APPARECCHI SCIENTIFICI

Technical Data Sheet

ULT Freezer -86°C

		MANUFACTURER KW Apparecchi Scientifici S.r.l. Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy			
R	Via della Resis	stenza 1.			
			MODEL K5578 HPL IN		
(NW)		Chest -	Chest Type Ultra-low Temperature Freezer		
		TECHNICAL CHARACTERISTICS			
		Storage Volu		801 lt	
		Boxes (h=2") Ca		576 (with full load of 48 racks)	
		Temperature R		-40°C / -86°C	
		Climate Cla	-	-40 C / -80 C	
		Power Supp		220V-230V / 1 / 50-60Hz	
				0,7 kW	
		Power Consum Noise Leve		< 52 dB	
	стри	CTURE	21	< 52 UB	
Internal Surface	STRU Stainless Steel AISI 304	Door Lock	,	Closing hooks with key lock	
External Surface	White pre-painted steel sheet	Insulation		140 mm (High density PUR foam)	
External Dimensions	249 W x 98 D x 110 H cm	Inner Door		2	
Internal Dimensions					
	178 W x 60 D x 75 H cm	Door Type		One wing, solid type	
Weight	440 kg	Door Sealin	ıg	Heated triple silicone gasket	
Shipping Size (with wooden crate)	270 W x 120 D x 140 H cm	Standard		4 pivoting wheels (front wheels w/brake	
	570 kg	Equipment		Int/Ext pass-through hole	
Int/Ext Edges	Rounded for easy cleaning			Pressure compensation valve	
Cooling System		TION SYSTEM	maroccar	c arranged in cascado	
Cooling System	· · ·			s arranged in cascade	
Refrigerant Gases	5	.270		tage R170	
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 Manual				
Defrost					
	DIGITAL CON	ITROL SYSTEM			
HPL					
(High Performance Line)		4,4* K T			
D : 1	D: 1				
Display	Display touch-screen TFT 7" - Microprocessor ARM9 technology (n°2 indipendent motherboards)				
T Regulation Accuracy	$\pm 0.1^{\circ}$ C				
Thermal Probes	n.2 thermal probes RTD Pt100 class A (n.1 for thermoregulation - n.1 for T alarm)				
Available Languages	Italian / English / French / 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					
Special Functions	Real-time temperature graph on display				
	Disaster recovery (the freezer continues to run even in the event of a CPU failure)				
	Safety control (the freezer continues to operate even if the control probe breaks)				
	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	
	SD Card port		Dry contacts for remote alarms		
Alarms List	High/Low temperature			Faulty probes	
	Power failure alarm with back-up battery		Compressor timing failure		
	Door open		High temperature condenser		
(Audio/Visual)	High condenser pressure		Dirty condenser		
	Battery failure		Communication failure with motherboards		
	Pressure switch intervention fa			ure transducer intervention failure	
	OPTIONAL ACCESSORIES	AVAILABLE ON	-		
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			
ممامله ممر المام ٨	Wi-Fi router				
	If in AISI 304 stainless steel			WI-FITOULEI	