



MVE Tech Tips



March, 2007

Sensor assemblies for MVE freezers

Customer Service has been receiving numerous calls about switching out a three-tube temperature sensor assembly for the dual tube assembly. Three tube assemblies can either be purchased with a new freezer or as an accessory to freezers already in service.

The best time to make sure that you receive the correct sensor assembly is when you are placing the order for your freezer. Freezers come standard with a two-tube sensor assembly. If you would like a three-tube assembly instead, find the part number for the three-tube assembly below and have your customer service representative enter a second line item replacing the two-tube assembly with a three-tube assembly. You will only be charged the difference in price between the two sensor assemblies.

| Freezers | Tube Length | Dual P/N | Three P/N |
|---------------------|-------------|-----------|-----------|
| 1842P | .26" | .11747450 | .11793341 |
| 800, 1500 series | .39" | .11747468 | .11793350 |
| Rest of 1800 series | .44" | .11747476 | .11793368 |

If you fail to order the correct one at that time, it can still be ordered at a later date. However, then you will be required to obtain a return authorization number and will not get credit for the dual sensor until it is returned.

Design Changes to LAB 20

Effective immediately, the inner neck diameter of the Lab 20 units has changed from 2" to 2.18". This change will also affect accessories such as the cork and cover, discharge device, and pouring spout. As previously stated, the overall height, overall diameter and NER are not affected. Please note that when ordering accessories or spare parts for Lab 20 dewars, it is imperative that you supply us with the serial number so that we can ensure you get the proper parts. Please see the old and new part numbers and accessories below:

| Name | Full Unit | Cork and Cover | Discharge Device | Pouring Spout |
|--------------------|-----------|----------------|------------------|---------------|
| Old 2" ID Lab20 | 10756338 | 10580475 | 13464867 | 9711902 |
| Old 2.18" ID Lab20 | 13492631 | 10580299 | 13484139 | 9720729 |

Price Increase

To keep up with the rising cost of aluminum, Chart has been forced to implement a price increase that began April 1st. Please contact Customer Service for more information.

Questions & Answers

Q: I have recently installed a new 1520HE freezer with a TEC3000 controller. What steps do I have to take to ensure that the battery backup is properly identified by the TEC3000?

A: The battery backup is a plug and play option. It detects the presence of the BB it should show “enabled” in the display. You do not have to enter anything to enable or disable the BB.

Q: Is the software for the ships logger compliant with 21CFR?

A: The ships log is 21CFR section 11 compliant.

Monthly Specials

Prices are as listed, no other discounts apply.

REFURBISHED UNITS – 2 year vacuum warranty

| # Available | P/N | Description | Price |
|-------------|-----------|---|----------|
| 9 | 991849R | RPL SC 11/7 | \$323.00 |
| 3 | 991853R | RPL XC 22/5 | \$463.50 |
| 1 | 10743027R | RPL XC 34/18 | \$512.50 |
| 1 | 10817330R | RPL SC 4/3V | \$428.50 |
| 1 | 11736179R | RPL SPECTRUM 8 | \$335.00 |
| 22 | 991847R | RPL SC 4/2V | \$441.50 |
| 1 | 10719924R | RPL XC 47/11-6 | \$692.00 |
| 7 | 11798273R | RPL Cryo Shipper Ex Service, Dewar Only | Call |

NEW UNITS – 5 year vacuum warranty

| # Available | P/N | Description | Price |
|-------------|----------|-------------|-----------|
| 1 | 9920829 | TECH 35 | \$1783.00 |
| 1 | 12923591 | EZ Shipper | \$1165.00 |

New Freezer Lids

Starting in May 2007, 800 and 1500 series freezers will begin shipping with composite Xenoy lids. Because their color is molded in, these lids offer superior durability as compared to the current painted aluminum lids. Pictures of the new lids will appear in forthcoming *Tech Tips*.

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

Standard Capacity (SC) Series

| Model | Description | Part Number |
|-------------------------------|---|--------------------|
| <u>SC 20 / 20</u> | With (6) 11 Inch Canisters | 10725451 |
| | Spare Canister | 9710101 |
| | Spare Neck Cork | 10726817 |
| | Center Canister for SC20/20, 33/26, 36/32, 11/7 | 10623201 |
| | Roller Base | 10937391 |
| <u>SC 36 / 32</u> | With (6) 11 Inch Canisters | 10829621 |
| | Spare Canister | 9710101 |
| | Spare Neck Cork | 10726817 |
| | Roller Base | 10937403 |
| <u>SC 33 / 26</u> | With (6) 11 Inch Canisters | 10743035 |
| | Spare Canister | 9710101 |
| | Spare Neck Cork | 10726817 |
| | Roller Base | 10937403 |
| <u>MILLENIUM SC 20</u> | With (6) 11 Inch Canisters | 11082638 |
| | Spare Canister | 9710101 |
| | Spare Neck Cork | 11889028 |
| | Roller Base | 10937391 |
| <u>SC 11 / 7</u> | With (6) 11 Inch Canisters | 9918499 |
| | Spare Canister | 11868526 |
| | Spare Neck Cork (old style 12/31/03) | 10507059 |
| | Spare Neck Cork (new Style as of 1/1/04) | 11853674 |
| | Protective Carton | 11925105 |
| <u>SC 16 / 11</u> | With (9) 5 Inch Canisters | 9918519 |
| | Spare Canister | 9721489 |
| | Spare Neck Cork | 10507438 |
| <u>SC 8 / 5</u> | With (6) 5 Inch Canisters | 9917989 |
| | Spare Canister | 9710611 |
| | Spare Neck Cork | 10507059 |
| <u>SC 3 / 3</u> | With (6) 5 Inch Canisters | 9918009 |
| | Spare Canister | 9710601 |
| | Spare Neck Cork | 10507059 |
| <u>BLACK CAP PLUGS</u> | BLACK CAPS-VACUUM PLUG (FIT ALL ALUM UNITS) | 3911217 |

