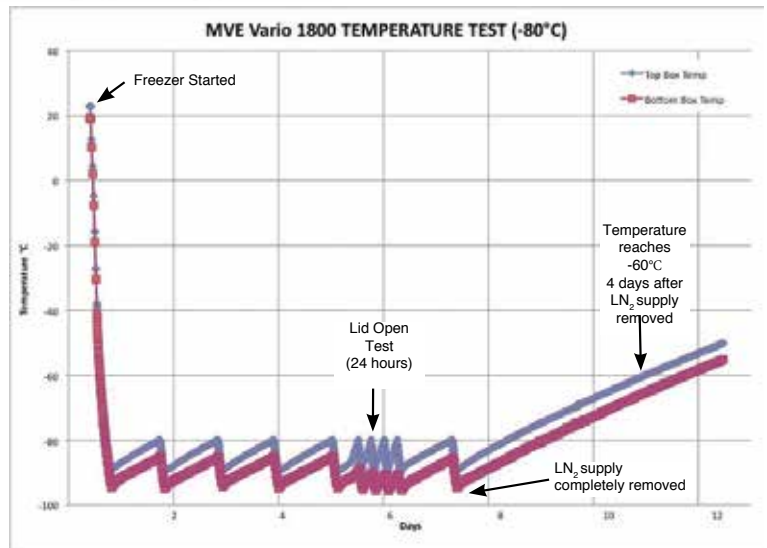


MVE Variō™ Series

The MVE Variō™ Series is the 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)
- 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 retrofitted to expand temperature range to -190

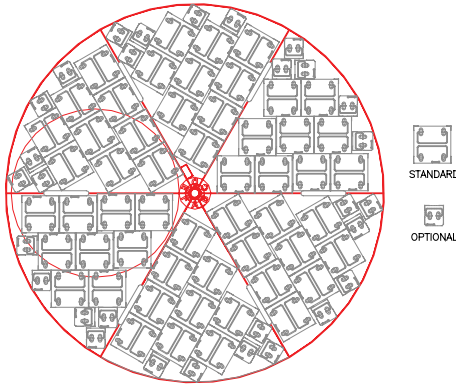


Temperature Test Graph

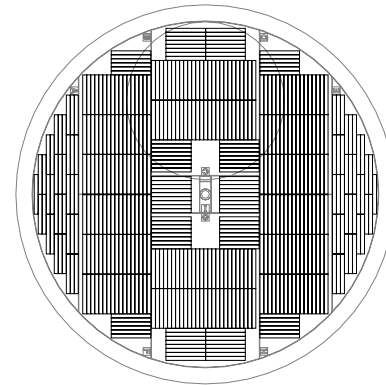
* Temp Test indicates typical performance of MVE Variō Series freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.

Rack Layouts

Square Rack Layout (P)



4R9951 Layout (R)



	MVE Variō 1536P			MVE Variō 1539R			MVE Variō 1879P			MVE Variō 1881R			MVE Variō 1894R		
Maximum Storage Capacity															
1.2 & 2 ml Vials (Internally Threaded)	36,400			39,000			79,950			81,900			94,500		
Quantity of Large Racks 100 cell boxes	24			26			54			60			60		
Quantity of Mini Racks 25 cell boxes	16			16			30			12			12		
Number of Shelves per Rack	13			13			13			13			15		
Performance															
Temperature Range	-20°C, -150°C			-20°C, -150°C			-20°C, -150°C			-20°C, -150°C			-20°C, -150°C		
LN2 Usage at -80°C L/day	9			9			12			12			15		
Power consumption (cont.) W	8			8			8			8			8		
Unit Dimensions															
Neck Opening in. (mm)	17.5 (445)			17.5 (445)			25.0 (635)			25.0 (635)			25.0 (635)		
Usable Internal Height in. (mm)	28.8 (732)			28.8 (732)			29.5 (749)			29.2 (741)			34.2 (868)		
Inner Diameter in. (mm)	38.5 (978)			38.5 (978)			56.0 (1,422)			54.8 (1,391)			54.8 (1,391)		
Overall Height in. (mm)	61.3 (1,556)			61.3 (1,556)			62.1 (1,577)			61.3 (1,556)			66.3 (1,683)		
Door Width Requirement** in. (mm)	42.0 (1,067)			42.0 (1,067)			60.0 (1,524)			60.0 (1,524)			60.0 (1,524)		
Weight Empty* lb. (kg)	690 (313)			690 (313)			1,606 (728)			1,721 (781)			1,721 (781)		
Blood Bag Capacities															
	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames	Total Bags	Bags/ Frame	No. Frames
791 OS/U Medsep (25 ml)	3,080	7	440	2,786	7	398	5,866	7	838	5,628	7	804	6,432	8	804
Compact (25 ml)	4,338	9	482	3,924	9	436	8,622	9	958	9,414	9	1,046	11,506	11	1,046
4R9951 (50 ml)	1,488	6	248	1,446	6	241	2,952	6	492	2,940	6	490	3,920	8	490
4R9953 (250 ml)	812	4	203	768	4	192	1,584	4	396	1,608	4	402	2,010	5	402
4R9955 (500 ml)	608	4	152	576	4	144	1,104	4	276	1,240	4	310	1,550	5	310
DF200 (200 ml)	496	4	154	488	4	122	960	4	240	984	4	246	1,230	5	246
DF700 (700 ml)	256	4	64	204	4	66	504	4	126	544	4	136	680	5	136

TWO Year Parts Warranty • FIVE Year Vacuum Warranty

Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU. Freezer systems UL/C-UL Listed.

* Without inventory

**Minimum width required for vessel to pass through opening. Footprint may vary. Contact Tech Service for detailed drawings.