

	MANUFACTURER			
	KW Apparecchi Scientifici S.r.l.			
	Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy			
	MODEL			
	KPFF 24B			
	Shock freezer for Plasma on contact			
	TECHNICAL CHARACTERISTICS			
	Wells	6		
	Plasma Bags Capacity	24 (450 ml filled with 280 ml)		
		8 (1000 ml filled with 650 ml)		
6 (1000 ml filled with 800 ml)				
Freezing Time	30-40 min			
T Regulation Range	-70°C/-80°C			
T Setting Resolution	± 0,1°C			
T Reading Accuracy	± 0,5°C			
Recovery time	max 20 min. after freezing cycle			
T Ambient	max +32°C			
Power Supply	220/230V - 50/60Hz			
Noise Level	<60 dB			
Nominal Power	2,6 kW			
STRUCTURE				
Wells	Stainless Steel AISI 304	Insulation	PUR foam (175 mm)	
External Surface	Satin-finished AISI 304 steel sheet	Door	Mounted on hinges with ABS cover	
Handle	Ergonomic design	Standard Equipment	n°4 pivoting wheels	
Sealing	Triple silicone gasket		Door-lock with key	
External Dimensions	120 W x 90 D x 125 H cm	Shipping Size (with wooden crate)	140 W x 100 D x 155 H cm	
Weight	250 kg		340 kg	
FREEZING SYSTEM				
Vertical Freezing	The plasma bags are placed vertically in wells whose walls are at -80°C			
	Forces air (possibly present in the plasma bag) upward, minimizing the risk of bag rupture			
Min. Maintenance	No ice formation in the area surrounding the wells and in the sealing gaskets			
Reset T Set -75°C	Max 20 minutes after the extraction of a full load of bags			
Cooling System	Fully sealed circuit with n.2 hermetic compressors arranged in cascade			
Refrigerant Gas	1° Stage	R455a	2° Stage	R508b
Evaporating System	Copper tube coil thermally connected to the outer peripheral surface of the freezing wells			
	Powered by thermostatic expansion valve with external equalizer for maximum fluid injection			
THERMOREGULATION AND CONTROLS				
µP Digital electronic controller, with LED display				
Functional LEDs	Cooling: indicates that refrigeration is in progress			
	Alarm: presence of T min / max alarm			
	Timer: indicates that the freezing time (which can be set by the user) is counting			
	Power failure: visual acoustic alarm energy failure self-powered by its own 12 Vdc 1.2A battery			
	Remote control of signals: alarms are integrated and connected to a remote signal repeater			
RTS SYSTEM - BAGS TEMPERATURE RECORDER (OPTIONAL)				
RTS System				
Display	Display Touch-Screen TFT 7" - Microprocessor ARM9 technology			
Available Languages	Italian / English / French / Spanish / German			
Functionality	Reading and recording up to a maximum of 8 RTD Pt 100 probes			
	Selection of the active recording probe with the exclusion of the remaining ones			
	Association of barcodes related to bags related to the air / sample bag temperature trace			
	Possibility to select together with the bar code, the type of bag: large (650ml) or small (260ml)			
	Enabling a clean digital input for synchronizing the start of recording with the start of the unit abatement			
	Enable output on/off switch to stop the cycle of freezing when the pre-set temperature is reached in all pockets connected during the test cycle of freezing data management			
Data Management	SD Card		USB Port	
	Ethernet port		Freezing Tracer for reading of cycles/codes	
	Installation and configuration of the embedded FTP server on each machine			
OPTIONAL ACCESSORIES AVAILABLE ON REQUEST				
RTS System - Bags temperature recorder		450ml dummy bag for plasma freezing process validation		
Internal/External pass through hole		1000ml dummy bag for plasma freezing process validation		