710x65
Insulation thickness	5
Insulation type	Polyurethane with Cyclopentan
Air distribution	Dynami
Mobility	Standard: Adjustable Feet - Option: Castor
Refrigerant, Type / gram	R600a / 4
Variable Speed Compressor	Yes - Adaptive Cooling Technolog
Number of probes	
CONTROLLER	
Controller	i-Care, Touch scree
Controller language	EN, DE, F
USB Connection	Ye
Logging	Data, Alarms & Event
Temperature graph	Ye
High/Low temp. Alarm	Ye
Open door alarm	Ye
Probe failure alarm	Ye
Power failure alarm	Ye
STORAGE	
Volume, Gross/Net, L	138 / 1
Shelves, Full/Half	2)
Shelf material	Perforated Al
FEATURES	
Lock	Ye
LED light	Ye
Battery Backup for Controller, 24h	Ye
Safety thermostat	Ye
Porthole	Yes - Ø 20 mr
Dry Contact	Ye
Reference bottle	Ye
Door	Glas
Door Features	Automatic: Closure < 90° - Hold Closure > 90°

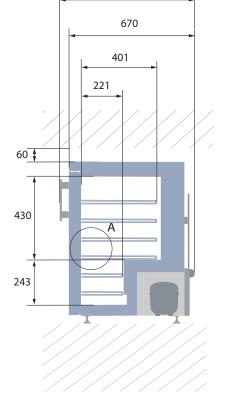
Updated 01/2025



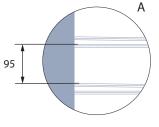
Voltage/Frequency	Voltage/Hz	230V/50-60Hz
Max Ambient	°C	32°C
Max Humidity	% rh	65%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	2 to 20
Uniformity in performance - difference between top and bottom	°C	+/- 1,2
Pull down time	Minutes	33 min to 6°C
Hold over time	Minutes	80 min to 10°C
Noise	dB	44
Energy Consumption, kWh / 24h	kWh/24h	0,433 kWh/24h set 5°C
Energy year	kWh/year	158kWh/y set 5°C
Instant Power Consumption	kW	PD 0,082/Stable 0,028
Heat Rejection	W	55
U-Value	W/m^2 K	0,69
COOLING COMPONENTS		
Refrigerant/Amount (gram)		R600a/47gı
Number of compressors	pcs	1
Variable speed compressor	Yes/No	Yes
Internal air distribution (type of)		Dual Air Stream
Evaporator Fan	Yes/No/Variable	Yes
Condenser Fan	Yes/No/Variable	No
Number of probes	pcs	2
Defrost	Yes/No	Yes - automatic
FEATURES		
Safety thermostat	y/n/optional	Yes
Lock	y/n	Yes
LED light	y/n	Yes
Battery Back Up For Controller	y/n/optional	Yes - 24h
Porthole	y/n - Ømm	Yes - Ø 20mm
Dry contact	y/n	Yes
Castors	y/n/optional	Optiona
Door	glass/solid	Glass
Reference bottle	y/n/optional	Yes
Door closure	y/n/optional	Yes
Door reversibility	y/n	Yes
Automatic Hold 90°C	y/n	Yes
Vacum ventil + VIP (Vacum panel)	y/n	No

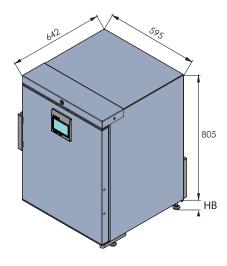






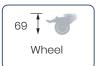
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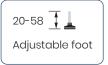




All measurements in mm.

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

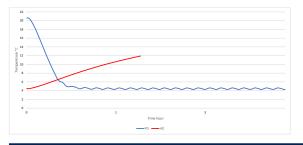


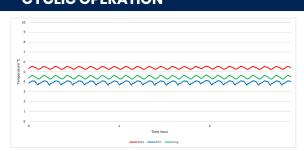


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SENSOR POSITION	I				МО	DEL				R-1	38 G	LASS	
FRONT VIEW TOP VIEW				Test	Test type				15-point test				
	1_6		2_7_12		Test	environ	ment			Contro	olled con empty (,	
1_4 5 2_3)			Amb	ient tem	peratur	е				20°C	
	-	5_10_15			Humidity					60%			
6_9 10 7_8		5_10_13			Set-	point						5°C	
11_14 15 12_13	4_9_	14	3_8_13		Sens	or used				nned bro er with a			
• • •)		Installation			Installation Appliance installed according instruction manual con						
					Refri	gerant						R600a	
SENSOR TEMPERA	TURE												
Sensor P1 P2	P3 P	4 P5	Р6	P7	P8	Р9	P10	P11	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	3,9	3,9	4,3	4	4,2	3,6	4	4,1	3,9	





TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET			
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	∢ min.		
Cycle rate on/off	5,3 / 4,5 min.		
Duty cycle	53,8%		
Energy consumption	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		

SOLUTIONS