

Beratung, Vertrieb, Service:



RIEGER

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HEALTHCARE BIOMEDICAL COOLING SOLUTIONS

COOLING WITH CARE
SECURING HEALTH, PROTECTING LIVES

Protect what matters with cooling solutions
designed to safeguard health and save lives.

REFRIGERATORS

R-SERIES

+2°C to +20°C

Reliable cooling for everyday healthcare

Medicines, vaccines, and samples must stay at the right temperature to remain safe and effective. That is why our biomedical refrigerators are built to support daily routines with ease.



Flexible operation

Each unit includes the ETR-System™ (Extended Temperature Range), enabling operation from +2°C to +20°C.

This flexibility lets professionals adapt cooling to their specific needs while reducing energy consumption – lowering operating costs and minimizing carbon emissions.



	R-90i / R-90i Glass		R-138i / R-138i Glass		R-427i / R-427i Glass		
Temperature Range, C°	+2 to +20	+2 to +20	+2 to +20	+2 to +20	+2 to +20	+2 to +20	
Outer Dimensions, HxWxD	672x595x642	672x595x642	825x595x642	825x595x642	2002x595x642	2002x595x642	
Inner Dimensions, HxWxD	481x475x425	481x475x425	676x475x425	676x475x425	1850x475x425	1850x475x425	
Volume, Gross/net, L	90 / 76	90 / 76	138 / 117	138 / 117	427 / 361	427 / 361	
Shelves, Full/half	1 / 1	1 / 1	2 / 1	2 / 1	5 / 1	5 / 1	
Energy Consumption	0,290 kWh/24h	0,336 kWh/24h	0,334 kWh/24h	0,433 kWh/24h	0,438 kWh/24h	0,499 kWh/24h	
Voltage, V/Frequency, Hz	230V-50/60Hz	230V-50/60Hz	230V-50/60Hz	230V-50/60Hz	230V-50/60Hz	230V-50/60Hz	
Noise, dB	46	46	44	44	40	40	
Variable Speed Compressor	Yes - Adaptive Cooling Technology						
Mobility	Standard: Adjustable Feet - Option: Casters						
Certificates	ATEX - DIN 13277						

R-90i

BIOMEDICAL REFRIGERATOR

With the smallest footprint, this unit is perfect for storing biomedical content in a room with limited space. The unit can be placed on a table for easy access in your work environment.



+2°C
+20°C

Products are subject to change due to enhancements and continuous development. Vestfrost Solutions reserve the right to alter any information, without further notice.

DIMENSIONS

Outer Dimensions HxWxD, mm	672x595x642
Inner Dimensions HxWxD, mm	481x475x495
Weight Gross/Net, kg	48 / 38
Material inner cabinet	ABS
Material outer cabinet	Painted Steel
Packaging weight, kg	10
Packaging dimensions HxWxD, mm	840x710x650
Insulation thickness	50
Insulation type	Polyurethane with Cyclopentane
Air distribution	Dynamic
Mobility	Standard: Adjustable Feet - Option: Casters
Refrigerant, Type / gram	R600a / 39
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	90 / 76
Shelves, Full/Half	1 / 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	Solid
Door Features	Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility	Yes

R-90i

BIOMEDICAL REFRIGERATOR

With the smallest footprint, this unit is perfect for storing biomedical content in a room with limited space. The unit can be placed on a table for easy access in your work environment.

SPECIFICATIONS		
Voltage/Frequency	Voltage/Hz	230V/50-60Hz
Max Ambient	°C	35°C
Max Humidity	% rh	75%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	2 to 20
Uniformity in performance - difference between top and bottom	°C	+/- 0,6
Pull down time	Minutes	28 min to 6°C
Hold over time	Minutes	61 min to 10°C
Noise	dB	46
Energy Consumption, kWh / 24h	kWh/24h	0,290 kWh/24h set 5°C
Energy year	kWh/year	105,9kWh/y set 5°C
Instant Power Consumption	kW	PD 0,064/Stable 0,025
Heat Rejection*	W	50
U-Value	W/m ² K	0,58
COOLING COMPONENTS		
Refrigerant/Amount (gram)		R600a/39gr
Number of compressors	pcs	1
Variable speed compressor	Yes/No	Yes
Internal air distribution (type of)		Mono 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
Casters	y/n/optional	Optional
Door	glass/solid	Solid
Reference bottle	y/n/optional	Yes
Door closure	y/n/optional	Yes
Door reversibility	y/n	Yes
Automatic Hold 90°C	y/n	Yes
Vacuum ventil + VIP (Vacuum panel)	y/n	No

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

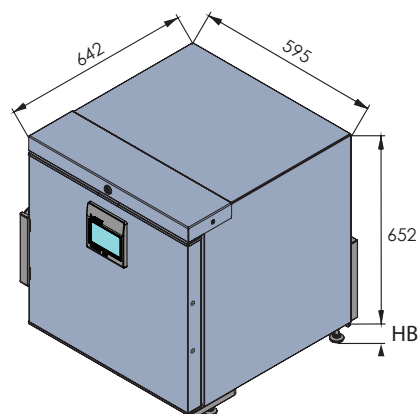
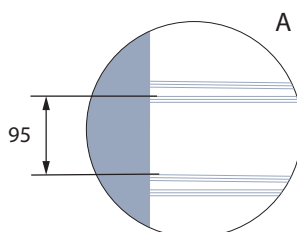
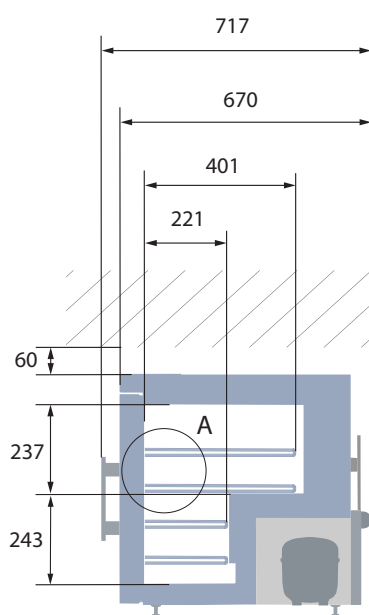
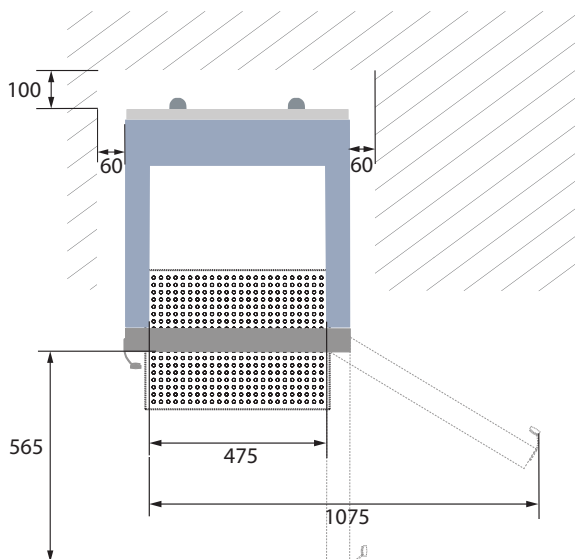
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R-90i