Note: All units are shipped with canisters

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

Extra Capacity (XC) Series

| Model | Description | Part Number |
|----------------------------------|---|--------------------|
| <u>XC 47/11-6</u> | With (6) 11 Inch Canisters | 10719924 |
| | ** With (6) 25 cell 2" Sq Canister | 13346449 |
| | ** With (6) 25 cell 3" Sq Canister | 10811472 |
| | Spare Square 2" Rack | 11554720 |
| | Spare Square 3" Rack | 9719679 |
| | Spare Canister | 9719299 |
| | Spare Neck Cork | 10721397 |
| | Center Canister for SC20/20, 33/26, 36/32 | 10623181 |
| | Roller Base | 10937411 |
| | Protective Carton | 13027552 |
| <u>XC 47 / 11-10</u> | With (10) 11 Inch Canisters | 10725435 |
| | Spare Canister | 9719289 |
| | Spare Neck Cork | 10726711 |
| | Roller Base | 10937411 |
| | Protective Carton | 13027552 |
| <u>XC 43 / 28</u> | With (6) 11 Inch Canisters | 9918039 |
| | Spare Canister | 9719319 |
| | Spare Neck Cork | 10507067 |
| | Roller Base | 10937411 |
| <u>XC 34 / 18</u> | With (6) 11 Inch Canisters | 10743027 |
| | Spare Canister | 9719309 |
| | Spare Neck Cork | 10507489 |
| | Center Canister | 10623199 |
| | Roller Base | 10937403 |
| <u>XC 33 / 22</u> | With (6) 11 Inch Canisters | 9918069 |
| | Spare Canister | 9719319 |
| | Spare Neck Cork | 10507067 |
| | Roller Base | 10937403 |
| <u>XC 32 / 8</u> | With (9) 11 Inch Canisters | 9918449 |
| | Spare Canister | 9719339 |
| | Spare Neck Cork | 10507454 |
| | Roller Base | 10937403 |
| <u>XC 32/8 W/ SUPPORT</u> | With (9) 11" Canisters | 11784912 |
| | Roller Base | 10937403 |
| <u>MILLENNIUM XC 20</u> | With (6) 11" Canisters | 11082646 |
| | Spare Canister | 11006344 |
| | Spare Neck Cork | 11889028 |
| | Roller Base | 10937391 |

MVE-Chart Inc.
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Biological Equipment Parts List

**Extra Capacity (XC) Series
(Continued)**

| Model | Description | Part Number |
|---------------------|-------------------------------|--------------------|
| <u>MILLENIUM II</u> | With (6) 11 Inch Canisters | 11901162 |
| | Spare Neck Cork | 11889028 |
| | Roller Base | 10937391 |
| <u>XC 22 / 5</u> | With (6) 11 Inch Canisters | 9918539 |
| | Spare Canister | 9719349 |
| | Spare Neck Cork | 10506996 |
| | Protective Shipping Container | 9722149 |
| <u>XC 21 / 6</u> | With (9) 5 Inch Canisters | 9920579 |
| | Spare Canister | 9721469 |
| | Spare Neck Cork | 10507024 |
| <u>XC 10/4-9</u> | With (9) 5 Inch Canisters | 9919369 |
| | Spare Canister | 9720369 |
| | Spare Neck Cork | 10507024 |

** 25 Cell Mini Boxes not included, see pg 10 for pn#
Note: All units are shipped with canisters

Euro Technician Series

| Model | Description | Part Number |
|------------------|---|----------------------|
| <u>A-200 AL</u> | With (6) 127MM/5" canisters | 11686001 |
| <u>XC 10/4-6</u> | With (6) 127 mm / 5" Canisters | 9920539 |
| <u>ET 11</u> | With (6) 127 MM / 5" Canisters | 10647326 |
| <u>ET 24-10</u> | With (10) 127 MM / 5" Canisters Canister | 11841286 11858230 |
| <u>ET 23 JLM</u> | With (6) 279 MM/ 11" Canisters Canister | 11837869 9719319 |
| <u>WORKHORSE</u> | With (6) 279 MM/ 11" Canisters Canister | 11814641 9722049 |

MVE-Chart Inc.
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Biological Equipment Parts List

Doble Series 2001

| Model | Description | Part Number |
|------------------------------------|-------------------------------|--------------------|
| <u>DOBLE 11 SERIES 2001</u> | With (6) 11 Inch Canisters | 11507886 |
| | Spare Neckcork (old style) | 10507059 |
| | Spare Neckcork (new style) | 11853674 |
| | Spare Canister | 9710091 |
| | Protective Shipping Container | 11925105 |
| <u>DOBLE 20 SERIES 2001</u> | With (6) 11 Inch Canisters | 11492151 |
| | Spare Neckcork | 11889028 |
| | Spare Canister | 11006344 |
| | Protective Shipping Container | 11912460 |
| <u>DOBLE 28 SERIES 2001</u> | With (6) 11 Inch Canisters | 11527730 |
| | Spare Neckcork | 11778299 |
| | Spare Canister | 9719349 |
| | Protective Shipping Container | 11930861 |
| <u>DOBLE 34 SERIES 2001</u> | With (6) 11 Inch Canisters | 11497948 |
| | Spare Neckcork | 10507489 |
| | Spare Canister | 9719309 |
| | Protective Shipping Container | n/a |
| <u>DOBLE 47 SERIES 2001</u> | With (6) 11 Inch Canisters | 11498684 |
| | Spare Neckcork | 10721397 |
| | Spare Canister | 9719299 |
| | Protective Shipping Container | 13027552 |
| <u>DOBLE 47-10</u> | With (10) 11" Canisters | 11554308 |
| | Spare Neckcork | 10726711 |
| | Spare Canister | 9719289 |
| | Protective Shipping Container | 13027552 |

