

MVE Variō™ Series: The Solution for Future Proof Requirements

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INTRODUCTION

The MVE Variō™ Series is a cryogenic freezer with consistent, ultra low temperature for dry sample storage area. Temperature range is from -20°C to -150°C. Add the conversion kit to obtain a freezer at the temperature of -190°C.

AIM

Future proofs your storage temperature requirements. You may be storing samples today at the temperature of -80°C but tomorrow you might require storage capacity at -190°C. The MVE Variō™ Series provides such flexibility and security when handling samples.

METHOD

Patent-pending refrigeration system:

- LN₂ flows through a heat exchange system in top head of freezer
- Vaporization energy of LN₂ cools freezer
- Utilize heat capacity of LN₂ while simultaneously purging frost and moisture from storage space
- LN₂ in the heat exchanger is monitored and metered by controller to obtain completely dry storage
- Maintains user defined operating temperature
- Offset neck design, double-walled, vacuum insulated, all-stainless steel for superior performance

CONCLUSIONS

This flexibility has made the MVE Variō™ Series a key consideration in purchase decisions for things like vaccine storage.

- Uses less electricity than an alarm clock
- It does not add heat to the repository requiring expensive HVAC systems that must be maintained.
- The recovery rate is the best available. Unlike mechanical freezers that have great heat exchange when the door is open to remove samples, the Variō™ Series has minimal heat transfer when the lid is off. Additionally, its liquid nitrogen supply maintains the integrity of innocent samples better than could be regulated in a mechanical freezer. The cooling capacity of liquid nitrogen is far superior to coolants used in mechanical freezers.
- The liquid nitrogen freezer does not have a compressor to fail so you dramatically reduce risk to your samples.

REFERENCES

Please review the MVE Biological Solutions website and MVE Variō™ Product Guide for more information at www.MVEBio.com.

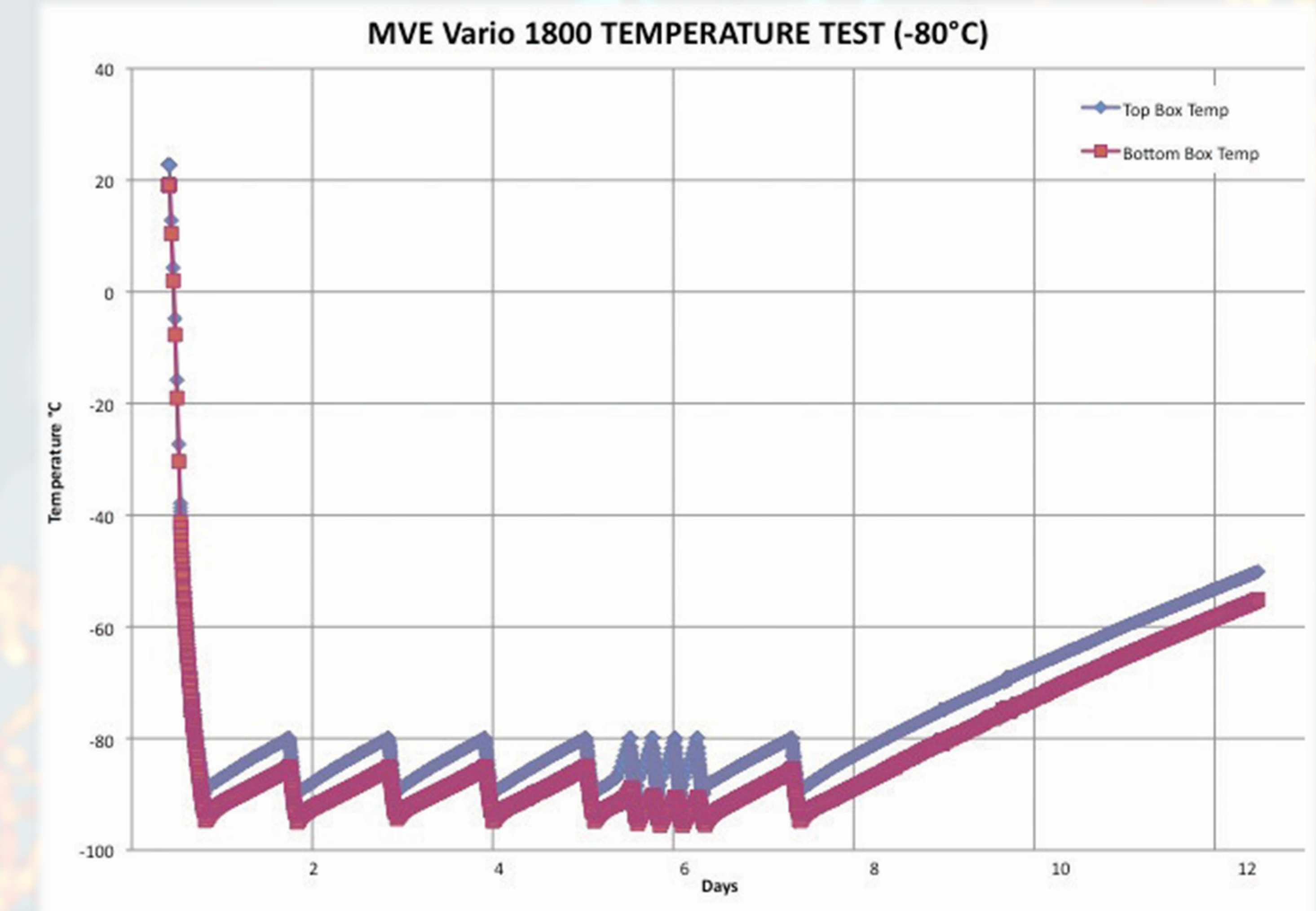
HIGHLIGHTS

- Temperature profile gives days of security without refrigerant
- Unique design for variable temperature requirements for future vaccines

CONTACT INFORMATION

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RESULTS



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.