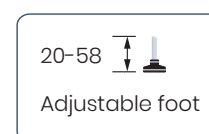
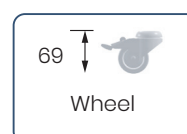
BIOMEDICAL REFRIGERATOR

With the smallest footprint, this unit is perfect for storing biomedical content in a room with limited space. The unit can be placed on a table for easy access in your work environment.



All measurements in mm.

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

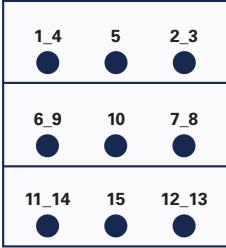
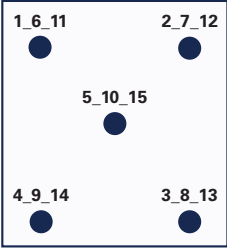


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R-90i

BIOMEDICAL REFRIGERATOR

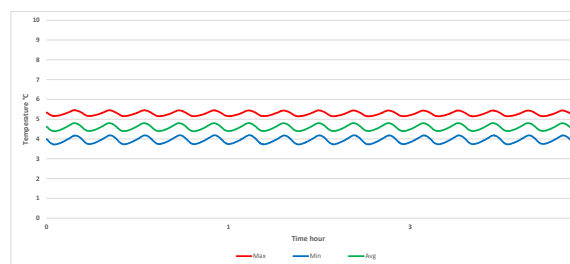
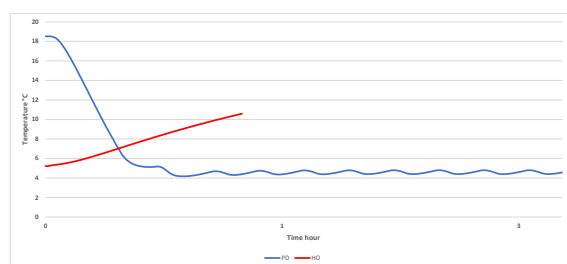
With the smallest footprint, this unit is perfect for storing biomedical content in a room with limited space. The unit can be placed on a table for easy access in your work environment.

SENSOR POSITION		MODEL	R-90i
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	5,7	5,5	5,1	5,6	5,5	4,2	4,7	4,5	5	4,6	5	5	5,1	5,6	4,7
Avg.	5,3	5,3	5,2	5,5	5,1	3,7	4,2	3,9	4,5	4,2	4,5	4,4	4,3	4,8	3,8
Min.	5,1	5,1	5,1	5,4	4,9	3,5	4	3,7	4,2	4	4,2	4,2	3,9	4,5	3,4

WARM UP & PULL DOWN

CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C – EMPTY CABINET	
Avg. cabinet temperature	4,6°C
Uniformity	+/- 0,6°C
Stability in avg.	0,3°C
1 min. door open recovery to 6°C avg. temperature	<1 min.
Cycle rate on/off	5,5 / 10,2 min.
Duty cycle	34,7%
Energy consumption	0,29 kWh/day
Pull down time to 6°C avg. temperature	28 min.
Hold over time from 5°C to 10°C	61 min.
Sample temperature does not exceed	8°C
Heat rejection	40 W

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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.



+2°C
+20°C

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DIMENSIONS

Outer Dimensions HxWxD, mm	825x595x642
Inner Dimensions HxWxD, mm	676x475x495
Weight Gross/Net, kg	56 / 45
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: Casters
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	Solid
Door Features	Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility	Yes

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.

SPECIFICATIONS		
Voltage/Frequency	Voltage/Hz	230V/50-60Hz
Max Ambient	°C	35°C
Max Humidity	% rh	75%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	2 to 20
Uniformity in performance - difference between top and bottom	°C	+/- 0,4
Pull down time	Minutes	30 min to 6°C
Hold over time	Minutes	108 min to 10°C
Noise	dB	44
Energy Consumption, kWh / 24h	kWh/24h	0,334 kWh/24h set 5°C
Energy year	kWh/year	121,9kWh/y set 5°C
Instant Power Consumption	kW	PD 0,080/Stable 0,025
Heat Rejection*	W	50
U-Value	W/m ² K	0,59
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
Casters	y/n/optional	Optional
Door	glass/solid	Solid
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.

