MVE Variō™ Series





The MVE Variō[™] Series is the new innovative and energy efficient alternative for ultra low temperature to cryogenic storage. The completely dry sample storage area will maintain a user-defined temperature anywhere between -20°C and -150°C. The MVE Variō Series significantly reduces the possibility of sample contamination via contact with LN2 while providing the safety margin and consistent temperature profile, even with the lid open, that is associated with LN2 based cryogenic storage. The MVE Variō Series is able to provide all of this with less than 1% of the power consumption and approximately 70% overall operating cost savings when compared to the leading mechanical freezers.

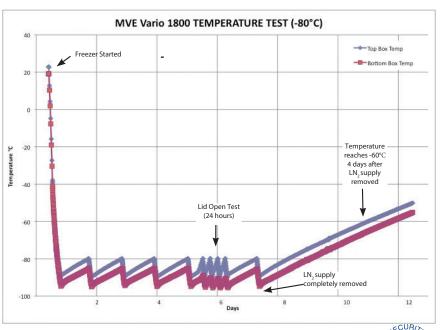
Features include:

- Approximately 70% operating cost savings compared to leading mechanical freezers (-80 °C)
- \bullet Less than 1% of the electricity consumption compared to leading mechanical freezers (-80 °C)
- Completely dry storage area
- Consistent temperature profile, even with lid open
- Improved processing time, minimal increase in temperature when warm samples introduced
- No thermal load; no heat introduced into room and no additional HVAC required
- No more expensive compressors to replace
- Convertible asset: Can be field retrofitted to be a traditional LN2 freezer



Temperature Test Graph

* Temp Test indicates typical performance of MVE Variō Series freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

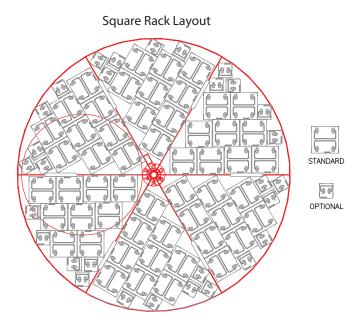


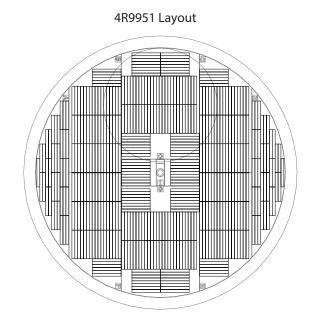
Go to www.chartbiomed.com for more information.



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Rack Layouts





	MVE Variō 1536P		MVE \	MVE Variō 1539R			MVE Variō 1879P			MVE Variō 1881R			
Maximum Storage Capacity	1												
1.2 & 2 ml Vials (Internally Threaded)) 36.400			(39.000			79.950			81.900		
Number of Racks 100 cell boxes	24				26			54			60		
Number of Racks 25 cell boxes	16				16			30			12		
Number of Stages per Rack	13				13			13			13		
Performance													
Temperature Range	-20°C, -150°C			-20	-20°C, -150°C			-20°C, -150°C			-20°C, -150°C		
LN, Usage at -80°C L/day	9				9			12			12		
Power consumption (cont.) W	8				8			8			8		
Unit Dimensions													
Neck Opening in. (mm)	17,5 (445)			17	17,5 (445)			25,0 (635)			25,0 (635)		
Usable Internal Height in. (mm)	28,8 (732)		28	28,8 (732)			29,5 (749)		29,2 (741)				
Inner Diameter in. (mm)	38,5 (978)		38	38,5 (978)			56,0 (1.422)		54,8 (1.391)				
Overall Height in. (mm)	61,3 (1.556)			61,	61,3 (1.556)			62,1 (1.577)			61,3 (1.556)		
Door Width Requirement* in. (mm)	42,0 (1.067)		42,	42,0 (1.067)			60,0 (1.524)			60,0 (1.524)			
Weight Empty Ib. (kg)	690 (313)			69	690 (313)			1.606 (728)			1.721 (781)		
Blood Bag Capacities													
		Bags/ Frame Fr	No. ames	Total I Bags F	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	
791 OS/U (25 ml)	3.080	7	440	2.786	7	398	5.866	7	838	5.628	7	804	
Compact (25 ml)	4.338	9	482	3.924	9	436	8.622	9	958	9.414	9	1.046	
4R9951 <i>(50 ml)</i>	1.488	6	248	1.446	6	241	2.952	6	492	2.940	6	490	
4R9953 (250 ml)	812	4	203	768	4	192	1.584	4	396	1.608	4	402	
4R9955 <i>(500 ml)</i>	608	4	152	576	4	144	1.104	4	276	1.240	4	310	
DF200 (200 ml)	496	4	154	488	4	122	960	4	240	984	4	246	
DF700 (700 ml)	256	4	64	204	4	66	504	4	126	544	4	136	

TWO Year Standard Warranty • FIVE Year Vacuum Warranty

Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU. *Minimum width required for vessel to pass through opening. Footprint may vary. Contact Tech Service for detailed drawings.

