

BIOMEDICAL ULT FREEZER

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	VALUI
Outer Dimensions HxWxD	672x595x64
Depth incl. door handle	69
Inner Dimensions HxWxD	481x475x49
Weight Gross/Net, kg	87 / 6
Material inner cabinet	Stainless Stee
Material outer cabinet	Painted Stee
Insulation thickness	8
Insulation type	Polyurethane with Cyclopentan
Mobility	4 x adjustable fee
Refrigerant, Type / gram	Nature R 2/109¢
CONTROLLER	VALU
Controller language	No Language - only 3 digi
USB Connection	Yes zangaage only earg
Datalogging	Ye
High/Low temp. Alarm	Ye
Open door alarm	Ye
Probe failure alarm	Ye
Power failure alarm	Ye
STORAGE	VALU
Volume, Gross/Net, L	92 / 9
Shelves	02 / 0
Cryoboxes "2	6
FEATURES	VALU
Lock	Ye
LED light	Ye
Battery Back Up For Controller	Yes - 24
Porthole	Yes - Ø 14,5mr
Dry contact	Ye
Castors	Option
Door	Sol
Door reversibility	N
-	Yo
Vacuum valve	
Vacuum valve VIP (Vacum panel)	Ϋ́





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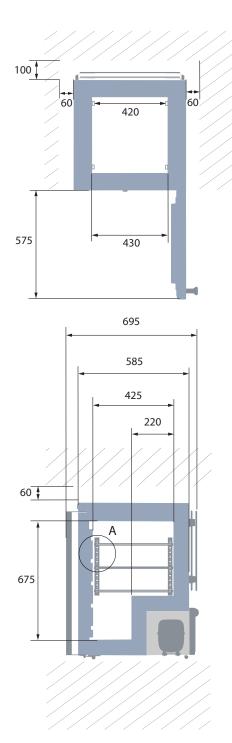
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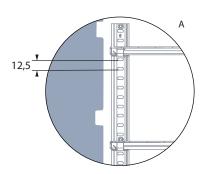
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Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	25°C
Max Humidity	% rh	65%
PERFORMANCE	UNIT	VALUE
All data in RT20°C		
Temperature Range	°C	-20 to -86
Uniformity in performance - difference between top and bottom	°C	+/- 2,0
Pull down time	Minutes	168 min to -75°C
Hold over time	Minutes	102 min to -60°C
Noise	dB	
Energy Saving Mode	kWh/24h	NA
Energy Consumption, kWh / 24h	kWh/24h	6,562 kWh/24h Set -82
Energy year	kWh/year	2395,13kWh/y Set -82°C
Instant Power Consumption	kW	PD 0,750-0,4/Stable 0,330
Heat Rejection	W	393
U-Value	W/m^2 K	0,18
COOLING COMPONENTS		VALUE
Refrigerant/Amount (gram)		Nature R 2/109gr
Number of compressors	pcs	1
Varibel speed compressor	Yes/No	No
Internal air distribution (type of)		Static
Evaporator Fan	Yes/No/Variable	No
Condenser Fan	Yes/No/Variable	Yes
Number of probes	pcs	
Defrost	Yes/No	No

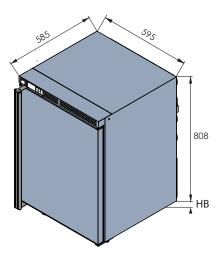


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All measurements in mm.

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

22-27 **Adjustable foot**

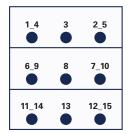


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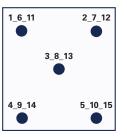
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SENSOR POSITION

FRONT VIEW



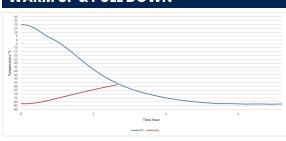
TOP VIEW

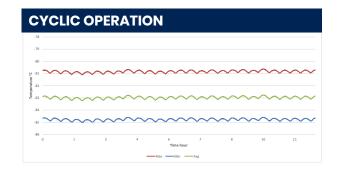


MODEL	VTS 098
Test type	8-point test
Test enviroment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant	Nature R

SENSO	R TEM	PERA	TURE												
Sensor position	Pl	P2	Р3	P4	P5	P6	P7	Р8	Р9	P10	PII	P12	P13	P14	P15
Max	-80,9	-81,2	-81,1	-80,9	-80,6	-84,6	-84,2	-83,5	-83,4	-83,2	-83,6	-83,4	-83,8	-83,8	-83,6
Avg.	-81,1	-81,4	-81,3	-81,2	-80,8	-84,8	-84,4	-83,7	-83,6	-83,4	-83,8	-83,6	-84,1	-84,1	-83,9
Min.	-81,3	-81,6	-81,6	-81,4	-81,1	-85	-84,6	-83,9	-83,9	-83,6	-84,1	-83,8	-84,4	-84,4	-84,1

WARM UP & PULL DOWN





TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET				
Avg. cabinet temperature	-83℃			
Peak variation from set-point	+1,7/-2,6°C			
Stability in avg.	?°C			
1 min. door open recovery to -75°C avg. temperature	32 min.			
Cycle rate on/off	22,7/4,7 min.			
Duty cycle	82,4%			
Energy consumption	6,56 kWh/day			
Pull down time to -75°C avg. temperature	168 min.			
Hold over time from -82°C to -60°C	102 min.			
Sample temperature does not exceed	-70°C			