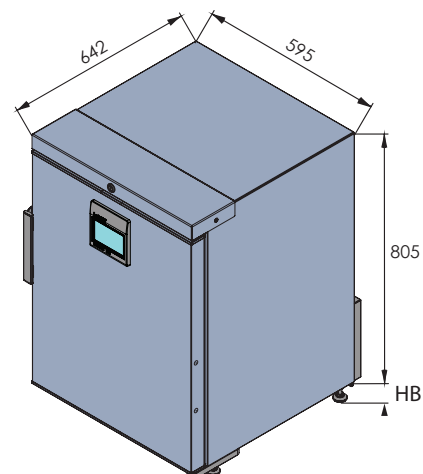
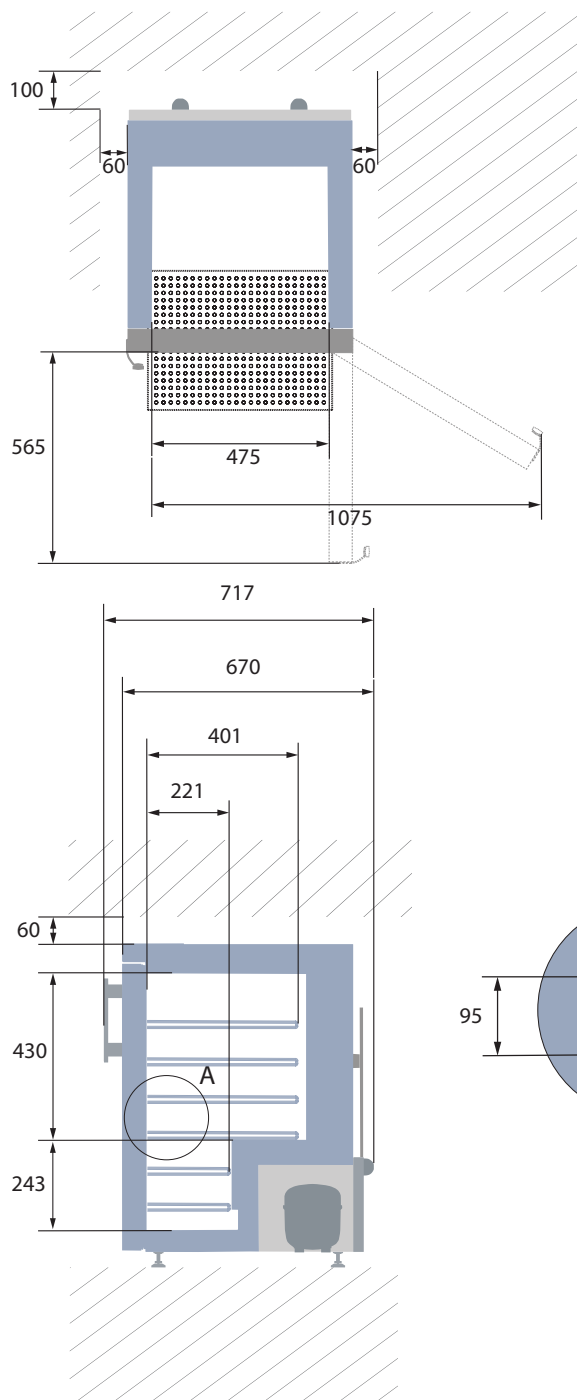
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R-138i

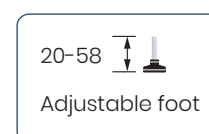
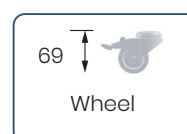
BIOMEDICAL REFRIGERATOR

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.



All measurements in mm.

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



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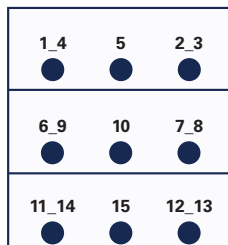
R-138i

BIOMEDICAL REFRIGERATOR

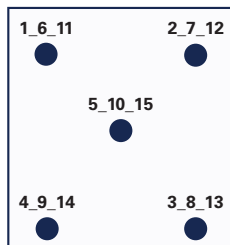
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SENSOR POSITION

FRONT VIEW



TOP VIEW



MODEL

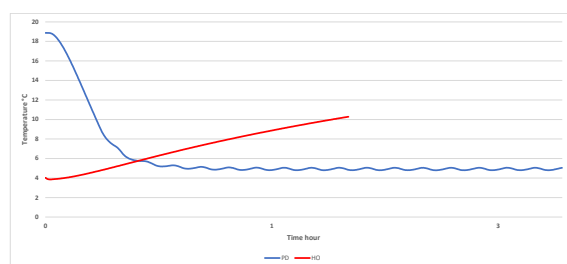
R-138i

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

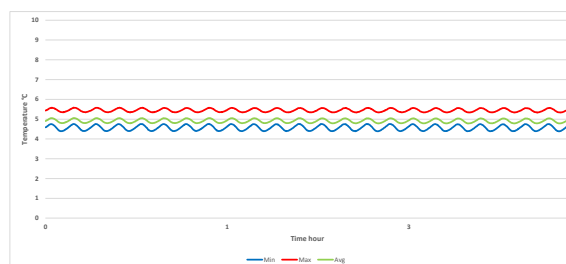
SENSOR TEMPERATURE

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	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

WARM UP & PULL DOWN



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET

Avg. cabinet temperature	4,9°C
Uniformity	+/- 0,4°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

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R-427i

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	88 / 74
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: Casters
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	Solid
Door Features	Automatic: Closure < 90° - Hold Closure > 90°
Door Reversibility	Yes

R-427i

BIOMEDICAL REFRIGERATOR

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

SPECIFICATIONS		
Voltage/Frequency	Voltage/Hz	230V/50-60Hz
Max Ambient	°C	35°C
Max Humidity	% rh	75%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	2 to 20
Uniformity in performance - difference between top and bottom	°C	+/- 1,4
Pull down time	Minutes	58 min to 6°C
Hold over time	Minutes	90 min to 10°C
Noise	dB	40
Energy Consumption, kWh / 24h	kWh/24h	0,438 kWh/24h set 5°C
Energy year	kWh/year	159,9kWh/y set 5°C
Instant Power Consumption	kW	PD 0,075/Stable 0,025
Heat Rejection*	W	50
U-Value	W/m ² K	0,44
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
Casters	y/n/optional	Optional
Door	glass/solid	Solid
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.