Note: All units are shipped with canisters

WARRANTY ON SERIES 2001 UNITS - THREE (3) YEARS

MVE-Chart Inc.
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Biological Equipment Parts List

Vapor Shipper Series

| Model | Description | Part Number |
|---|---|--------------------|
| STRAW DRY SHIPPER ONE (1) YEAR WARRANTY ON STRAW DRY SHIPPER | Dry Shipper- | 11517777 |
| <u>SC 2 / 1 V **</u> | With (1) 5 Inch Canister | 9922339 |
| | Individual Canister | 9722219 |
| | Spare Neck Cork | 10507219 |
| | Protective Shipping Container | 9719449 |
| <u>MINIMOOVER **</u> | With (1) 11 Inch Canister | 10667790 |
| | Individual Canister | 10667925 |
| | Spare Neck Cork | 10507219 |
| | Protective Shipping Container | 9719449 |
| <u>SC 4 / 2 V **</u> | With (1) 11 Inch Canister | 9918479 |
| | Individual Canister | 9710171 |
| | Spare Neck Cork | 10507032 |
| | Protective Shipping Container | 9719449 |
| <u>SC 4/3V **</u> | With (1) 11 Inch Canister | 10817330 |
| | Individual Canister | 9719079 |
| | Spare Neck Cork | 10507083 |
| | Protective Shipping Container | 9719449 |
| <u>SC 20/12V ***</u> | With (6) 11 inch Canisters | 11005317 |
| | Spare Canister | 9710101 |
| | Spare Cork | 10726817 |
| <u>XC 20/3V **</u> | With (4) + 1 center Canisters | 11016649 |
| | Spare Canister | 11022731 |
| | Spare Cork | 11016745 |
| | Center Canister | 11016702 |
| | Protective Shipping Container | 10537506 |
| <u>CRYOMOOVER **</u> | With (7) 11 Inch Canisters | 10647692 |
| | Individual Side Canisters | 10654497 |
| | Individual Center Canister | 10654471 |
| | Spare Neck Cork | 10654500 |
| | Protective Shipping Container | 10537506 |
| <u>CRYOSHIPPER</u> | (With Choice of Blood Bag or Vial Rack, and includes Prot. Shipping Carton Pt# 10537506) | 10508967 |
| | Extra 5-2 Rack | 10557646 |
| | Extra Blood Bag Rack (standard) | 10524991 |
| | Spare Neck Cork | 10509556 |
| <u>CRYOSHIPPER X-TRA CAPACITY</u> | (includes Prot. Shipping Carton) | 11015195 |
| | Spare Cork | 10509556 |

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

**Vapor Shipper Series
(Continued)**

| Model | Description | Part Number |
|--|--|--------------------|
| CRYOSHIPPER MINI <u>*will need to order CryoBlocks seperately</u> | W/O CRYOBLOCKS BUT INCLUDES Prot. Shipping Carton 11358817* | 11037386 |
| | 4" LARGE INSERT CRYO BLOCK * | 11046936 |
| | 3" MEDIUM INSERT CRYO BLOCK * | 11046944 |
| | 2" SMALL INSERT CRYO BLOCK * | 11046952 |
| CRYOSHIPPER MINI W/2" SLOT | W/PROT SHIPPING CARTON & VAPOR INSERT WELDED IN | 11037378 |
| CRYOSHIPPER MINI W/ 4" SLOT | W/PROT CARTON & VAPOR INSERT WELDED IN | 10979435 |
| *** NO PROTECTIVE SHIPPING CARTON AVAILABLE FOR THIS UNIT. ** VAPOR SHIPPERS DO NOT COME WITH PROTECTIVE SHIPPING CARTON. | | |
| VAPOR CANISTERS (CAB-O-SIL INSERTS) | 1.5" FOR: SC 20/20, SC 33/26,XC 33/22,XC 43/28, SC3/3, SC 8/5, SC 11/7, XC 10/4-9, Spectrum 20, SC 20, XC 20 | 10736409 |
| | 2.25" FOR: XC 32/8, SPECTRUM 20+ | 10736417 |
| | 2.75" FOR: SPECTRUM 34, XC 34/18, XC 10/4-6, XC 47/11-10, XC 21/6-9 | 10736425 |
| | 3 3/8" FOR: SPECTRUM 34+, XC 22/5 | 10736433 |
| | 4.0" FOR: XC 47/11-6 | 10736441 |
| | 3 3/16" FOR: XC 20/3V | 11027719 |
| PROTECTIVE SHIPPING CARTONS | For: SC 4/2V, SC 4/3V,SC 2/1V, Mini Moover | 9719449 |
| | For: XC 22/5, | 9722149 |
| | For: SC 11/7, DOBLE 11 | 11925105 |
| | For: Cryomoover, CryoShipper, XC 20/3V, | 10537506 |
| | Spectrum 16 and 20 | 11912460 |
| | For: Cryo Sys 2000 w Flat Bottom XLG Thin Foam 26"OD | 13027544 |
| | For: XC 47/11 & DOBLE 47 XLG Thiek Foam 26"OD | 13027552 |
| | For: DOBLE 28 | 11930861 |
| | For: Cryo Shipper Extra Capacity | 10741726 |

*** NO PROTECTIVE SHIPPING CARTON AVAILABLE FOR THIS UNIT.
** VAPOR SHIPPERS DO NOT COME WITH PROTECTIVE SHIPPING CARTON.

