

R-427i Glass

BIOMEDICAL REFRIGERATOR

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



+2°C
+20°C

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DIMENSIONS

Outer Dimensions HxWxD, mm	2002x595x642
Inner Dimensions HxWxD, mm	1827x475x495
Weight Gross/Net, kg	100 / 86
Material inner cabinet	ABS
Material outer cabinet	Painted Steel
Packaging weight, kg	14
Packaging dimensions HxWxD, mm	2218x710x650
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 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	+/- 1,6
Pull down time	Minutes	66 min to 6°C
Hold over time	Minutes	80 min to 10°C
Noise	dB	40
Energy Consumption, kWh / 24h	kWh/24h	0,499kWh/24h set 5°C
Energy year	kWh/year	182kWh/y set 5°C
Instant Power Consumption	kW	PD 0,08/Stable 0,025
Heat Rejection*	W	50
U-Value	W/m ² K	0,7
COOLING COMPONENTS		
Refrigerant/Amount (gram)		R600a/60gr
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

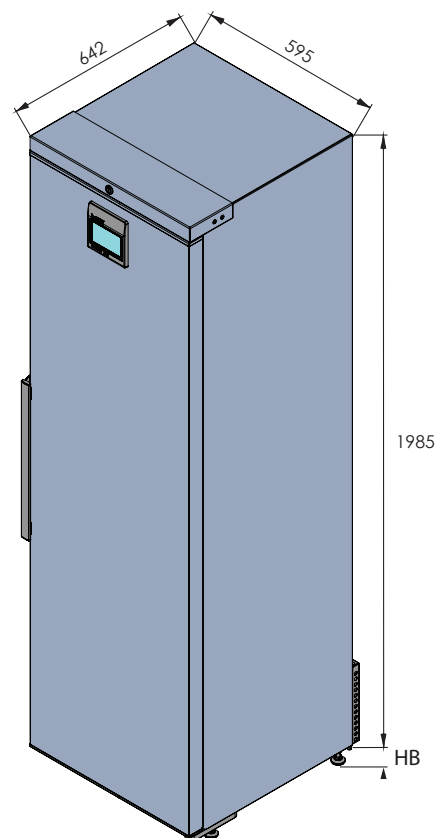
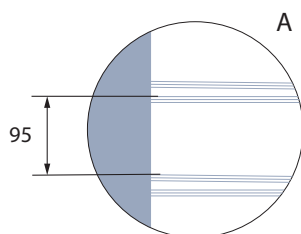
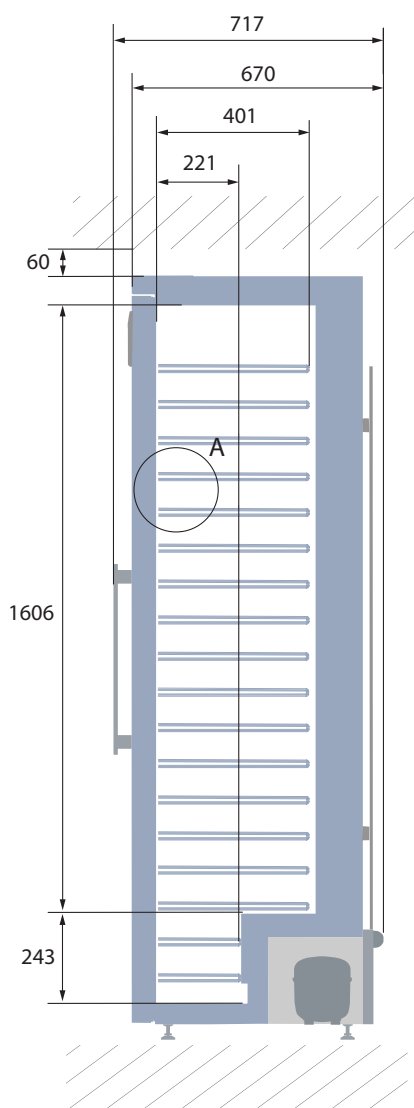
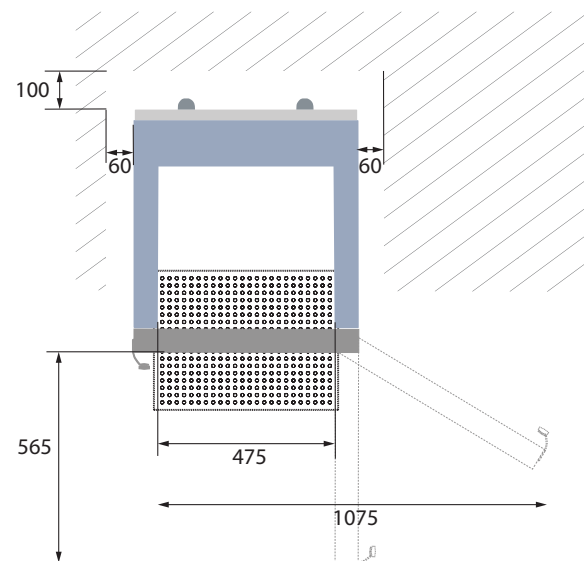
* Heat Rejection is defined as average power based on energy consumption, rounded up to nearest 50W.

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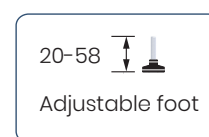
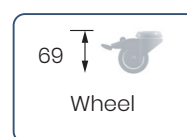
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All measurements in mm.

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



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FRONT VIEW

1_4

5

2_3

6_9

10

7_8

11_14

15

12_13

TOP VIEW

1_6_11

2_7_12

5_10_15

4_9_14

3_8_13

MODEL

R-427i GLASS

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	4,1	4,5	4,8	5,2	4,3	3,6	3,6	4,5	4,4	3,7	6,4	6,1	6,2	6,2	6,2
Avg.	3,7	4,1	4,5	5	3,8	3,1	3,5	4,1	4	3,1	6,2	6	6,1	6,1	6
Min.	3,4	3,8	4,2	4,8	3,4	2,7	3	3,9	3,7	2,7	6,1	5,9	6	6	5,9

WARM UP & PULL DOWN

CYCLIC OPERATION

TYPICAL PERFORMANCE IN AMBIENT 20°C – EMPTY CABINET

Avg. cabinet temperature	4,6°C
Uniformity	+/- 1,6°C
Stability in avg.	0,5°C
1 min. door open recovery to 6°C avg. temperature	<1 min.
Cycle rate on/off	16,9 / 5,3 min.
Duty cycle	76%
Energy consumption	0,499 kWh/day
Pull down time to 6°C avg. temperature	66 min.
Hold over time from 5°C to 10°C	80 min.
Sample temperature does not exceed	8°C
Heat rejection	83 W

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