



MVE Tech Tips



November, 2007

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 | |

Customer/Technical Info

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