



MVE 816P-2T-190

Available with the TEC 3000

The MVE 816P-2T-190 freezer is designed with the fertility market in mind. With its unique two-tier tray design, it can hold vials, straws and SUC-1 canisters which are used by leading fertility clinics worldwide. A constant temperature allows for vapor storage throughout the freezer at near liquid nitrogen temperatures. The innovative inventory system incorporates a two level storage arrangement that utilizes an access portal to allow removal of product stored on the lower level.

Key Features

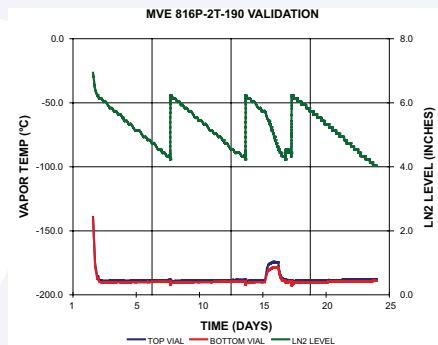
- Vapor phase storage temperature of -190°C*
- Two tier storage system maximizes capacity while minimizing floor space
- High efficiency design with offset neck for lowest possible LN₂ consumption
- Optional Battery Backup
- TEC 3000 control system with liquid level control and temperature alarms
- Optional one-or two-tier step

Innovative Storage System

Two tier storage (with cutout in top tier) allows convenient access to bottom tier.

Temperature Test Graph

Temp Test indicates typical performance of 816P-2T -190°C freezer with full inventory system and factory recommended level settings. Actual performance may vary with atmospheric conditions and usage.



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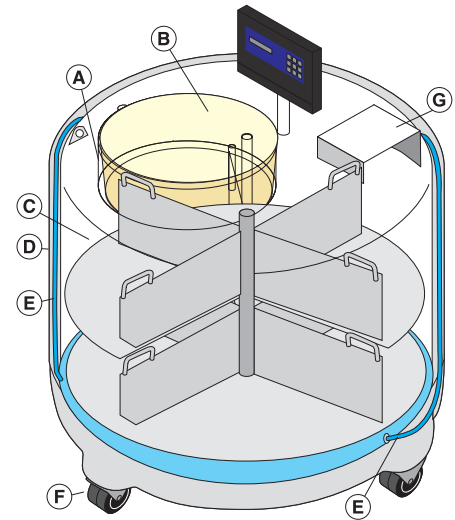
Maximum Storage Capacity	
○ 1.2 & 2 ml Vials (Internally Threaded)	10,500
○ Quantity of Large Racks 100 cell boxes	-
○ Quantity of Mini Racks 25 cell boxes	-
○ Number of Shelves per Rack	-
○ High Security Straw Capacity (0.5 ml)	31,584
○ Number of Canisters (73 mm)	94
○ Goblets/Canister : Straws/Goblet	2:168
○ Number of SUC-1 Canisters (2.5"x2.5"x11)	115
○ Number of 1.2 ml Vials on Canes	16,560
○ Number of 2.0 ml Vials on Canes	9,200
○ Number of 1/2 cc Straws 10/cane	35,650
Performance	
○ LN ₂ Capacity at Platform Vapor L est.	56
○ LN ₂ Capacity w/o Inventory L est.	381
Unit Dimensions	
○ Neck Opening in. (mm)	12.5 (317)
○ Usable Internal Height in. (mm)	13.0 (330) per level
○ Inner Dimensions in. (mm)	28.70 (728) top tier 27.70 (702) bottom tier
○ Outer Dimensions in. (mm)	32 (813mm) 33.2 (843mm) w/ handles
○ Overall Height with Auto Fill in. (mm)	58.0 (1473)
○ Door Width Requirement** in. (mm) Outer Dims	32 (813)
○ Weight Empty* lb. (kg)	475 (215)
○ Weight Liquid Full* lb. (kg) est.	1155 (524)

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.

* Without inventory

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



- A** Offset neck design minimizes liquid nitrogen consumption
- B** Lightweight composite lid is scratch and dent resistant
- C** Two level rotating tray provides easy access to samples
- D** Stainless steel construction reduces maintenance
- E** Annular (internal) filling lines minimizes frost build up and reduces maintenance requirements
- F** Durable casters equipped with brakes
- G** Lid Stand

Rack Layout

115 SUC Boxes Total