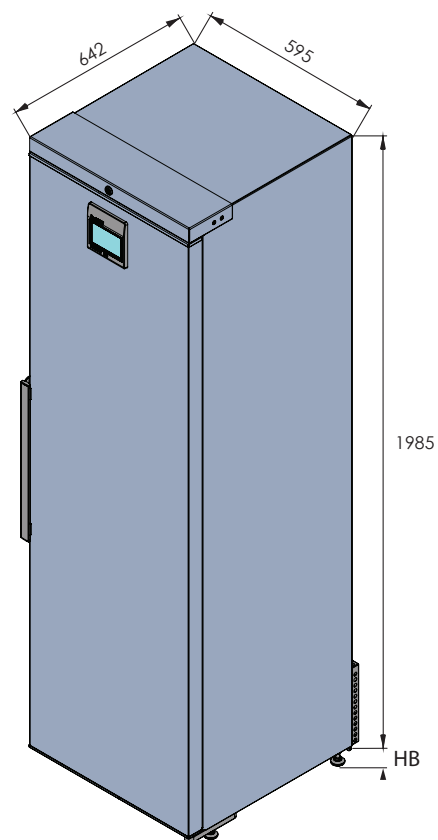
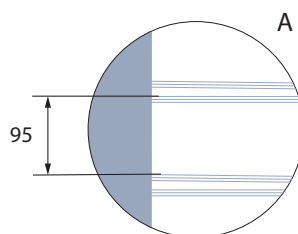
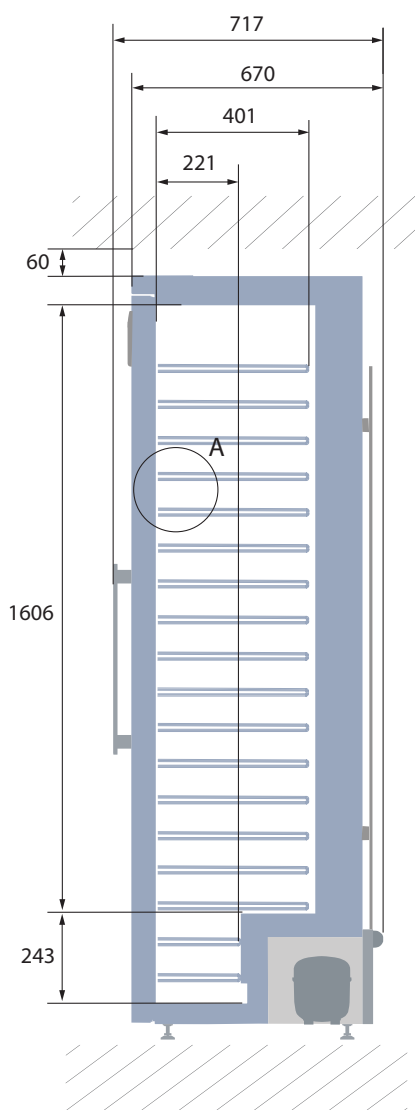
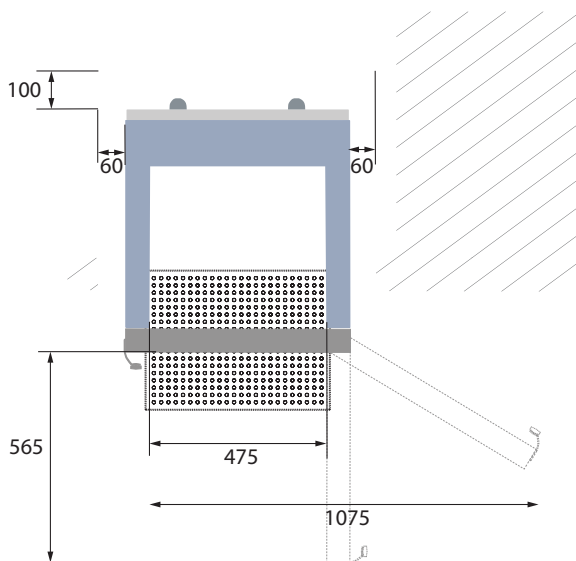
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R-427i

BIOMEDICAL REFRIGERATOR

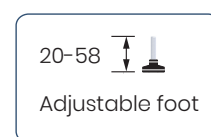
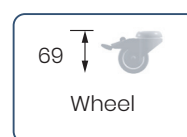
Our upright design is a great choice when you need a storage solution for larger quantities.



All measurements in mm.

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



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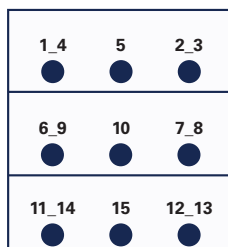
R-427i

BIOMEDICAL REFRIGERATOR

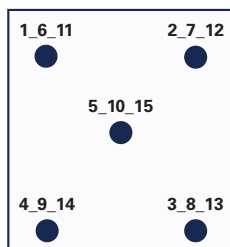
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SENSOR POSITION

FRONT VIEW



TOP VIEW



MODEL

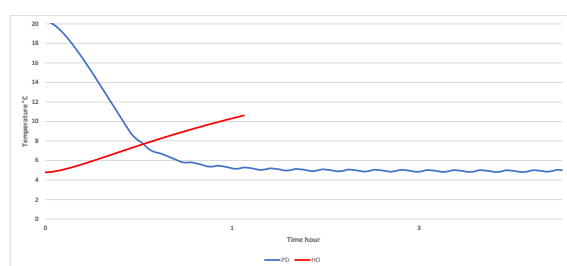
R-427i

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

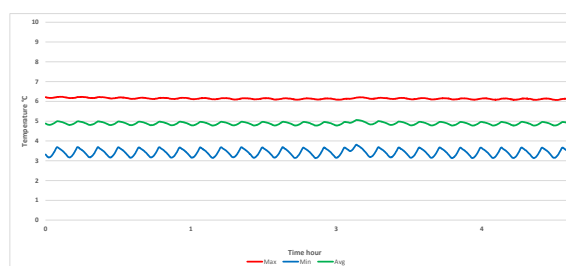
SENSOR TEMPERATURE

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
Max	5,9	5,7	5,9	6,2	5,8	3,8	4,4	4,7	4,3	4	4,8	5	5,3	5,3	4,9
Avg.	5,8	5,6	5,8	6,1	5,7	3,4	4	4,6	4,1	3,7	4,6	4,8	5,1	5,2	4,8
Min.	5,7	5,5	5,7	6,1	5,6	3,1	3,8	4,5	3,9	3,5	4,5	4,7	5	5,1	4,7

WARM UP & PULL DOWN



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C – EMPTY CABINET

Avg. cabinet temperature	4,9°C
Uniformity	+/- 1,4°C
Stability in avg.	0,3°C
1 min. door open recovery to 6°C avg. temperature	10 min.
Cycle rate on/off	6,5 / 4,4 min.
Duty cycle	59%
Energy consumption	0,438 kWh/day
Pull down time to 6°C avg. temperature	58 min.
Hold over time from 5°C to 10°C	90 min.
Sample temperature does not exceed	8°C
Heat rejection	61 W

Products are subject to change due to enhancements and continuous development. Vestfrost Solutions reserve the right to alter any information, without further notice.

