

	MANUFACTURER			
	KW Apparecchi Scientifici S.r.l.			
	Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy			
	MODEL			
	K60 PL ADV 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	-40°C / -86°C		
Climate Class	N			
Power Supply	220V-230V / 1 / 50-60Hz			
Power Consumption	0,7 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 (with wooden crate)	130 W x 130 D x 220 H cm	Door Sealing	Heated triple silicone gasket	
	400 kg	Standard Equipment	4 pivoting wheels (front wheels w/brake)	
Int/Ext Edges	Int/Ext pass-through hole			
Insulation	140 mm (High density PUR foam)			
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				
PL ADV				
Display	White and blue 7-segments display - 5 keys capacitive keyboard			
	Simultaneous display of the monitor probe and the set point			
	n.2 thermal probes RTD Pt 100 class A (n.1 for thermoregulation - n.1 for T alarm)			
T Regulation Accuracy	± 0.1°C			
Access Control	Access to controller functions via safety password			
Maintenance	Supervision and remote assistance via Cloud			
	On-site supervision via dedicated APP ConneX (iOS and Android) and web pages			
Special Functions	In the event of a faulty probe, the probe keeps the T on the average of historical cycles			
	Data logger function (3Mb flash memory)			
	Buzzer with autosilence and reset function			
	Test circuit and battery recharge			
Connectivity	Internal Wi-Fi module	Wireless programming of parameters		
	Alert messaging by email	Receipt of the weekly graphic report by email		
	Dry contacts for remote alarm signals	Data download via the ConneX APP (no USB needed)		
Alarm List (Audio/Visual)	Power failure with back-up battery	System overpressure		
	High/Low temperature	Door open		
	Faulty probes	No communication between motherboards		
	High condenser temperature	Compressor timing failure		
	Pressure switch intervention failure	Pressure transducer intervention failure		
OPTIONAL ACCESSORIES AVAILABLE ON REQUEST				
24V CO2 backup system for mechanical failure		Additional shelf in AISI 304 stainless steel		
24V LN2 backup system for mechanical failure		Additional RTD Pt 100 probe		
12V CO2 backup system for mechanical/electric failure		Additional RTD Pt 100 probe with 4-20mA converter		
12V LN2 backup system for mechanical/electric failure		Weekly cycle chart disk recorder (n°52 spare disks included)		
Water condensing device with automatic barostatic valve		Strip-chart electronic recorder		
4000VA power voltage stabilizer		Electric lock for door opening through PIN		
Transparent panel for display cover		Ethernet expansion module		