

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.



+2°C
+20°C

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DIMENSIONS

Outer Dimensions HxWxD, mm	825x595x642
Inner Dimensions HxWxD, mm	676x475x495
Weight Gross/Net, kg	59 / 48
Material inner cabinet	ABS
Material outer cabinet	Painted Steel
Packaging weight, kg	11
Packaging dimensions HxWxD, mm	1037x710x650
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

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	138 / 117
Shelves, Full/Half	2 / 1
Shelf material	Perforated stainless steel

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	Glass
Door Features	Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility	Yes

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SPECIFICATIONS		
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	50
U-Value	W/m ² K	0,69
COOLING COMPONENTS		
Refrigerant/Amount (gram)		R600a/47gr
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	4
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	Optional
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

* Heat Rejection is defined as average power based on energy consumption, rounded up to nearest 50W.

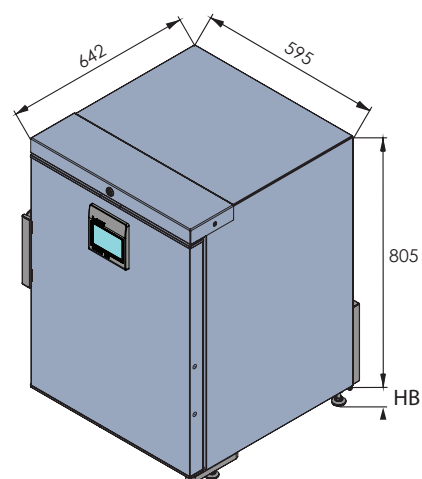
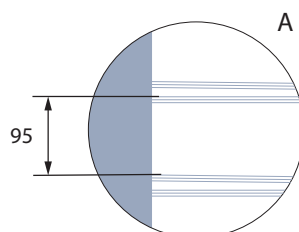
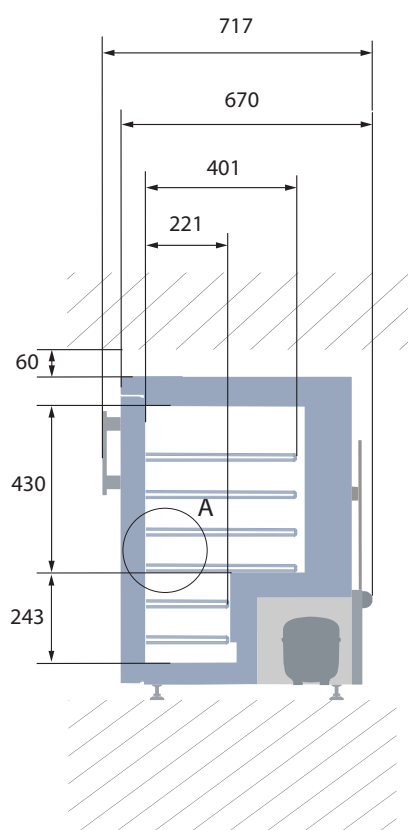
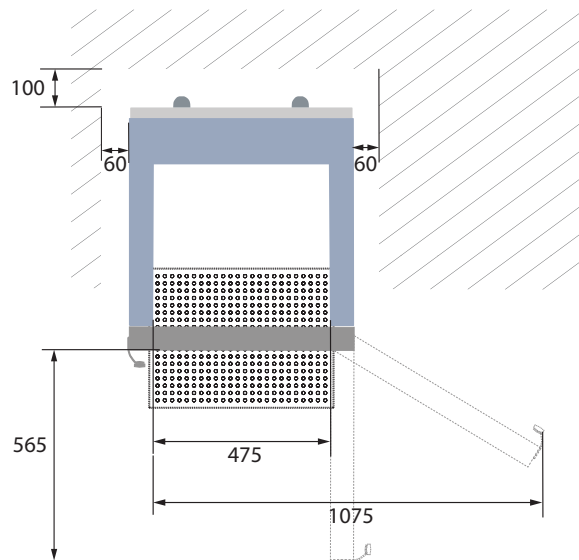
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Updated 05/2025

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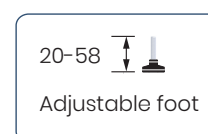
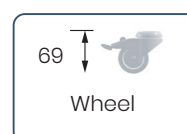
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All measurements in mm.

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

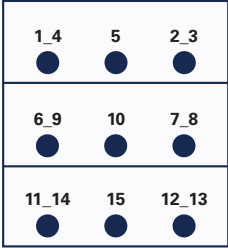
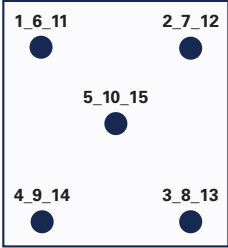


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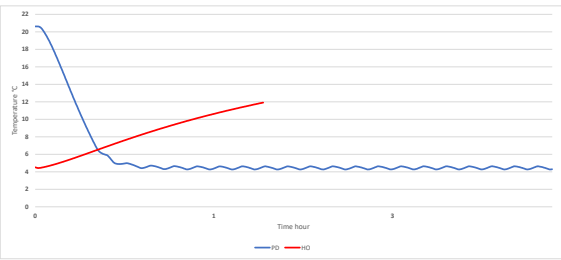
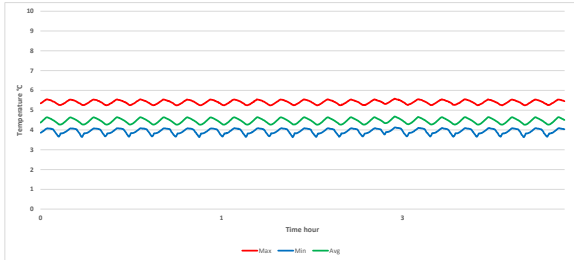
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SENSOR POSITION		MODEL	R-138i GLASS
FRONT VIEW  TOP VIEW 		Test type 15-point test	
		Test environment Controlled conditions, empty cabinet	
		Ambient temperature 20°C	
		Humidity 60%	
		Set-point 5°C	
		Sensor used 25gr tinned brass formed as a cylinder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

SENSOR TEMPERATURE															
Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	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

WARM UP & PULL DOWN								CYCLIC OPERATION							
															

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	<1 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

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