VTS 098

BIOMEDICAL ULT FREEZER

With a compact design, this undercounter fits perfectly beneath your workbench, providing a storage solution that is ideal for places where space is limited.

-20°C
-86°c

DIMENSIONS	
Outer Dimensions HxWxD, mm	808x595x585
Depth incl. door handle	695
Height + feet/castors	808 + 22-27
Inner Dimensions HxWxD, mm	675x430x425
Weight Gross/Net, kg	87 / 61
Material inner cabinet	Stainless Steel
Material outer cabinet	Painted Steel
Packaging weight, kg	26
Packaging dimensions HxWxD, mm	1100x800x750
Insulation thickness	80
Insulation type	Polyurethane with Cyclopentane
Mobility	4 x adjustable feet
Refrigerant, Type / gram	Nature R 2/109gr
CONTROLLER	
Controller language	No Language - only 3 digits
USB Connection	Yes
Datalogging	Yes
High/Low temp. Alarm	Yes
Open door alarm	Yes
Probe failure alarm	Yes
Power failure alarm	Yes
STORAGE	
Volume, Gross/Net, L	92 / 92
Shelves	3
Cryoboxes "2	72
FEATURES	
Lock	Yes
LED light	Yes
Battery Backup For Controller	Yes - 24h
Porthole	Yes - Ø 14,5mm
Dry contact	Yes
Castors	Optional
Door	Solid
Door reversibility	No
Vacuum valve	Yes
VIP (Vacuum panel)	Yes
Door frame heater	Hot gas loop

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Voltage/Frequency	Voltage/Hz	230V/50Hz
Max Ambient	°C	25°C
Max Humidity	% rh	65%
PERFORMANCE		
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	54
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	300
U-Value	W/m^2 K	0,18
COOLING COMPONENTS		
Refrigerant/Amount (gram)		Nature R 2/109gr
Number of compressors	pcs	1
Variable 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	1
Defrost	Yes/No	No

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

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A/S Vestfrost | Falkevej 12 | DK-6705 Esbjerg Ø | www.vestfrostsolutions.com

VESTFROST SOLUTIONS

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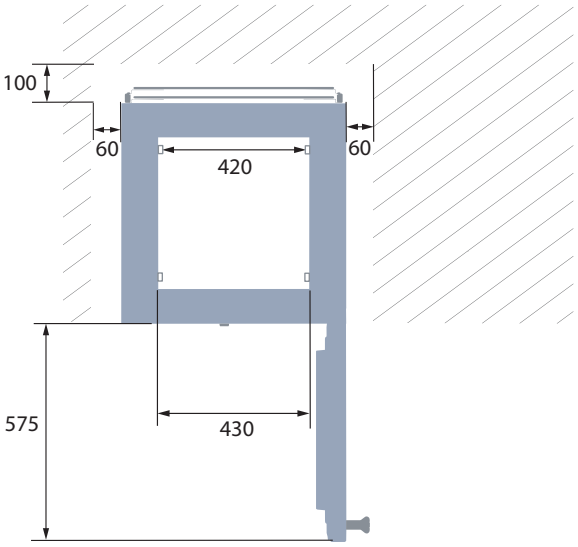

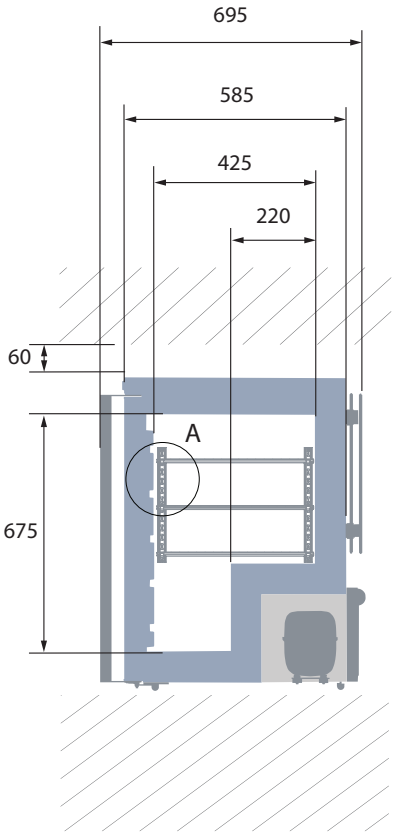

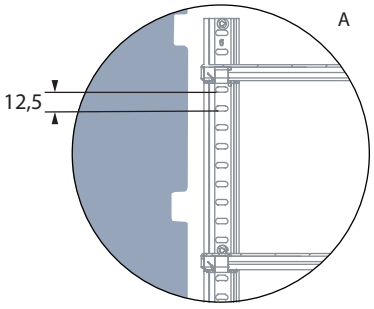

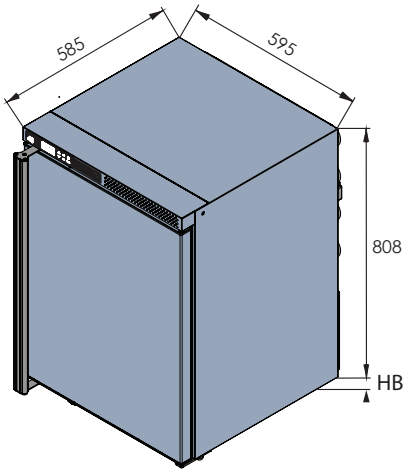

All measurements in mm.

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

22-27

Adjustable foot

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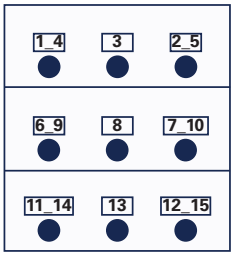
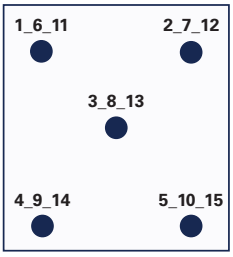
SENSOR POSITION

FRONT VIEW



TOP VIEW

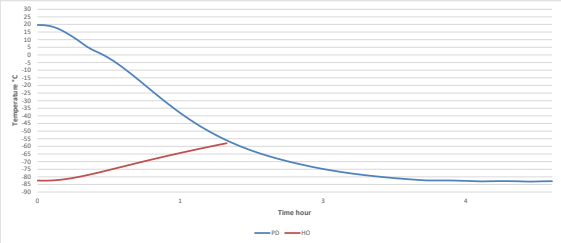


MODEL	VTS 098
Test type	8-point test
Test environment	Controlled conditions, empty cabinet
Ambient temperature	20°C
Humidity	60%
Set-point	-82°C
Sensor used	25gr tinned brass formed as a cylinder with a diameter of 15,2 mm
Installation	Appliance installed according to instruction manual conditions
Refrigerant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

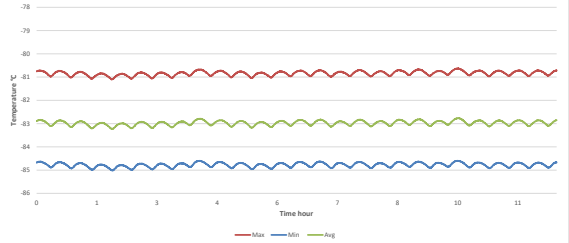
SENSOR TEMPERATURE

Sensor position	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	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



CYCLIC OPERATION



TYPICAL PERFORMANCE IN AMBIENT 20°C - EMPTY CABINET

Avg. cabinet temperature	-83°C
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

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