
	MANUFACTURER			
	KW Apparecchi Scientifici S.r.l.			
	Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy			
	MODEL			
	KUB75 HPL IN			
	Under the counter Ultra-low Temperature Freezer			
	TECHNICAL CHARACTERISTICS			
	Storage Volume	86 lt		
	Boxes (h=2") Capacity	48 (with full load of 6 racks)		
	Temperature Range	-40°C / -86°C		
Climate Class	N			
Power Supply	220V-230V / 1 / 50-60Hz			
Power Consumption	0,5 Kw			
Noise Level	< 52 dB			
STRUCTURE				
Internal Surface	Stainless Steel AISI 304	Shelves	n°1 in AISI 304 S.S. + base	
External Surface	White pre-painted steel sheet	Compartments	2	
External Dimensions	99 W x 64 D x 78 H cm	Inner Doors	1	
Internal Dimensions	43 W x 35 D x 59 H cm	Handle	Ergonomic design with key lock system	
Weight	100 kg	Door Type	One wing, solid type	
Shipping Size (with wooden crate)	120 W x 90 D x 105 H cm	Door Sealing	Heated triple silicone gasket	
	150 kg	Standard Equipment	4 pivoting wheels (front wheels w/brake)	
Int/Ext Edges	Rounded for easy cleaning			
Insulation	150 mm (PUR 120 mm + V.I.P. 30 mm)			
REFRIGERATION SYSTEM				
Cooling System	Fully sealed circuit with n.2 hermetic compressors arranged in cascade			
Refrigerant Gases (HC)	1° Stage	R1270	2° Stage	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			
Defrost	Manual			
DIGITAL CONTROL SYSTEM				
HPL (High Performance Line)				
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 / 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 (Audio/Visual)	High/Low temperature		Faulty probes	
	Power failure alarm with back-up battery		Compressor timing failure	
	Door open		High temperature condenser	
	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				