



# MVE Tech Tips



February, 2007

## Temperature Sleeves

There has recently been some discussion on what units still have temperature sleeves built in, which have optional inserts, and which units do not have either. Before going into a discussion of which units do and do not have sleeves, it is important to know the design goals of each series of freezers. MVE and stock series freezers are designed for liquid storage, but can be used for vapor storage. Even with the vapor sleeve installed, top box temperatures below  $-125^{\circ}\text{C}$  cannot be expected. Also of note is that installation of a vapor sleeve increases liquid usage. MVE -150 (High Efficiency) and -190 (Vapor Storage) freezers are designed for vapor storage and if your customer requires reliable temperatures in vapor below  $-120^{\circ}\text{C}$ , then they should be steered towards these models.

MVE stock series freezers such as the MVE 103, MVE 811, and MVE 1318 do not have any sleeves available for them and achieve vapor a vapor temperature of  $-120^{\circ}\text{C}$  in their stock form. The MVE 1842P-150 and the MVE 1877P-2T, both stock series, achieve  $-150^{\circ}\text{C}$  in vapor phase.

Vapor sleeves are not available for any -150 (High Efficiency) or -190 (Vapor Storage) models.

The following models have built-in temperature sleeves: 510, 616, 1223, 1426, 1839.

The vapor pack includes both the hanging temperature reduction sleeve and the appropriate vapor platform for that particular freezer.

### Vapor storage accessory part numbers:

Model	Vapor Platform	Vapor Sleeve	Vapor Pack
MVE 230/205	10544837	11900477	
XLC 440/450	10544845		
MVE 500/511 Gen1	10544853	11062055	
MVE 511/510 Gen2	10544853	11905227	
MVE 600/611/616	11509726	11937317	11913235
XLC 810	10544861 (5")		
XLC 810	10680433 (11")		
XLC 1110	10544870		
XLC 1200	10544888 (4.5")		
MVE 1200/1211	10978838 (15")	10742518	
MVE 1411/1426	10544888	11934044	11913243
XLC 1370	10544896		
MVE 1840/1841/1839	10723632	11541241	

# Lab 10 & Lab 20 Discharge Devices

There is a new part number for replacement rubber stoppers for Lab 20 discharge devices. The kit includes a new bolt assembly and two rubber stoppers. The part number for this kit is 13490811.

From this point forward Lab 10 will use the same two-piece stopper design as the Lab 20. When replacing the rubber stoppers and bolt on the Lab 10 discharge device, please order part number 9086779 for the bolt assembly and part numbers 4710067 and 13465974 for the two rubber stoppers.

Please see updated Lab 10 and Lab 20 discharge device part numbers below:

Description .....	P/N
Manual Discharge Device – Lab 10 – 2” neck .....	13467208
Manual Discharge Device – Lab 10 – 2.2” neck .....	10668101
Manual Discharge Device – Lab 20 – 2” neck .....	13464867
Manual Discharge Device – Lab 20 – 2.2” neck .....	13484139

## Freezer 3-way (Purge) Valve

As reported in January 2007’s Tech Tips, a minor change has occurred with respect to the purge valve. The old valve connected to the controller via push-on wire leads, whereas the new valve has wire leads with a connector which plugs into the TEC3000 wire harness. If the wire assembly is being replaced, but the valve is not, then you may need to purchase a new spade connector, P/N 10554234. The new valve is part number 13284954. The old valve is still available for purchase under P/N 10712933.

## Refurbished CryoCart for Sale

Chart has a refurbished prototype CryoCart available for sale. Price on this is \$6950.00. As is normal with refurb, no discounts apply. Contact customer service for additional information and reference part number 11932663R.



## New 800-150 series model

There is now a MDD compliant version of the MVE 819P-150. This is a 15-2 rack freezer with BB and GB. Part number for this unit is 13505518. MVE 819s are 4” taller than the old 810 HE+ (818P-150).

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## Discounted Aluminum Dewars

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Sale Prices. No Other Discounts Applicable.

### Refurbished – 2 year vacuum warranty

QTY	PN#	Description	Price
1	991849R	RPL SC 11/7	\$ 323.00

### Slow Movers – 5 year vacuum warranty

QTY	PN#	Description	Price
1	9920829	TECH 35	\$1783.00
1	12923591	EZ Shipper	\$1165.00

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