ESSENTIAL SERIES

+2°C to +10°C

Our pharmacy refrigerators are designed to make daily work easier and safer. They deliver secure medication storage without unnecessary complexity – securing reliability and peace of mind.



The essential solution

Built to deliver reliable, everyday performance without slowing you down. With a clean, intuitive design, the essential series fits seamlessly into any healthcare setting and makes safe medication storage effortless.

When you need a dependable core solution you can trust, these appliances give you exactly what you need.

Everything essential,
nothing unnecessary.



R-281 Essential R-350 Essential

	+2 to +10 °C	+2 to +10 °C
	1560x595x595	1860x595x595
	1282x500x415	1550x500x415
	281 / 193	350 / 255
	4Full / 1Half	5Full / 1Half
	0,826 kWh/24h	0,962 kWh/24h
	230V-50Hz	230V-50Hz
	45 dB	45 dB
	No	
	2 feet front, 2 Casters back	
	ATEX – DIN 13277	





R-281 ESSENTIAL

ENERGY EFFICIENT

ECO MODE AVAILABLE

Vestfrost Solutions' innovative M series glass door cabinets are the perfect choice to display your products.



+2°C
+10°C

A built-in ECO function together with the optimized cooling system and hydrocarbon refrigerants save energy and reduces your carbon footprint.

Integrated LED light in the door frame offers full exposure of the stored contents while still maintaining a low operational cost.

The flexible and robust glass shelves can easily be adjusted to fit your products.

DIMENSIONS		VALUE
Dimension		1560x595x595
Packaging dimensions		1625x636x671
Weight		73 / 71
Volume		281
FEATURES		VALUE
Defrost tray		☐
No. of shelf		4 + 1 no.
Lid color/type		Glass
Light inside lid		☒
Cabinet color		White
Inside color/material		White / PS
Lock		☒
Electronic display		☒
COOLING		VALUE
Refrigerant / amount		R600a / 50g
Max ambient / Relative humidity		32 °C / 65 %
Energy 20 °C		0,962 kWh/24h set 5 °C
EEL		N/A
Noise		45 dB
Noise class		N/A dB
Voltage		220-240 V
Frequenze		50 Hz
Temperature range		+2 to +10 °C
Energy class		B
CONSTRUCTION		VALUE
Carton weight		0 kg
Eps weight		1,2 kg
Wood weight		0 kg
Plastic weight		0,4 kg



R-281 ESSENTIAL

ENERGY EFFICIENT

ECO MODE AVAILABLE

BIOMEDICAL

Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	32°C
Max Humidity	% rh	65%
PERFORMANCE		
PERFORMANCE	UNIT	VALUE
All data in RT20°C		
Temperature Range	°C	2 to 10
Uniformity in performance - difference between top and bottom	°C	+/- 0,8
Pull down time	Minutes	24 min to 6°C
Hold over time	Minutes	78 min to 10°C
Noise	dB	45
Energy 24 hours	kWh/24h	0,826kWh/24h set 5°C
Energy year	kWh/year	302kWh/y set 5°C
Instant Power Consumption	kW	PD 0,2 /Stable 0,18
Heat Rejection	W	-
U-Value	W/m^2 K	-
COOLING COMPONENTS		
COOLING COMPONENTS		VALUE
Refrigerant/Amount (gram)		R600a/50gr
Number of compressors	pcs	1
Varibel speed compressor	Yes/No	No
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		
FEATURES		VALUE
Safety thermostat	y/n/optional	No
Lock	y/n	Yes
LED light	y/n	Yes
Battery Back Up For Controller	y/n/optional	Yes
Porthole	y/n - Ømm	Yes - Ø 12,7 mm
Dry contact	y/n	No
Castors	y/n/optional	Optional
Door	glass/solid	Glass
Reference Bottle	y/n/optional	No
Door closure	y/n/optional	Yes
Door reversibility	y/n	Yes
Automatic Hold 90°C	y/n	No
Vacum ventil + VIP (Vacum panel)	y/n	No
Bluetooth connection	y/n/optional	Yes
Aluminum shelf		Optional