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

IATA/UN Vapor Shipping Systems

| Model | Description | Part Number |
|--|---|--------------------|
| <u>CRYO SHIPPER EXTRA CAPACITY-VSS*</u> | <u>Includes:</u> | 10777411 |
| | Cryo-Shipper Extra Capacity-VSS | 9921809 |
| | Protective Shipping Carton | 10741726 |
| | Secondary Container | 10862106 |
| | Spare Cork/Cover | 10509556 |
| <u>REQUIRED ACCESSORIES</u> | IATA Approved Shipping Vials- | |
| | 1 ml. (100 vials) | 10778810 |
| | 2 ml. (100 vials) | 10778828 |
| | 3 ml. (100 vials) | 10778836 |
| | 4 ml. (100 vials) | 10777438 |
| | IATA Approved Absorbent Cloth (100 sheets per bag) | 10777446 |

*THE ABOVE SHIPPERS ARE CERTIFIED TO MEET THE PERFORMANCE REQUIREMENTS OUTLINED IN THE DEPARTMENT OF TRANSPORTATIONS TITLE 49, CODE OF FEDERAL REGULATIONS (CRF), PARTS 173 AND 179 Subpart B: Preparation of Hazardous Materials for Transportation; 173.24a(5)
Subpart E: Non-Bulk Packaging for Hazardous Materials Other than Class 1 and Class 7; Section 173.196 (b & f)
Subpart M: Testing of Non-Bulk Packaging and Packages: Test requirements for Packaging for infectious substances; Section 178.609
These products are also certified for shipment under the following International Regulatory Codes.
However, it is the responsibility of the end user to determine package authorization for use under these regulations
International Civil Aviation Organization (ICA); Technical Instructions For the Safe Transport of Dangerous Goods by Air.
International Air Transport Association (IATA); Dangerous Goods Regulations.
The use of other packaging methods or components other than those included in this price list may render this certification invalid
A copy of MVE, Inc.'s certification can be supplied upon request.

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

Lab Dewar Series

| Model | Description | Part Number |
|------------------------------------|--|--------------------|
| <u>LAB 4</u> | Lab 4 unit | 9922219 |
| | Spare Cork/Cover | 10588362 |
| | (No other accessories available for this LAB model) | |
| <u>LAB 5</u> | LAB 5 unit | 9918079 |
| | Spare Cork/Cover | 10580299 |
| | Pouring Spout | 9720729 |
| | Spare Rubber Plug | 4710807 |
| | Rigid Dipper | 9711569 |
| | Swivel Dipper | 9711679 |
| | Rollerbase | N/A |
| <u>LAB 10</u> | Lab 10 unit | 10740281 |
| | Spare Cork/Cover (2.2"Diameter) New | 10580299 |
| | Spare Cork/Cover (2" Diameter) Old style | 10507041 |
| | Pouring Spout | 9720729 |
| | Manual Discharge Device 2 1/8" neck - *after 12/78) | 10668101 |
| | Manual Discharge Device Extended Rubber | 13467208 |
| | Spare Rubber Plug | 4710807 |
| | Rigid Dipper | 9711589 |
| | Swivel Dipper | 9711679 |
| | Rollerbase | N/A |
| | Spare Rubber Plug for Pour Spout | 4710067 |
| <u>LAB 20</u> | Lab 20 unit (Replaces part number 10756338) | 13492631 |
| | Spare Cork/Cover | 10580475 |
| | Pouring Spout | 9711909 |
| | Manual Discharge Device | 10667802 |
| | Mnl Disc Device (old style) replaces 10667802 Ext. | 13484139 |
| | Manual Discharge Device (new style) | 13464867 |
| | Spare Rubber Plug for Pour Spout | 4710067 |
| | Rigid Dipper | 9711619 |
| | Swivel Dipper | 9711679 |
| | Rollerbase | 10937391 |
| <u>DISCHARGE DEVICE KIT</u> | Rubber Plug Assembly Kit (Disch Dev 2" neck ID) | 13490811 |

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

| Lab Dewar Series (Continued) | | Part Number |
|---|---|------------------------|
| Model | Description | |
| <u>LAB 30</u> | Lab 30 unit | 9918099 |
| | Spare Cork/Cover | 10580459 |
| | Pouring Spout | 9711929 |
| | Manual Discharge Device | 10668004 |
| | Spare Rubber Plug | 4710147 |
| | Rigid Dipper | 9711619 |
| | Swivel Dipper | 9711679 |
| | Rollerbase | 10937403 |
| <u>LAB 47*</u> | LAB 47 UNIT | 11913497 |
| | Spare cork/cover | 10721397 |
| <u>LAB 50 *</u> | Lab 50 unit | 9918109 |
| | Spare Cork/Cover | 10580459 |
| | Pouring Spout | 9711929 |
| | Manual Discharge Device | 10668021 |
| | Spare Rubber Plug | 4710147 |
| | Rigid Dipper | 9711669 |
| | Swivel Dipper | 9711679 |
| | Rollerbase | 10937403 |
| <u>PHASE SEPERATOR</u> | Phase Seperator w/nozzle for Discharge Device | 11734421 |
| <u>SS TRANSFER UNIT</u> | SS 5 Ltr Transfer Unit | 11014070 |
| | SS 2.5 Ltr Transfer Unit | 11048940 |
| | SS 1.5 Ltr Transfer Unit | 11053301 |
| | Basket | 11066283 |

*WARRANTY for South America on LAB 50 units (2 Years) and LAB 47 units (3 Years)

