
	MANUFACTURER			
	KW Apparecchi Scientifici S.r.l.			
	Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy			
	MODEL			
K64 HTS IN UP V				
Upright Ultra-low Temperature Freezer				
TECHNICAL CHARACTERISTICS				
Storage Volume	708 lt			
Boxes (h=2") Capacity	500 (with full load of 20 racks)			
Temperature Range	-50°C / -86°C			
T stability	± 0,2°C (with set point -80°C)			
T uniformity	± 4°C (with set point -80°C)			
Climate Class	N			
Power Supply	220V-230V / 1 / 50-60Hz			
Power Consumption	0,6 Kw			
Noise Level	< 45 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	116 W x 107 D x 205 H cm	Inner Doors	4	
Internal Dimensions	80 W x 69 D x 128 H cm	Handle	Ergonomic design with key lock system	
Weight	350 kg	Door Type	One wing, solid type	
Shipping Size (with wooden crate)	135 W x 130 D x 225 H cm	Door Sealing	Heated triple silicone gasket	
	450 kg	Standard Equipment	4 pivoting wheels (front wheels w/brake)	
Int/Ext Edges	Rounded for easy cleaning		Int/Ext pass-through hole	
Insulation	140 mm (PUR 80 mm + V.I.P. 60 mm)		Pressure compensation valve	
REFRIGERATION SYSTEM				
Cooling System	Fully sealed circuit			
	n°2 hermetic compressors at variable speed equipped with inverter, arranged in cascade			
Refrigerant Gas	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				
HTS (High Technology System)				
Display	Display Touch-Screen TFT 7" - Microprocessor technology (n.2 independent 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	CSV (Excel)			
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)			
	Environmental adaptability (separate management of the condenser fans)			
	Key test (The user can simulate alarm conditions by simply pressing a button)			
Connectivity	Data logger function (Automatic recording of temperatures and alarms data)			
	USB port	Dry contacts for remote alarms		
	SD Card port	Bridge RS485 port with ModBus protocol		
Alarm List (Audio/Visual)	Min/Max Temperature	Faulty probes		
	Power failure alarm	Compressor alarm		
	Door open	High T in condensation		
	High condenser pressure	Dirty condenser		
	Battery 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 bridge			
4000VA power voltage stabilizer	Electric lock for door opening through PIN/Transponder			
Additional shelf in AISI 304 stainless steel	Wi-Fi router			
Transparent panel for display cover	Ethernet port			