

MVE Variō® Series Freezers

CHART

TEMP A -142.1°C

TEMP B -197.5°C

LEVEL 5.6 in

USAGE 1.5 in/day

IDLE

START FILL

FOG CLEAR

STOP FILL

ALARM MUTE

SETUP

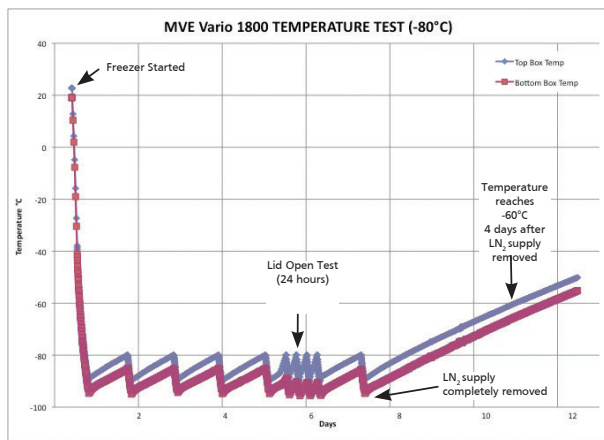


Features include

- 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
- New touch screen

Featuring the New Chart MVE Touch Screen

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.



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.

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844-MVE-CRYO



	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										
LN ₂ Usage at -80°C <i>L/day estimated</i>	9	9	15	15	15										
Power consumption (cont.) <i>W</i>	8	8	8	8	8										
Unit Dimensions															
Neck Opening <i>in. (mm)</i>	17.5 (445)	17.5 (445)	25.0 (635)	25.0 (635)	25.0 (635)										
Usable Internal Height <i>in. (mm)</i>	28.8 (732)	29.3 (745)	29.5 (749)	29.2 (741)	34.2 (868)										
Inner Diameter <i>in. (mm)</i>	38.5 (978)	38.5 (978)	56.0 (1,422)	54.8 (1,391)	54.8 (1,391)										
Overall Height <i>in. (mm)</i>	61.3 (1,556)	61.3 (1,556)	62.1 (1,577)	61.3 (1,556)	66.3 (1,683)										
Door Width Requirement** <i>in. (mm)</i>	42.0 (1,067)	42.0 (1,067)	60.0 (1,524)	60.0 (1,524)	60.0 (1,524)										
Weight Empty* <i>lb. (kg)</i>	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
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

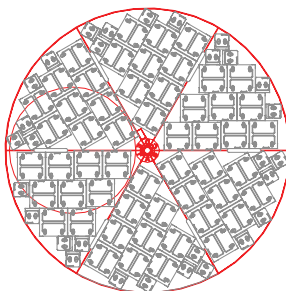
Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU. Freezer systems UL/C-UL Listed.

* Without inventory

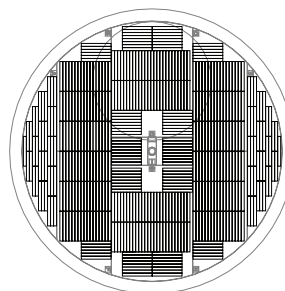
**Minimum width required for vessel to pass through opening. Footprint may vary. Contact Tech Service for detailed drawings.

Rack Layout

Square Rack Layout (P)



4R9951 Layout (R)



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