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

| Cryosystem Series | | |
|--|------------------------------------|--------------------|
| Model | Description | Part Number |
| <u>CRYOSYSTEM 750</u> | W/ LARGE SQ CANISTERS | 11886450 |
| | Canister SQ 5-2 SS Rack | 11554720 |
| | Cork & Cover | 10721397 |
| | Roller Base | 10937411 |
| <u>CRYOSYSTEM 2000</u> | W/ 4 INVENTORY RACKS for 20 BOXES* | 10650200 |
| | Spare Rack | 10650226 |
| | Cork & Cover | 13046462 |
| | Roller Base | 10937420 |
| | Canister Rack - 3 Tiers (3" Boxes) | 11364627 |
| <u>CRYOSYSTEM 4000</u> | W/ 4 INVENTORY RACKS for 40 BOXES* | 10650197 |
| | Spare Rack | 10650218 |
| | Cork & Cover | 13046462 |
| | Roller Base | 10937420 |
| | Canister Sq Crvo 4000 7 Tier Rack | 10839011 |
| <u>CRYOSYSTEM 6000</u> | W/ 6 INVENTORY RACKS for 60 BOXES* | 10718067 |
| | Spare Rack | 10791088 |
| | Cork & Cover | 13046471 |
| | Roller Base | 10937438 |
| | Canister Sq Crvo 6000 7 Tier Rack | 11364619 |
| <u>CRYOSYSTEM 6000 FULL AUTO</u> | W/ 6 INVENTORY RACKS FOR 60 BOXES* | 11048931 |
| <u>*Square Boxes</u> | Plastic 2" (100 cell) | 9719649 |
| <u>*Storage boxes not included.</u> | | |

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

Cryo Cyl's Series

| Model | Description | Part Number |
|--|---------------------------------|--------------------|
| <u>CRYO CYL 35</u> | 35 LITER 22 PSI LIQUID DELIVERY | 10980671 |
| <u>LN2 SERVICE KIT</u> | CRYO CYL 35 LABEL KIT | 11200323 |
| <u>CRYO CYL 50</u> | 50 LITER 22 PSI LIQUID DELIVERY | 10980663 |
| <u>LN2 SERVICE KIT</u> | CRYO CYL 50 LABEL KIT | 11200315 |
| <u>TRANSFER HOSE</u> | 4 FT. TRANSFER HOSE | 9713159 |
| <u>TRANSFER HOSE</u> | 6 FT. TRANSFER HOSE | 9713109 |
| PHASE SEPARATORS: Include fitting required for LN2 service. | | |
| <u>XLC SERIES PHASE SEPARATOR</u> | 1 5/8" DIA. X 4" LONG | 10615869 |
| <u>LG. ALUM. DEWAR PHASE SEP.</u> | 1 5/16" DIA. X 3" LONG | 10615877 |
| <u>SM. ALUM. DEWAR PHASE SEP.</u> | 11/16" DIA. X 1 1/2" LONG | 10615885 |
| <u>T VALVE ASSEMBLY</u> | | 10784443 |

Accessories

| Model | Description | Part Number |
|--|--|--|
| <u>ROLLERBASE</u> | For: 20 Liter Units, Tech 35,Tech 50,SC 22/5 For: Lab 30,50, SC 33/26,XC 34/18, MVE 230 For: XC 47/11, MVE 450 For: XLC 360HE, MVE 510, Cryo 2000, 4000 For: Cryo 6000 | 10937391 10937403 10937411 10937420 10937438 |
| <u>SINGLE UNIT CANISTER (SUC)</u> | SUC 1 Canister (2 1/2" by 2 1/2" by 11") | 9710491 |
| <u>CRYO SLEEVES</u> | 100 per box | 9710899 |
| <u>CANES</u> | 1.0 ML 6 Ampules Per Cane (C-1) 1.2 ML 6 Ampules Per Cane (C-2) 2.0 ML 5 Ampules Per Cane (C-7) | 9717009 9717029 9717089 |
| <u>COOL REACH</u> | Retrieves Ampules (Replaced Cryo Claw 11068705) | 13051579 |

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

| Accessories (Continued) | | Part Number |
|---|--|------------------------|
| Model | Description | |
| <u>DATA LOGGER</u> | Data Logger only | 11554324 |
| | Data Logger for Cryo Shipper/ Cryo Shipper Extra Cap & Mini Cryo Shippers (complete with cork/cover) | 11371181 |
| | Data Logger for Cryo Moover | 11554383 |
| | Data Logger for SC 4/2V | 11554341 |
| | Data Logger for SC 4/3V | 11554367 |
| | Data Logger for SC 20/3V | 11554375 |
| <u>EPOXY KIT</u> | For use on plastic lids on Alum. Containers | 0010143 |
| <u>LIQUID MEASURING STICK</u> | For AI Units (24 inches) | 5613469 |
| | For MVE Units (1 METER) | 10883361 |
| <u>LN2 CONTROLLERS</u> | Lo Level Alarm | 11905817 |
| | Therm-O- lert Battery LN2 Level Alarm (European 230 V) | 10769489 |
| <u>TEMPERATURE AMPULES</u> | Temperature Monitor Ampules Assembly(each) | 11077257 |
| | Temperature Monitor Ampules -(5 sets/case) | 10790510 |
| | Red Ampules only | 10790544 |
| | Blue Ampules only | 10790536 |
| <u>AUTO LN2 TANK SWITCHER</u> | Auto LN2 Tank Switcher - MVE Units | 11207040 |
| <u>XLC CONVERTER KIT</u> | Tec 2000 RS485-RS232 Conversion Kit | 10740221 |
| <u>ONE FILL ALL FILL</u> | Cable AssyOne Fill All Fill Master Tec 2000 OFAF Network | 11358251 |
| <u>PRINTER KIT</u> | Tec 2000, Printer,Adapter and RS Kit | 11544943 |
| <u>DAISY CHAIN KIT</u> | MVE DAISY CHAIN KIT RJ45 | 10856321 |
| <u>EPROM CHIP</u> | 1.7 EPROM CHIP - TECH 2000 | 11178453 |
| <u>KIT-TOOL BOX MVE FREEZERS</u> | Tool Box Kit for Repair/Set Up of MVE Units | 11883259 |