R-281 ESSENTIAL

ENERGY EFFICIENT

ECO MODE AVAILABLE

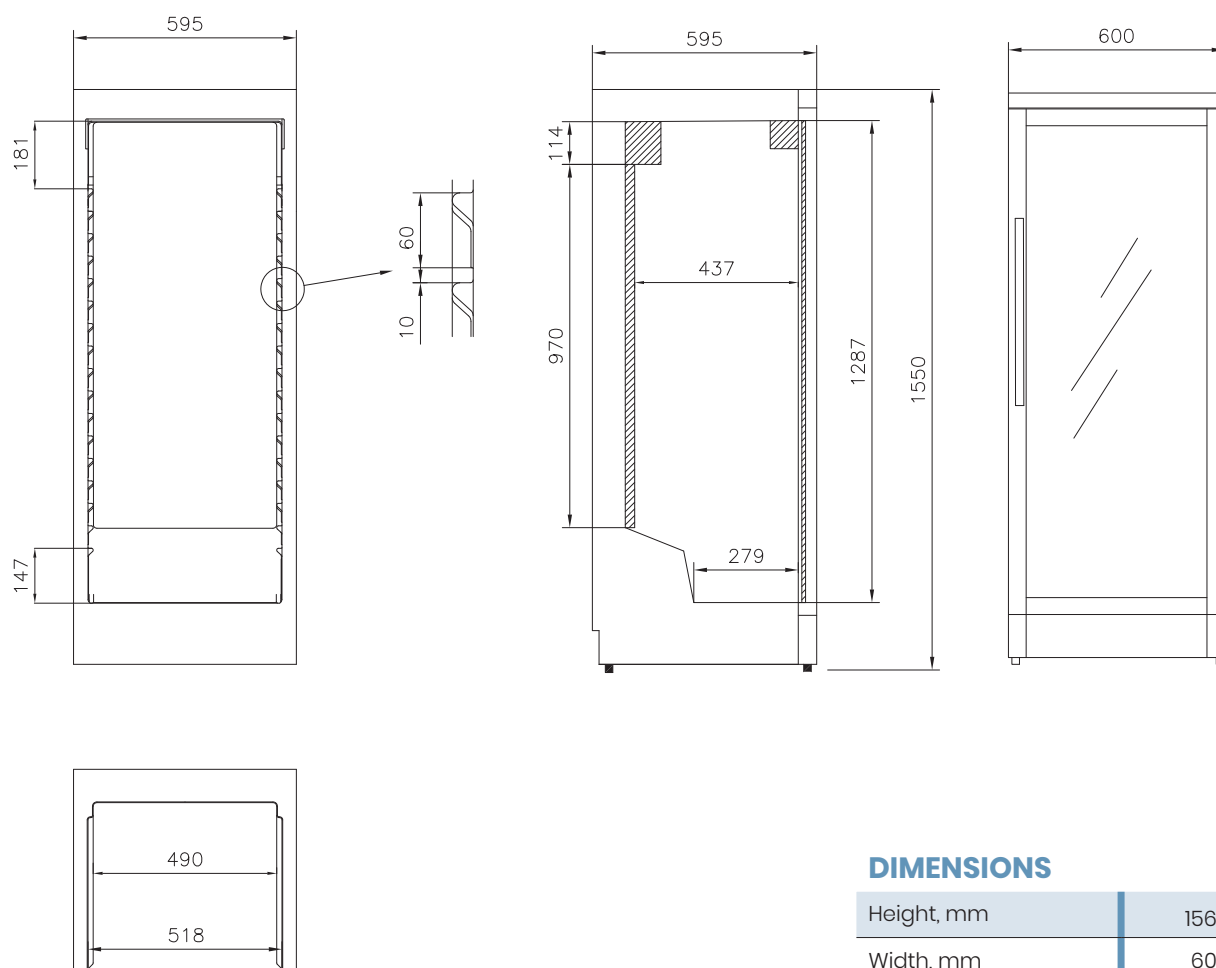
CONTROLLER		VALUE
Controller	y/n/optional	Danfoss
Controller type		ERC 112
USB Connection	y/n	No
Data connection		-
Controller abilities		-
Controller languages		No Language - only 3 digits
Logs/numbers	y/n	-
Alarms		"High and low temperature alarm Door alarm Probe failure"
Temperature curve in controller	y/n	No
STORAGE		VALUE
SPOR Full length half length		15 Full/2Half
Shelves Full length half length		4Full/1Half
Gross Volume		281
Net Volume		193
Max loading total		
DIMENSIONS AND CONSTRUCTION		VALUE
Inner Height (Net)	mm	1282
Inner Width (Net)	mm	500
Inner Depth (Net)	mm	415
Height + (Feet)	mm	1560
Width	mm	595
Depth (Rear point to door front)	mm	595
Depth (including doorhandle)	mm	-
Brutto weight	kg	73,0
Netto weight	kg	71,0
Packing	Kg	2
Material Inner cabinet		White/PS
Material Outer Cabinet		Painted steel
Insulation thickness	mm	42
Insulation type		"Polyurethane with cyclopentane"
Mobility		"2 feet front 2 wheels back"
Type of packaging		EPS
REFERENCE		
Uniformity in performance - difference between top and bottom	TR	TR23126
Pull down time (from 25 to fabric setpoint)	TR	TR23126
Hold over time (From fabric SP to -25, -40 and -60) Empty	TR	TR23126
Hold over time (From fabric SP to -25, -40 and -60) Full	TR	TR23126
Energy 24 hours	TR	TR23126
Energy year (beregnet ud fra Energy 24 hours)	Kwh/year	301
Noise	45	According to EU standard
Humidity	TR	TR23126



R-281 ESSENTIAL

ENERGY EFFICIENT

ECO MODE AVAILABLE



DIMENSIONS

Height, mm	1560
Width, mm	600
Depth, mm	595
Incl. handle, mm	640
Incl. open door, mm	1180

All measurements in mm.



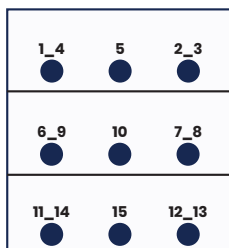
R-281 ESSENTIAL

ENERGY EFFICIENT

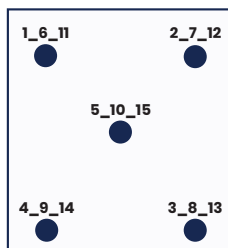
ECO MODE AVAILABLE

SENSOR POSITION

FRONT VIEW



TOP VIEW



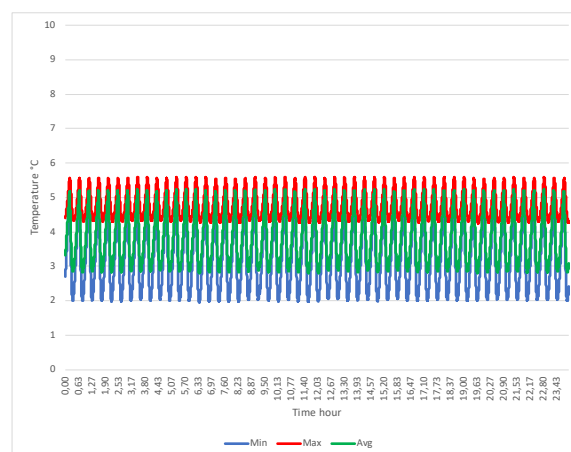
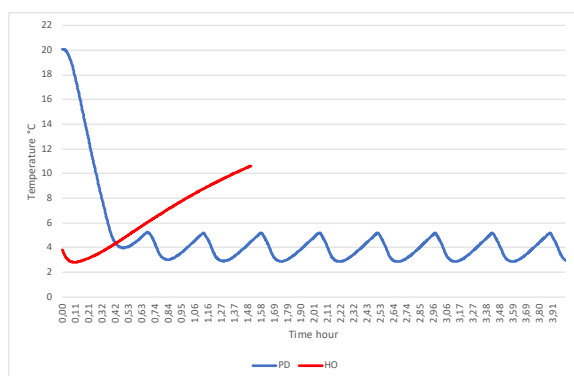
MODEL

R-281 ESSENTIAL

Test enviroment	Controlled conditions
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2mm
Installation	Appliance installed according to instruction manual condition
Refrigerant	R600a

