



**MANUFACTURER**

KW Aparecchi Scientifici S.r.l.  
Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy

**MODEL**

K62S HPL IN - 2D  
Upright Ultra-low Temperature Freezer

**TECHNICAL CHARACTERISTICS**

Storage Volume	606 lt
Boxes (h=2") Capacity	320 (with full load of 20 racks)
Temperature Range	-40°C / -86°C
Climate Class	N
Power Supply	220V-230V / 1 / 50-60Hz
Power Consumption	0,7 kW (1,4 kW with booster function)
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	116 W x 105 D x 202 H cm	Inner Doors	4
Internal Dimensions	80 W x 59 D x 128 H cm	Handle	Ergonomic design with key lock system
Weight	330 kg	(n°2) Door Type	One wing, solid type
Shipping Size (with wooden crate)	140 W x 120 D x 225 H cm	Door Sealing	Heated triple silicone gasket
	430 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 (High density PUR foam)		Pressure compensation valve

**REFRIGERATION SYSTEM**

Cooling System	Double independent refrig. systems (4 compressors + 2 evaporators) arranged in cascade			
	Alternate operation with fully automatic management			
	The life span of the engines has almost doubled, with mechanical wear being halved			
	If one system fails, the control system signals the event and excludes the system in failure			
Refrigerant Gases	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**

<b>HPL (High Performance Line)</b>			
Display	Display touch-screen TFT 7" - Microprocessor ARM9 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	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)		
Connectivity	USB port		Ethernet port
	SD Card port		Dry contacts for remote alarms
	High/Low temperature		
Alarms List (Audio/Visual)	Power failure alarm with back-up battery		Faulty probes
	Door open		Compressor timing failure
	High condenser pressure		High temperature condenser
	Battery failure		Dirty condenser
	Pressure switch intervention failure		Communication failure with motherboards
			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	