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

**Accessories
(Continued)**

| Model | Description | Part Number |
|---|---|------------------------|
| <u>CRYO GLOVES</u> | Midarm Length-Medium | 9717119 |
| | Midarm Length-Large | 9717129 |
| | Midarm Length-Extra Large | 9717139 |
| | Elbow Length-Medium | 9717149 |
| | Elbow Length-Large | 9717159 |
| | Elbow Length-Extra Large | 9717169 |
| | Apron | 10464394 |
| <u>SQUARE BOXES</u> | Plastic 2" (100 Cell) | 9719649 |
| | Plastic 2" (25 Cell) | 9719629 |
| | Plastic 3" (100 Cell) | 9719659 |
| | Plastic 3" (25 Cell) | 9719639 |
| | Cardboard 2" (81 Cell) | 9714099 |
| | Cardboard 3" (81 Cell) | 9714109 |
| <u>DISCHARGE DEVICE KIT</u> | Rubber Plug Assembly Kit (Disch Dev 2" neck ID) | 13490811 |
| <u>TEC 3000 CONTROLLERS AND KITS</u> | TEC 3000 Symbolic Display | 13319467 |
| | TEC 3000 Text Display | 13319459 |
| | TEC 3000 Upgrade kits (MDC to TEC 3000) | 13319512 |
| | TEC 3000 Upgrade kits (LSCI to TEC 3000) | 13319491 |
| | TEC 3000 Upgrade kits (MDC Cabinet to TEC 3000) | 13319504 |
| | TEC 3000 Interface Kit (Connects to USB) | 13376947 |
| <u>MVE CRYO CART</u> | MVE CRYO CART | 12966911 |

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MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

| MVE Series | | Part Number |
|--|--|----------------------|
| Model | Description | |
| MVE 103 (MVE 140) | BASIC | 9918669 |
| MVE 204 (MVE 230) | BASIC VAPOR PLATFORM | 9918689 10544837 |
| MVE 205 (MVE 230 Gen 2) | BASIC | 11004007 |
| MVE 205F | FULL AUTO CONTROL | 11004349 |
| MVE 205F-GB-BB | FULL AUTO, BB, GB | 11004373 |
| MVE 205F-GB-BB-MDD | FULL AUTO, BB, GB, MDD VAPOR PLATFORM | 11889466 10544837 |
| MVE 510 (MVE 511 w/o Cabinet) | BASIC | 11905016 |
| MVE 510F | FULL AUTO CONTROL | 11905067 |
| MVE 510F-GB-BB | FULL AUTO, BB, GB | 11905075 |
| MVE 510F-GB-BB-MDD | FULL AUTO, BB, GB, MDD VAPOR PLATFORM | 11905104 10544853 |
| MVE 1223 (MVE 1211 w/o cabinet) | BASIC | 13419097 |
| MVE 1223F | FULL AUTO CONTROL | 13419134 |
| MVE 1223F-GB-BB | FULL AUTO, BB, GB | 13419169 |
| MVE 1223F-GB-BB-MDD | FULL AUTO, BB, GB, MDD VAPOR PLATFORM | 13419177 10544888 |
| MVE 1839 (MVE 1841 Gen 2) | BASIC | 11922334 |
| MVE 1839F | FULL AUTO CONTROL | 11922431 |
| MVE 1839F-GB-BB | FULL AUTO BB, GB | 11922449 |
| MVE 1839F-GB-BB-MDD | FULL AUTO BB, GB, MDD VAPOR PLATFORM | 11922570 10544909 |

As of Jan 6, 2006 All Full Auto units come standard with Dual Voltage (115 VDC/60HZ & 230 VDC/50Hz) and meet CE standards
Capacity is based on 1.2ml and 2.0ml vials in boxes.

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

MVE Stock Series

| Model | Description | Part Number |
|---------------------------------------|------------------------|--------------------|
| MVE 808 (MVE 810) | BASIC | 9918709 |
| MVE 808F | FULL AUTO CONTROL | 10752871 |
| MVE 808F-GB-BB | FULL AUTO BB, GB | 10752901 |
| MVE 808F-GB-BB-MDD | FULL AUTO BB, GB, MDD | 11889458 |
| | VAPOR PLATFORM | 10544861 |
| MVE 1318 (MVE 1370) | BASIC | 9918739 |
| MVE 1318F | FULL AUTO CONTROL | 10751676 |
| MVE 1318F-GB-BB | FULL AUTO, BB, GB | 10751705 |
| MVE 1318F-GB-BB-MDD | FULL AUTO, BB, GB, MDD | 11889378 |
| | VAPOR PLATFORM | 10544896 |
| MVE 1842P-150 (MVE 1830 2004) | BASIC | 11916487 |
| MVE 1842P-150F | FULL AUTO CONTROL | 11916508 |
| MVE 1842P-150F-GB-BB | FULL AUTO, BB, GB | 11916516 |
| MVE 1842P-150F-GB-BB-MDD | FULL AUTO, BB, GB, MDD | 11916567 |
| MVE 816P-2T-190 | BASIC | 13476631 |
| MVE 816P-2T-190F | FULL AUTO CONTROL | 13476649 |
| MVE 816P-2T-190F-GB-BB | FULL AUTO, BB, GB | 13476657 |
| MVE 816P-2T-190F-GB-BB-MDD | FULL AUTO, BB, GB, MDD | 13476665 |
| MVE 1877P-2T-150 (MVE 1830 2T) | BASIC | 11916911 |
| MVE 1877P-2T-150F | FULL AUTO CONTROL | 11916962 |
| MVE 1877P-2T-150F-GB-BB | FULL AUTO, BB, GB | 11917009 |
| MVE 1877P-2T-150F-GB-BB-MDD | FULL AUTO, BB, GB, MDD | 11917050 |

