



DIMENSIONS	
Outer Dimensions HxWxD, mm	836x947x720
Depth incl. door handle	790
Inner Dimensions HxWxD, mm	310x640x445
Weight Gross/Net, kg	137 / 102
Material inner cabinet	Stainless steel
Material outer cabinet	Painted Steel
Packaging weight, kg	35
Packaging dimensions HxWxD, mm	1030x1040x850
Insulation thickness	120
Insulation type	Polyurethane with Cyclopentane
Mobility	3 x adjustable feet, 3 x castors
Refrigerant, Type / gram	Nature R 2/149gr
FEATURES	
Lock	☐
LED light	0
Battery Backup for Controller, 24h	
Porthole	
Porthole size	20 mm
Dry contact	
Door reversibility	0
Vacuum valve	
VIP (Vacuum Insulated Panel)	Ø
STORAGE	
Capacity (L)	88
ALARMS	
High / Low temperature	Image: Control of the
Open door	
Power failure	
Probe failure	
COOLING	
Refrigerant	Nature R
Noise	< 48
Voltage	100-240 V
Frequency	50/60 Hz
Temperature range	-20/-86
Ambient condition	25 ℃
	-



Voltage/Frequency	Voltage/Hz	100-240 V, 50/60Hz
Max Ambient	°C	32
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	+/- 2,5
Pull down time	Minutes	103 min. to -75°C
Hold over time	Minutes	N/A
Noise	dB	< 48
Energy Consumption, kWh / 24h	kWh/24h	5,22 kWh/24h set -80°C
Energy year	kWh/year	1905kWh/y set -80°C
nstant Power Consumption	kW	PD 0,650/Stable 0,280
Heat Rejection*	W	250
J-Value	W/m^2 K	N/A
COOLING COMPONENTS		
Refrigerant/Amount (gram)		Nature R 2/149gr
Number of compressors	pcs	1
Variable speed compressor	Yes/No	Yes
Internal air distribution (type of)		Static
Evaporator Fan	Yes/No/Variable	No
Condenser Fan	Yes/No/Variable	Yes
Number of probes	pcs	2
Defrost	Yes/No	No
CONTROLLER		
Controller	y/n/optional	Yes
Controller type		i-Care touch
USB Connection	y/n	Yes
Data connection	USB	Yes
Controller abilities		Logging of data & alarms
Controller languages	_	
Controller languages		EN, DE, FR

 $^{^{\}ast}$ Heat Rejection is defined as average power based on energy consumption, rounded up to nearest 50W.

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	R PO	SITIOI	N					MODEL ULTF-9						.TF-9	
FRONT VIEW TOP VIEW								Test ty	ре					8-	point te
1	2	3		1_7		4		Test environment					Contr		ondition y cabine
								Ambient temperature							25°
					2_5_8			Humidity							60
6	5	4						Set-point							-82°
7	8	9		6		3_9		Sensor used				inned br er with c			
								Installation				Appliand instru	ce instal		
								Refrige	erant						Nature
ENSC	R TEN	/IPER/	ATURE												
															Т
ensor osition	PΊ	P2	P3	P4	P5	P6	P7	P8	P9						
	P1 -78,8	P2 -79,6	P3 -79,8	P4 -80,1	P5	P6 -81,0	P7	P8	P9						
osition															
osition lax	-78,8	-79,6	-79,8	-80,1	-80,5	-81,0	-83,1	-83,0	-83,6						
osition lax vg. lin.	-78,8 -77,7	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1	-83,0 -81,8 -82,4	-83,6 -82,4	PERAT	ΓΙΟΝ				
osition lax vg. lin.	-78,8 -77,7 -78,3	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1	-83,0 -81,8 -82,4	-83,6 -82,4 -83,0	PERA	ΓΙΟΝ				
osition ax vg. in.	-78,8 -77,7 -78,3	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1	-83,0 -81,8 -82,4	-83,6 -82,4 -83,0	PERAT	ΓΙΟΝ	1			
osition ax vg. in. VARM	-78,8 -77,7 -78,3	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1	-83,0 -81,8 -82,4 CYC	-83,6 -82,4 -83,0	PERAT	ΓΙΟΝ	•			
osition ax vg. in. VARM	-78,8 -77,7 -78,3	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1 -82,6	-83,0 -81,8 -82,4 CYC	-83,6 -82,4 -83,0	PERA	ΓΙΟΝ				
osition ax vg. VARM 40 20 0	-78,8 -77,7 -78,3	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1 -82,6	-83,0 -81,8 -82,4 CYC	-83,6 -82,4 -83,0	PERA	ΓΙΟΝ				
osition ax vg. in. VARM	-78,8 -77,7 -78,3	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1 -82,6	-83,0 -81,8 -82,4 CYC	-83,6 -82,4 -83,0	PERAT	ΓΙΟΝ				
vg. VARM	-78,8 -77,7 -78,3	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1 -82,6	-83,0 -81,8 -82,4 CYC	-83,6 -82,4 -83,0	PERA	ΓΙΟΝ				
osition ax vg. iin. VARM	-78,8 -77,7 -78,3	-79,6 -78,4 -79,1	-79,8 -78,7 -79,3	-80,1 -78,9 -79,5	-80,5 -79,5	-81,0 -80,1	-83,1 -82,1 -82,6	-83,0 -81,8 -82,4 CYC	-83,6 -82,4 -83,0 LIC O	PERA	TION 10	15		220	25

TYPICAL PERFORMANCE IN AMBIENT 25°C - EMPTY CABINET				
Avg. cabinet temperature at -82°C setpoint	-81,1°C			
Uniformity	+/- 2,5°C			
Stability	1,1°C			
1 min. door open recovery to -75°C	32 min.			
Cycle rate -82°C setpoint on/off	50/5 min./min.			
Duty cycle -82°C setpoint	90%			
Energy consumption	5,22 kWh/day			
Pull down time to -75°C avg. temperature	103 min.			
Hold over time from avg82°C to -60°C	102 min.			
Heat rejection	250 W			