



MVE Variō™ Series

With MVE Touch Screen or Variō Pro Controller

The MVE Variō™ Series is the innovative and energy efficient alternative for ultra low temperature to cryogenic storage. With this innovative alternative to mechanical freezers, you're firmly in control. That's because both the MVE 1500 and 1800 Vario series models offer user-defined temperatures anywhere between -20°C and -150°C. And the available conversion kit allows you to operate the Vario as a high-efficiency -190C freezer.

Because the MVE Vario Series offers a completely dry sample storage area, you'll reduce the possibility of sample contamination via contact with LN₂. Compared to mechanical freezers, which allow heat to enter when opened, the MVE Vario Series offers a consistent temperature profile. Even when you open the lid or introduce warm samples to this cryogenic freezer, there's minimal temperature variability. This means you constantly protect innocent samples from transient warming events that may continue to heat them after the freezer is closed.

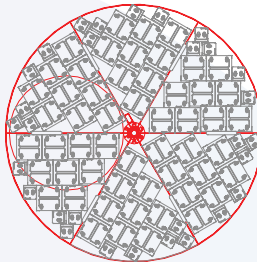
Key Features

- 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
- Available with a touch screen



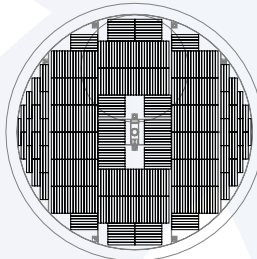
Rack Layout

Square Rack Layout (P)



STANDARD
OPTIONAL

4R9951 Layout (R)



MVE Variō™ Series

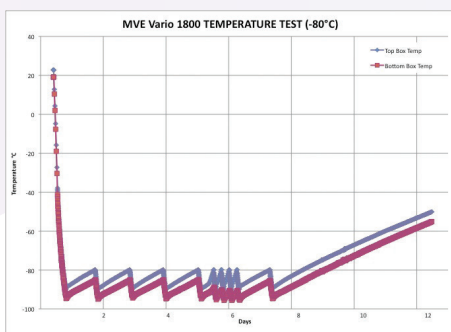
| | MVE Variō 1536P | MVE Variō 1539R | MVE Variō 1879P | MVE Variō 1881R | MVE Variō 1894R | | | | | | | | | | |
|--|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|-------------------|--------------------|-------------------|
| 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 | | | | | | | | | | |
| ○ 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) | 29.3 (745) | 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 |
| ○ 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 |

FIVE Year Vacuum Warranty • TWO Year Parts Warranty

Conforms to MDD 93/42/EEC, the Medical Device Directive for the EU. Freezer systems UL/C-UL Listed. (Only Freezers with the Variō Pro Controller)

* Without inventory

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



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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