As of Jan 6, 2006 All Full Auto units come standard with Dual Voltage (115 VDC/60HZ & 230 VDC/50Hz) and meet CE standards
Capacity is based on 1.2ml vials on canes.

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

| MVE High Efficiency | | Part Number |
|--|------------------------|--------------------|
| Model | Description | |
| Basic | | |
| MVE 815P-150 (MVE 810HE) | BASIC | 11633436 |
| MVE 815P-150F | FULL AUTO CONTROL | 11633452 |
| MVE 815P-150F-GB-BB | FULL AUTO BB,GB, | 11633487 |
| MVE 815P-150F-GB-BB-MDD | FULL AUTO BB,GB, MDD | 11889511 |
| | NEW STEP | 13082551 |
| MVE 1536P-150 (MVE 1520HE) | BASIC | 10784064 |
| MVE 1536P-150F | FULL AUTO CONTROL | 10784056 |
| MVE 1536P-150F-GB-BB | FULL AUTO, BB, GB | 10811755 |
| MVE 1536P-150F-GB-BB-MDD | FULL AUTO, BB, GB, MDD | 11889394 |
| MVE 1879P-150 (MVE 1830HE 2004) | BASIC | 11916356 |
| MVE 1879P-150F | FULL AUTO CONTROL | 11916372 |
| MVE 1879P-150F-GB-BB | FULL AUTO BB, GB | 11916381 |
| MVE 1879P-150F-GB-BB-MDD | FULL AUTO BB, GB, MDD | 11916410 |
| Rectangle | | |
| MVE 1539R-150 (MVE 1520 HE Rect) | BASIC | 11851388 |
| MVE 1539R-150F | FULL AUTO CONTROL | 11851409 |
| MVE 1539R-150F-GB-BB | FULL AUTO BB,GB | 11851433 |
| MVE 1539R-150F-GB-BB-MDD | FULL AUTO BB,GB, MDD | 11889571 |
| MVE 1542R-150 (MVE 1520 HE+ Rect) | BASIC | 12925300 |
| MVE 1542R-150F | FULL AUTO CONTROL | 12925318 |
| MVE 1542R-150F-GB-BB | FULL AUTO, GB BB | 12925895 |
| MVE 1542R-150F-GB-BB-MDD | FULL AUTO BB,GB, MDD | 12925342 |
| MVE 1881R-150 (MVE 1830 HE Rect) | BASIC | 11916250 |
| MVE 1881R-150F | FULL AUTO CONTROL | 11916276 |
| MVE 1881R-150F-GB-BB | FULL AUTO, BB GB | 11916284 |
| MVE 1881R-150F-GB-BB-MDD | FULL AUTO, BB GB, MDD | 11916313 |
| MVE 1894R-150 | BASIC | 13496199 |
| MVE 1894R-150F | FULL AUTO CONTROL | 13496201 |
| MVE 1894R-150F-GB-BB | FULL AUTO, BB GB | 13496236 |
| MVE 1894R-150F-GB-BB-MDD | FULL AUTO, BB GB, MDD | 13496228 |

Capacity is based on 1.2ml and 2.0ml vials in boxes.

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

**MVE High Efficiency
(Continued)**

| Model | Description | Part Number |
|-------------------------------------|--|------------------------|
| Extra Capacity | | |
| MVE 818P-150 (MVE 810 HE+) | BASIC | 11707765 |
| MVE 818P-150F | FULL AUTO CONTROL | 11707790 |
| MVE 818P-150F-GB-BB | FULL AUTO, GB BB | 11707829 |
| MVE 818P-150F-GB-BB-MDD | FULL AUTO, GB BB, MDD | 11889546 |
| | NEW STEP | 13082551 |
| MVE 819P-150 | BASIC | 13335811 |
| MVE 819P-150F | FULL AUTO CONTROL | 13358028 |
| MVE 819P-150F-GB-BB | FULL AUTO, GB BB | 13335846 |
| MVE 819P-150F-GB-BB-MDD | FULL AUTO, GB BB, MDD | 13505518 |
| | NEW STEP | 13082551 |
| MVE 1539P-150 (MVE 1520 HE+) | BASIC | 11894476 |
| MVE 1539P-150F | FULL AUTO CONTROL | 11894492 |
| MVE 1539P-150F-GB-BB | FULL AUTO, GB BB | 11894505 |
| MVE 1539P-150F-GB-BB-MDD | FULL AUTO, GB, BB, MDD | 11894530 |
| MVE 1892P-150 (MVE 1830 HE+) | BASIC | 11916170 |
| MVE 1892P-150F | FULL AUTO CONTROL | 11916188 |
| MVE 1892P-150F-GB-BB | FULL AUTO, BB, GB | 11916196 |
| MVE 1892P-150F-GB-BB-MDD | FULL AUTO, GB, BB, MDD | 11916225 |
| MVE 1536PD-150 | DRY SHIPPER SKID MOUNTED FOR TRANSPORT | 11515042 |

Capacity is based on 1.2ml and 2.0ml vials in boxes.

