

Technical Data Sheet ULT Freezer -90°C



MANUFACTURER

KW Apparecchi Scientifici S.r.l.

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MODEL

K9058 HPL IN

Upright Ultra-low Temperature Freezer

TECL	INIIZ	- 41	CI	1 6 1

	TECHNICAL CHARACTERISTICS		
Storage Volume		358 lt	
Г	Boxes (h=2") Capacity	240 (with full load of 20 racks)	
	Temperature Range	-50°C / -90°C	
	Climate Class	N	
Г	Power Supply	220V-230V / 1 / 50-60Hz	
Г	Power Consumption	0,8 Kw	
П	Noise Level	< 52 dB	

Pressure transducer intervention failure

STRUC	CTURE

330.3			
Internal Surface	Stainless Steel AISI 304	Shelves	n°3 in AISI 304 S.S. + base
External Surface	White pre-painted steel sheet	Compartments	4
External Dimensions	105 W x 84 D x 189 H cm	105 W x 84 D x 189 H cm Inner Doors	
Internal Dimensions	70 W x 46 D x 111 H cm	Handle	Ergonomic design with key lock system
Weight	270 kg	Door Type	One wing, solid type
Shipping Size	130 W x 115 D x 220 H cm	Door Sealing	Heated triple silicone gasket
(with wooden crate)	370 kg	6	4 pivoting wheels (front wheels w/brake)
Int/Ext Edges	Rounded for easy cleaning	Standard Equipment	Int/Ext pass-through hole
Insulation	140 mm (High density PUR foam)		Pressure compensation valve
DEEDICED ATION SYSTEM			

REFRIGERATION SYSTEM

Cooling System	Fully sealed circuit with n.2 hermetic compressors arranged in cascade			
Refrigerant Gases (HC)	1° Stage	R1270	2° Stage	R1150
Evaporating System	Copper tube coil thermally connected to the outer peripheral surface of the inner case			
Condensing System	Air-type high-surface condenser, for forced air circulation			
Defrost	Manual			

DIGITAL CONTROL SYSTEM



HPL (High Performance Line)	The state of the s		
Display	Display touch-screen TFT 7" - Microprocessor ARM9 technology (n°2 indipendent motherboards)		
T Regulation Accuracy	± 0	.1°C	
Thermal Probes	n.2 thermal probes RTD Pt100 class A (n.	.1 for thermoregulation - n.1 for T alarm)	
Available Languages	Italian / English / Fren	ch / Spanish / German	
Data Recording Format	SQLite (Tracer® software	included for data reading)	
Access Control	Access to controller functions via safety password		
Maintenance	Possibility to connect remotely via IP address		
	Real-time temperature graph on display		
	Disaster recovery (the freezer continues to run even in the event of a CPU failure)		
Special Functions	Safety control (the freezer continues to operate even if the control probe breaks)		
Special Fullctions	Data logger function (Automatic recording of temperatures and alarms)		
	Key test (the user can simulate alarm conditions with a simple key pressure)		
	Info test (The functional test performed in the factory can be repeated by the user)		
Connectivity	USB port	Ethernet port	
Connectivity	SD Card port	Dry contacts for remote alarms	
	High/Low temperature	Faulty probes	
	Power failure alarm with back-up battery	Compressor timing failure	
Alarms List	Door open	High temperature condenser	
(Audio/Visual)	High condenser pressure	Dirty condenser	
	Battery failure	Communication failure with motherboards	

OPTIONAL ACCESSORIES AVAILABLE ON REQUEST

Pressure switch intervention failure

24V CO2 backup system for mechanical failure	Additional RTD Pt 100 probe	
24V LN2 backup system for mechanical failure	Additional RTD Pt 100 probe with 4-20mA converter	
12V CO2 backup system for mechanical/electric failure	Weekly cycle chart disk recorder (n°52 spare disks included)	
12V LN2 backup system for mechanical/electric failure	Strip-chart electronic recorder	
Water condensing device with automatic barostatic valve	GSM Module and SIM Card port activation	
4000VA power voltage stabilizer	Electric lock for door opening through PIN/Transponder/Finger print	
Additional shelf in AISI 304 stainless steel	Wi-Fi router	
Transparent panel for display cover		