SENSOR TEMPERATURE WITH SET POINT 5°C IN STABLE CONDITION 24HR AMBIENT 20°C

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
4,1	3,7	4,3	4,8	3,8	3,8	3,7	3,8	3,9	3,3	3,7	3,2	3,7	3,8	3,8	Avg
5,3	5,2	5,6	5,6	5,1	5,4	5,4	5,4	5,3	5	5,1	4,8	5	5,3	5	Max
3,1	2,6	3,4	4,3	2,8	2,6	2,4	2,5	2,8	2	2,7	2,8	2,8	2,6	3	Min



TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET

Average Cabinet Temp at 5°C setpoint	3,8	°C
Uniformity	1,5	°C
Stability	2,4	°C
1 min door open recovery to 6 °C	7	min
Cycle rate on/off	5/23	min/min
Duty cycle	18	%
Energy consumption	0,826	kWh/day
Pull down time to 6°C	24	min
Hold over time from avg to 10°C	78	min
Heat Rejection	-	W
U-Value	-	W/m^2*K
Noise	45	dB

R-350 ESSENTIAL

**GREAT CAPACITY AND
LOW POWER CONSUMPTION**

ECO MODE AVAILABLE



A built-in ECO function together with the optimized cooling system and hydrocarbon refrigerants save energy and reduces your carbon footprint. Integrated LED light in the door frame offers full exposure of the stored contents while still maintaining a low operational cost. The flexible and robust glass shelves can easily be adjusted to fit your products.



**+2°C
+10°C**

DIMENSIONS

Outer Dimensions HxWxD, mm	1860x595x595
Inner Dimensions HxWxD, mm	1550x500x415
Weight Gross/Net, kg	81 / 79
Material inner cabinet	White/PS
Material outer cabinet	Painted steel
Packaging weight, kg	2
Packaging dimensions HxWxD, mm	1925x636x671
Insulation thickness	42
Insulation type	Polyurethane with cyclopentane
Mobility	2 feet front, 2 wheels back
Refrigerant, Type / gram	R600a / 50g

CONTROLLER

Controller	Danfoss
Controller language	No Language - only 3 digits
USB Connection	No
Logging	No
Temperature graph	No
High/Low temp. Alarm	Visual
Open door alarm	Visual
Probe failure alarm	Visual

STORAGE

Volume, Gross/Net, L	350 / 255
SPOR Full length half length	21 Full / 2 Half
Shelves Full length half length	5 Full / 1 Half
Max. shelf load, kg	20 / 11
Shelf type	Perforated stainless steel

FEATURES

Lock	Yes
Defrost tray	No
Lid color/type	Glass
Light inside lid	Yes
Cabinet color	White
Inside color/material	White / PS
Electronic display	Yes

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R-350 ESSENTIAL

GREAT CAPACITY AND
LOW POWER CONSUMPTION

 ECO MODE AVAILABLE

SPECIFICATIONS		
Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	32°C
Max Humidity	% rh	65%
PERFORMANCE		
All data in RT20°C		
Temperature Range	°C	2 to 10
Uniformity in performance - difference between top and bottom	°C	+/- 0,8
Pull down time	Minutes	27 min to 6°C
Hold over time	Minutes	69 min to 10°C
Noise	dB	45
Energy Consumption, kWh / 24h	kWh/24h	0,962kWh/24h set 5°C
Energy year	kWh/year	351kWh/y set 5°C
Energy class		B
Instant Power Consumption	kW	PD 0,18 /Stable 0,16
Heat Rejection*	W	50
U-Value	W/m ² K	-
COOLING COMPONENTS		
Refrigerant/Amount (gram)		R600a/50gr
Number of compressors	pcs	1
Variable speed compressor	Yes/No	No
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	No
Lock	y/n	Yes
LED light	y/n	Yes
Battery Back Up For Controller	y/n/optional	No
Porthole	y/n - Ømm	Yes - Ø 12,7 mm
Dry contact	y/n	No
Door	glass/solid	Glass
Reference bottle	y/n/optional	No
Door closure	y/n/optional	Yes
Door reversibility	y/n	Yes
Automatic Hold 90°C	y/n	No
Vacum ventil + VIP (Vacum panel)	y/n	No
Bluetooth connection	y/n	Yes

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

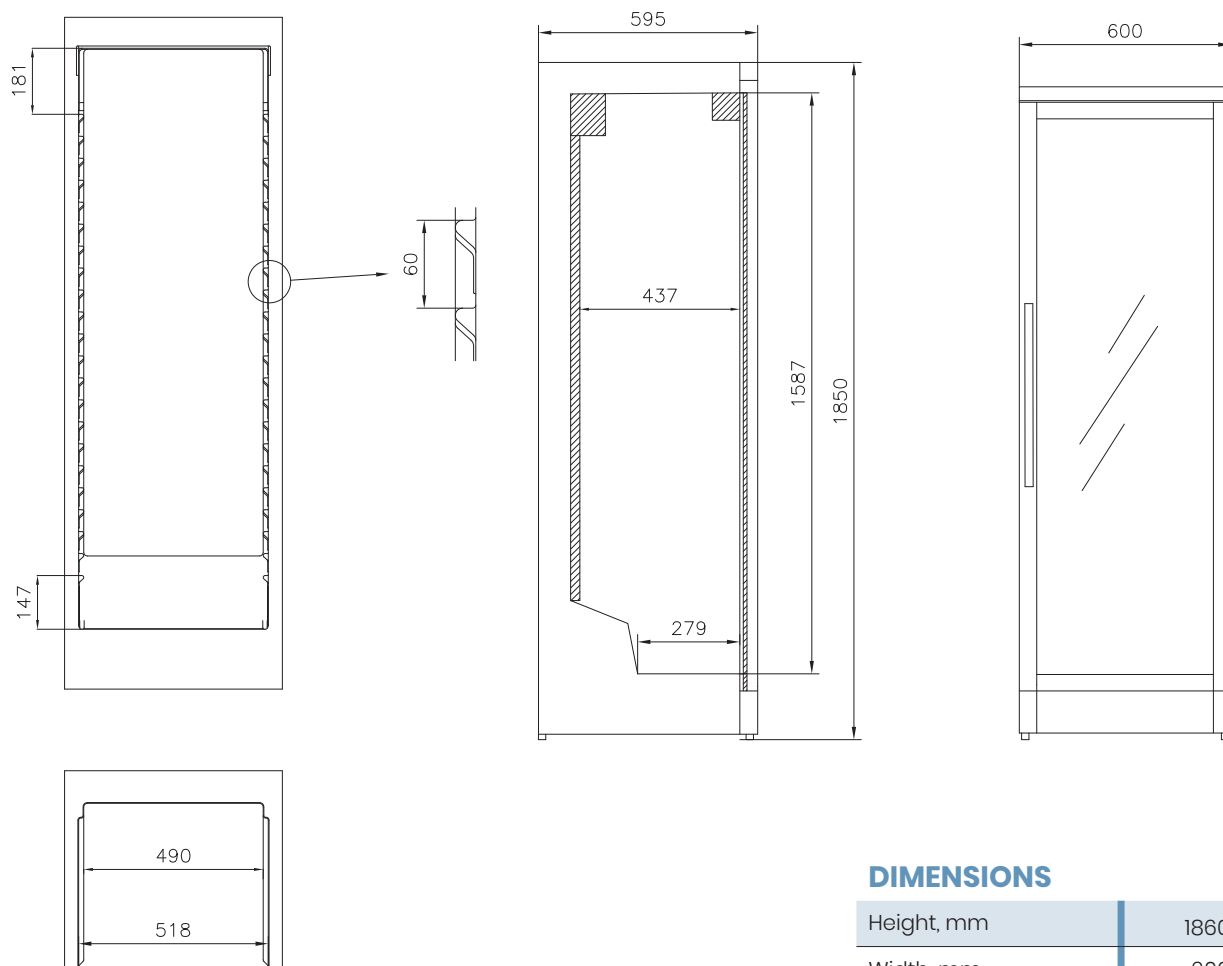
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Updated 06/2026

