







MANUFACTURER

KW Apparecchi Scientifici S.r.l.

Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy

MODEL

K9060 HPL IN

Upright Ultra-low Temperature Freezer		
TECHNICAL CHARACTERISTICS		
Storage Volume	506 lt	
Boxes (h=2") Capacity	320 (with full load of 20 racks)	
Temperature Range	-50°C / -90°C	
Climate Class	N	
Power Supply	220V-230V / 1 / 50-60Hz	
Power Consumption	0,8 Kw	
Noise Level	< 52 dB	

STRUCTURE			
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 103 D x 189 H cm	Inner Doors	4
Internal Dimensions	70 W x 65 D x 111 H cm	Handle	Ergonomic design with key lock system
Weight	300 kg	Door Type	One wing, solid type
Shipping Size	130 W x 130 D x 220 H cm	Door Sealing	Heated triple silicone gasket
(with wooden crate)	400 kg		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)	Equipment	Pressure compensation valve

	F	REFRIGERATION SYSTEM	VI	
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 CONTI	KUL 3131 EIVI	

HPL (High Performance Line)	e e a.			
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	n.2 thermal probes RTD Pt100 class A (n.1 for thermoregulation - n.1 for T alarm)		
Available Languages	Italian / English / Fren	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			
	Real-time temperat	ure graph on display		
Special Functions	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		
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		
	Pressure switch intervention failure	Pressure transducer intervention failure		

OPTIONAL ACCESSORIES AVAILABLE ON REQUEST	
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	