



Shock Freezers



For plasma and biological material



Standard equipment:

- Compression unit with separate cold transmission from the lid and the base
- Plate - water or air cooled (water pressure: 3 bar)
- Horizontal freezing process with stainless steel plates
- Night storage control (-40 C)
- Temperatures Display
 - For both of the cold plates
 - For the dummy bags
- Variable to accommodate different bag size and forms
- Connection for dummy bag sensor
- Rollable, ready-to-plug
- Serial interface
- Storing and archiving of all automatically displayed temperatures according to
 - Data, time, user
 - Entire freezing process

Optional accessories for quality assurance and documentation

- Evaluation and data acquisition software
- PC-System
- Dummy bags and sensors
- Medical device certification

Full Data Base (Software Option)

Our product-related evaluation and data acquisition software enables e.g. temperature to be displayed graphically, stored and printed. The standard Microsoft Windows version of the documentation system includes the following vital parameters:



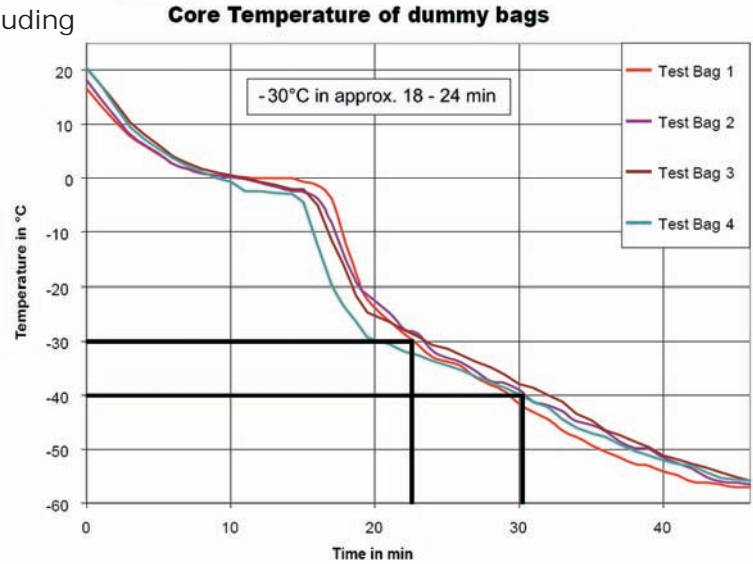
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Qualification test of Shock Freezer 12-18

18 plasma bags with 350 ml including
4 dummy bags with plasma



Shock Freezer 12-18



Technical data	Shock Freezer 12-18	Shock Freezer 16-24	Shock Freezer 48-32	
Core temperature / freezing time				
- For standard bags 500 ml (max. 450 ml) - 30 C		Approx. 30 min		
- For large bags 1000 ml (max. 850 ml) -30 C		Approx. 40 min		
Start-up time (preparation time)		-60 C within 10 - 15 min.		
Defrosting proces		Approx. 10 min		
Noise volume		Less than 65dB(A)		
Refrigerant		R 507 (CFC/HCFC free)		
Capacity:	Standard plasma bags 500ml Standard plasma bags 1000ml	18 12	24 16	48 32
Dimensions (width/height/length) (mm):		1250x1260x890	1450x1260x890	2200x1900x1000
Energy consumed by one freezing process:				
- Standard bags (450ml.) approx. (kWh)		1,2	1,6	3,2
- Large bags (850ml.) approx. (kWh)		1,8	2,4	4,8
Weight (empty) (kg):		350	400	800
Electrical power supply:		Approx. 6kW/400V~/16A CEE plug		
Recommended buck-up:		3 x 16A with C characteristic		



Shock Freezer 32-48