



MVE Tech Tips



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Cryogenic Delivery and Storage Systems

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Paint Touchup for Cabinet Models

Because MVE cabinets and lids are powder coated, it has been determined that the vendor cannot provide a wet coat touchup paint for cabinet panels. An alternative solution would be to take the key-pad bezel to a paint store and have them match the color.

CryoCart

The CryoCart is now available without the temperature monitor and plumbing.

PN	Description	2008 List Price
12966911	CryoCart with temperature monitor and plumbing	\$13,900
13777361	CryoCart without temperature monitor and plumbing	\$12,700

Advanced Technical Training Seminar

Although still in the planning stage, the next technical training session will focus on the advanced level communications of the TEC 3000.

This will involve:

- New TEC 3000 features
- Setting up a printer
- Connecting multiple units to a printer
- Communicating using HyperTerminal
- Connecting multiple units using HyperTerminal
- Downloading data using Chart Connect
- Interpreting data from downloads
- Updating firmware
- Advanced fill settings
 - Setting up simultaneous OFAF
 - Setting up sequential OFAF
 - Setting up timed filling

Temperature Sensor Probes

Although the TEC 2000 uses a different temperature probe than the TEC 3000, the function is the same. The TEC 2000 has a temperature probe with a smaller diameter because it has two wires. The TEC 3000 has three wires and consequently a larger diameter; however, only two of those wires are used. Hence, they are both 1000 ohm platinum RTDs with an accuracy of 0.12%. Be mindful, the TEC 3000 controller itself only displays the temperature with an accuracy of $\pm 2^{\circ}\text{C}$.

Tank Naming / Renaming Convention

The following table charts the name changes of MVE tanks.

Old Model	Replace By	Replace By	Replace By	Replace By	Replace By
A-1000	NONE				
A-1500	WORKHORSE				
A-2542	TECH 42/5				
A-2600	XLC-1420	XLC-1520			
A-300	NONE				
A-3500	VPS-3500	XLC-1370	MVE-1370	MVE-1320	
A-4500	XLC-1110	XLC-1200	MVE-1200	MVE-1400	MVE-1426CF
A-4600	XLC-1211	MVE-1211	MVE-1223		
A-7000	NONE				
A-8000	XLC-800				
A-9000	XLC-810	MVE-810	MVE-808		
LZ-100	XLC-18.3	XLC-1830	MVE-1830	MVE-1842P-150	
LZ-200	XLC-1830 2T	MVE-1830-2T	MVE-1877P-2T-150		
VPS-3900	XLC-1840	XLC-1841	MVE-1841	MVE-1839	
VPS-2600	NONE				
VPS-80	XLC-440	XLC-500	MVE-500	MVE-600	MVE-616CF
XLC-450	XLC-510	XLC-511	MVE-511	MVE-510	
			MVE-611	MVE-616	
AL-3	SC 3/3				
AL-8	SC 8/5				
AL-11	SC 11/7				
AL-12	SC 11/7				
AL-20	SC 20/20				
AL 21/9	XC 21/6				
AL-29	ET-32	SC 33/22			
AL-30	SC 33/32				
AL-39	SX 35	SC 34/18			
AL-40	SM 43	XC 42/28			
AL 49/6	ET 44/6	XC 47/11-6			
AL 49/10	ET 44/10	XC 47/11-10			
AIRCO	AX 47	XC 47/11-6			
AIRCO	AXL 110R	XLC-440			
AIRCO	AXL 110 S	XLC-440			
AIRCO	AXL 315	XLC-1110			
AIRCO	AXL 63	NONE			

Old Model	Replace By	Replace By	Replace By
BDS-1	SC 2/1V		
ARCTIC EXP 5	SC 2/1V		
FORMA 2/1V	SC 2/1V		
ARCTIC EXP 10	SC4/3V		
FORMA 4/3V	SC 4/3V		

Old Model	Replace By	Replace By	Replace By
BDS-5	SC 4/2V		
XDS-5	SC 4/3V		
CBF-21	XLC-140	MVE-140	MVE-103
TA-21	XLC-140	MVE-140	MVE-103
TA-60	XLC-230	MVE-230	MVE-205
TA-90	XLC-450	XLC-511	MVE-510
CX 16/7	SC 16/11		
DM 150	NONE		
DMA 300	NONE		
DN (double neck)	AL-30 DN	NONE	
EM 32	SC 33/32		
ET 15/6	NONE		
ET-17	SC 20/15	NONE	
ET-22	XC 22/5		
ET-39	XC 32/8		
ET 44/10	XC 47/11-10		
ET 44/6	XC 47/11-6		
LW-60	TECH-50	CRYO-CYL-50	
TECH 35	CRYO CYL-35		
SM 33	SC 33/26		
SM 43	XC 43/28		
SX-18	SC 20		
SX 22	AL-20	SC 20/20	MIL SC20
SX 34	XC 33/22		
SX 35	XC 34/18		
TECH-5	LAB 5		
THERMO 5	LAB 5		
TECH 10	LAB 10		
THERMO 10	LAB 10		
TECH 20	LAB 20		
THERMO 20	LAB 20		
TECH 30	LAB 30		
THERMO 30	LAB 30		
TECH 50	LAB 50		
THERMO 50	LAB 50		
FORMA	BARNSTEAD	MVE	
CMD-20		Cryoshipper XC	
CMR-2800	LOCATOR 8	Cryosystem 1800	OBS
CMC-3200	LOCATOR JR+	Cryosystem 2000	
	LOCATOR JR		
CMR-3500	LOCATOR 4	Cryosystem 3600	
	LOCATOR 4+	Cryosystem 4000	
	LOCATOR 6+	Cryosystem 6000	
	BIO CANE 11	SC 11/7	
FORMA 20	BIO CANE 20	SC 20/20	
FORMA 33	BIO CANE 34	SC 34/18	

Old Model	Replace By	Replace By	Replace By
FORMA 47	BIO CANE 47	SC 47/11-6	
	BIO CANE 70		
	DUAL 10	DOBLE 11	
	DUAL 19	DOBLE 20	
	DUAL 28	DOBLE 28	
	DUAL 32	DOBLE 34	
	DUAL 38	DOBLE 38 XC	OBS
	DUAL 46	DOBLE 47	
	ARCTIC X IATA	IATA Cryoshipper XC	



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www.PrincetonCryo.com | Sales@PrincetonCryo.com | 800.232.2796