

R-138i 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	676x475x495
Weight Gross/Net, kg	56 / 45
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 / 47
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
	100
STORAGE	VALUE
Volume, Gross/Net, L	138 / 117
Shelves, Full/Half	2/1
Shelf material	Perforated Alu
	T CHOILLEU AIL
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	Solid
Door Features	Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility	Yes

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Voltage/Frequency	Voltage/Hz	230V/50-60H
Max Ambient	°C	35°
Max Humidity	% rh	75
PERFORMANCE	UNIT	VALU
All data in RT20°C		
Temperature Range	°C	2 to 2
Uniformity in performance - difference between top and bottom	°C	+/- C
Pull down time	Minutes	30 min to 6°
Hold over time	Minutes	108 min to 10°
Noise	dB	
Energy 24 hours	kWh/24h	0,334 kWh/24h set 5°
Energy year	kWh/year	121,9kWh/y set 5°
Instant Power Consumption	kW	PD 0,080/Stable 0,02
Heat Rejection	W	
U-Value	W/m^2 K	9,0
COOLING COMPONENTS		VALU
Refrigerant/Amount (gram)		R600a/47
Number of compressors	pcs	
Varibel speed compressor	Yes/No	Ye
Internal air distribution (type of)		Dual Air Strea
Evaporator Fan	Yes/No/Variable	Y
Condenser Fan	Yes/No/Variable	١
Number of probes	pcs	
Defrost	Yes/No	Yes - automat
FEATURES		VALL
		VALU
Safety thermostat	y/n/optional	Ye
Lock	y/n	Ye
LED light	y/n	Y
Battery Back Up For Controller	y/n/optional	Yes - 24
Porthole	y/n-Ømm	Yes - Ø 20m
Dry contact	y/n	Y
Castors	y/n/optional	Option
Door	glass/solid	Sol
Reference Bottle	y/n/optional	Y
Door closure	y/n/optional	Y
Door reversibility	y/n	Y
Automatic Hold 90°C	y/n	Ye

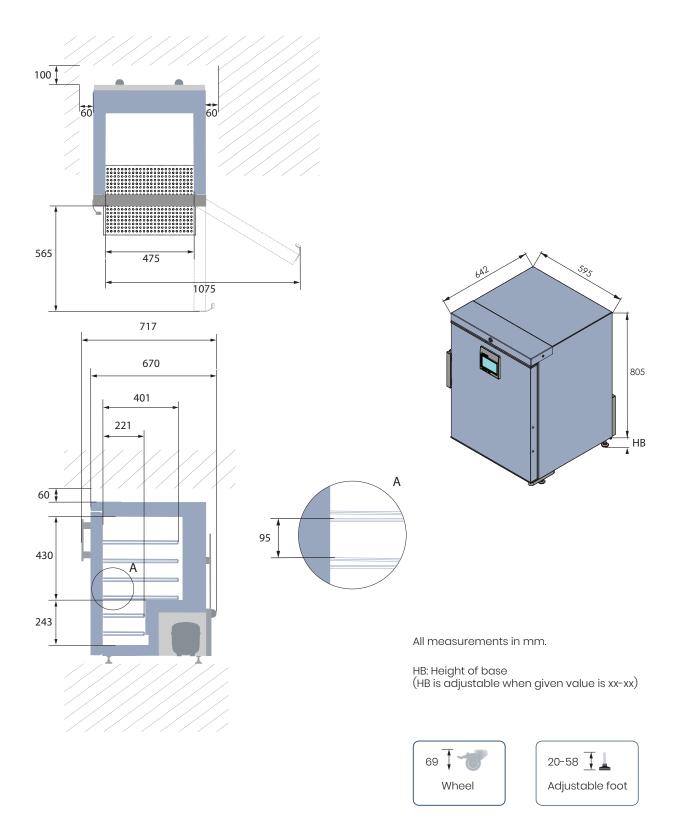




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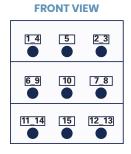


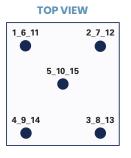


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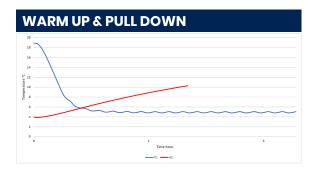
SENSOR POSITION





MODEL	R-138I
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	Pl	P2	Р3	P4	P5	P6	P7	Р8	Р9	P10	PII	P12	P13	P14	P15
Max	5,2	5	5,1	5,6	5,1	5	4,8	5,1	5,3	5	5	4,8	5,2	5,1	4,8
Avg.	5	4,9	5	5,4	5	4,9	4,7	4,9	5,1	4,9	4,9	4,6	4,8	4,9	4,6
Min.	4,9	4,8	4,9	5,3	4,8	4,7	4,6	4,7	5	4,7	4,7	4,4	4,6	4,8	4,4





TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET				
Avg. cabinet temperature	4,9°C			
Uniformity	+/- 104°C			
Stability in avg.	0,1°C			
1 min. door open recovery to 6°C avg. temperature	8 min.			
Cycle rate on/off	4 / 6,5 min.			
Duty cycle	37,9%			
Energy consumption	0,33 kWh/day			
Pull down time to 6°C avg. temperature	30 min.			
Hold over time from 5°C to 10°C	108 min.			
Sample temperature does not exceed	8°C			
Heat rejection	46 W			