MVE-Chart Inc.
BioMedical Division
Biological Equipment Parts List

MVE Vapor Storage

| Model | Description | Part Number |
|--|------------------------|--------------------|
| MVE 815P-190 (MVE Eterne -190c) | BASIC | 11369225 |
| MVE 815P-190F | FULL AUTO CONTROL | 11369911 |
| MVE 815P-190F-GB-BB | FULL AUTO, BB,GB | 11369946 |
| MVE 815P-190F-GB-BB-MDD | FULL AUTO, BB,GB, MDD | 11889482 |
| | NEW STEP | 13082551 |
| MVE 1536P-190 (MVE 1520 Eterne -190c) | BASIC | 11359967 |
| MVE 1536P-190F | FULL AUTO CONTROL | 11360212 |
| MVE 1536P-190F-GB-BB | FULL AUTO, BB, GB | 11360247 |
| MVE 1536P-190F-GB-BB-MDD | FULL AUTO, BB, GB, MDD | 11889474 |
| MVE 1879P-190 (MVE 1830 Eterne -190c) | BASIC | 11915943 |
| MVE 1879P-190F | FULL AUTO CONTROL | 11915951 |
| MVE 1879P-190F-GB-BB | FULL AUTO BB,GB | 11915960 |
| MVE 1879P-190F-GB-BB-MDD | FULL AUTO BB,GB, MDD | 11915994 |
| MVE 1881R-190 | BASIC | 13371290 |
| MVE 1881R-190F | FULL AUTO CONTROL | 13371311 |
| MVE 1881R-190F-GB-BB | FULL AUTO, BB GB | 13371169 |
| MVE 1881R-190F-GB-BB-MDD | FULL AUTO, BB GB, MDD | 13371337 |
| MVE 1894R-190 | BASIC | 13436145 |
| MVE 1894R-190F | FULL AUTO CONTROL | 13436161 |
| MVE 1894R-190F-GB-BB | FULL AUTO, BB GB | 13436170 |
| MVE 1894R-190F-GB-BB-MDD | FULL AUTO, BB GB, MDD | 13436153 |

As of Jan 6, 2006 All Full Auto units come standard with Dual Voltage (115 VDC/60HZ & 230 VDC/50Hz) and meet CE standards
Capacity is based on 1.2ml and 2.0ml vials in boxes.

MVE-Chart Inc.
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Biological Equipment Parts List

MVE 600/1400 Series

| Model | Description | Part Number |
|------------------------------|-----------------------|--------------------|
| MVE 616CF (MVE 600) | FULL AUTO CONTROL | 11499661 |
| MVE 616CF-GB-BB | FULL AUTO, BB,GB | 11499708 |
| MVE 616CF-GB-BB-MDD | FULL AUTO, BB,GB,MDD | 11889491 |
| | VAPOR PLATFORM | 11509726 |
| MVE 616 (MVE 611) | BASIC | 11527262 |
| MVE 616F | FULL AUTO CONTROL | 11527289 |
| MVE 616F-GB-BB | FULL AUTO, BB, GB | 11527342 |
| MVE 616F-GB-BB-MDD | FULL AUTO, BB, GB,MDD | 11889503 |
| | VAPOR PLATFORM | 11509726 |
| MVE 1426CF (MVE 1400) | FULL AUTO CONTROL | 11561516 |
| MVE 1426CF-GB-BB | FULL AUTO BB, GB | 11561583 |
| MVE 1426CF-GB-BB-MDD | FULL AUTO BB, GB, MDD | 11889386 |
| | VAPOR PLATFORM | 10544888 |
| MVE 1426 (MVE 1411) | BASIC | 11655256 |
| MVE 1426F | FULL AUTO CONTROL | 11655272 |
| MVE 1426F-GB-BB | FULL AUTO, BB,GB | 11655301 |
| MVE 1426F-GB-BB-MDD | FULL AUTO, BB,GB,MDD | 11889520 |
| | VAPOR PLATFORM | 10544888 |

As of Jan 6,2006 All Full Auto units come standard with Dual Voltage (115 VDC/60HZ & 230 VDC/50Hz) and meet CE standards
Capacity is based on 1.2ml and 2.0ml vials in boxes.

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Biological Equipment Parts List

MVE Bio Series

| Model | Description | Part Number |
|------------------------------------|--------------------|--------------------|
| FNL Bio I Basic | BASIC | 11036869 |
| FNL Bio I w/Auto Fill | FULL AUTO CONTROL | 11003881 |
| | VAPOR PLATFORM | 10544837 |
| FNL Bio II Gen2 Basic | BASIC | 11905112 |
| FNL Bio II Gen2 w/Auto Fill | FULL AUTO CONTROL | 11905201 |
| | VAPOR PLATFORM | 10544853 |
| FNL Bio III Basic | BASIC | 11778539 |
| FNL Bio III w/Auto Fill | FULL AUTO CONTROL | 11778521 |
| | VAPOR PLATFORM | 11509726 |
| FNL Bio IV Gen2 Basic | BASIC | 11778555 |
| FNL Bio IV Gen2 w/Auto Fill | FULL AUTO CONTROL | 11778547 |
| | VAPOR PLATFORM | 10544888 |
| FNL Bio V Gen2 Basic | BASIC | 11922414 |
| FNL Bio V Gen2 w/Auto Fill | FULL AUTO CONTROL | 11922406 |
| | VAPOR PLATFORM | 10544909 |

All Full Auto units come standard with 115 VDC/60HZ.
Capacity is based on 1.2ml and 2.0ml vials in boxes.

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