

Technical Data Sheet Shock Freezer for Plasma (MD Class IIa)



Door open alarm

RTS System - Bags temperature recorder

MANUFACTURER

KW Apparecchi Scientifici S.r.l.

Via della Resistenza 119 - 53035 Monteriggioni (SI) - Italy

MODEL

KPFF 48B Shock freezer for Plasma on contact

TECHNICAL	CHARACTERISTI	C

TECHNICAL CHARACTERISTICS		
Wells	12	
Plasma Bags Capacity	48 (460 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	
T Ambient	max +32°C	
Power Supply	400V - 3 - 50/60Hz + N + T	
Noise Level	<65 dB	
Nominal Power	2.6 kW	

Weekly cycle chart disk recorder

Int. T probe for connection to external T recording system

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 co		Mounted on hinges with ABS cover
Handle	Ergonomic design	Ergonomic design Standard Equipment	
Sealing	Triple silicone gasket	Standard Equipment	Door-lock with key
External Dimensions	179 W x 88 D x 126 H cm	Shipping Size	200 W x 110 D x 170 H cm
Weight	350 kg	(with wooden crate)	500 kg

FREEZING SYSTEM

Vertical Freezing	The plasma bags are placed vertically in wells whose walls are at -80°C			
vertical Freezing	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 equalizerfor maximum fluid injection			

THERMOREGULATION AND CONTROLS

	THE MINISTER SELECTION AND CONTINUES	
μΡ Digital electronic controller, with LED display	E750	
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			