R-350 ESSENTIAL

**GREAT CAPACITY AND
LOW POWER CONSUMPTION**

 **ECO MODE AVAILABLE**



DIMENSIONS

Height, mm	1860
Width, mm	600
Depth, mm	595
Incl. handle, mm	640
Incl. open door, mm	1180

All measurements in mm.



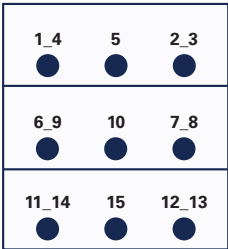
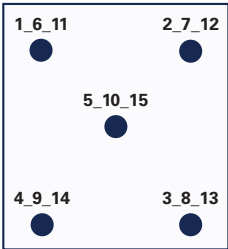
Mobility: 2 feet front, 2 wheels back

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R-350 ESSENTIAL

**GREAT CAPACITY AND
LOW POWER CONSUMPTION**

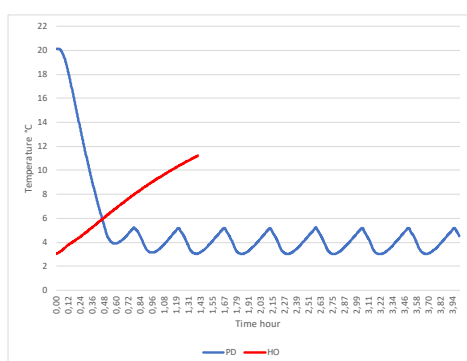
 **ECO MODE AVAILABLE**

SENSOR POSITION		MODEL	R-350 ESSENTIAL
FRONT VIEW  TOP VIEW 		Test environment Controlled conditions,	
		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	

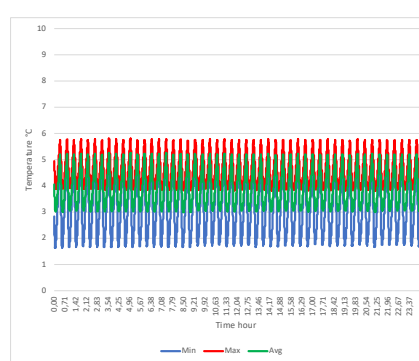
SENSOR TEMPERATURE WITH SET POINT 5°C IN STABLE CONDITION 24HR AMBIENT 20°C

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15
Max	4,1	4	4,5	4,6	4,2	3,2	3,2	3,7	4,1	3,5	4,6	3,5	3,9	4	3,8
Avg.	5,5	5,4	5,3	5,8	5,5	4,9	5,2	5,2	5,5	5,1	5,3	5	5,3	5	4,8
Min.	3	2,9	3,8	3,8	3,3	2	1,6	2,5	3,1	2,5	4,1	2,5	2,8	3,4	3,1

WARM UP & PULL DOWN



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C – EMPTY CABINET

Avg. cabinet temperature at 5°C setpoint	3,9°C
Uniformity	+/- 1,4°C
Stability	2,2°C
1 min. door open recovery to 6°C	6 min.
Cycle rate on/off	7 / 22 min.
Duty cycle	23%
Energy consumption	0,962 kWh/day
Pull down time to 6°C	27 min.
Hold over time from avg to 10°C	69 min.
Heat rejection	- W
U-Value	- W/m²K
Noise	45 dB

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Updated 06/2026

I-CARE CONTROLLER

The i-CARE controller is the intelligent control hub of your appliance, giving you instant access to storage data, maintenance schedules, and settings – all in one place.

With intuitive icons, logical menus, and fast response, operating biomedical appliances has never been easier.



Safety & identification

- Name device
- Set password for restricted parameters



Visual & acoustic alarms

- High/low temperature
- Open door
- Probe failure



Datalogging & live graph

- Integrated datalogging for documentation
- Plug and play system
- Extract reports via USB
- Live graph for quick overview
- Stores data for up to 3 years



Customizability

- Change alarm settings
- Change temperature shown
- Lighting control





Complexity made simple

The 5-inch touch screen is simple to navigate, with intuitive icons and customizable settings tailored to the needs of professionals.

On first startup, it guides you through a quick installation process, allowing you to select profile settings for medicines stored chilled or at room temperature.



Adaptive Cooling Technology™

Our Adaptive Cooling Technology™ delivers key advantages:

- Low noise for a comfortable work environment
- Lower energy consumption
- Fast temperature recovery
- Best in class temperature stability and efficient performance

This means that medical contents are stored in reliable & safe conditions – always.



Info Center

Accurate information and documentation are essential when storing sensitive biomedical materials. By continuously monitoring and making data easily accessible, we ensure full visibility of precious inventory.

Temperature readings, datalogging, live graphs, and event tracking provide complete control and peace of mind.

