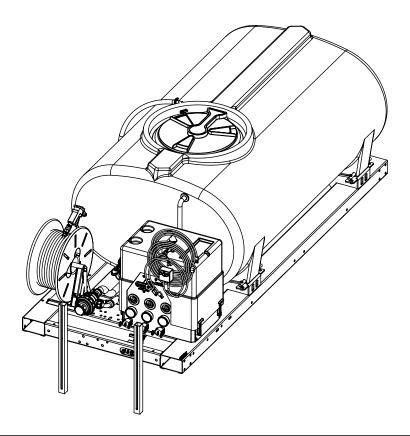
LIQUID MASTER® E-SERIES

OWNER'S MANUAL



Product Codes:

IMS250E217, IMS300E17 IMS500E17

Version 1.1

Copyright © Enduraplas. All Rights Reserved.



CONTENTS

| INTRODUCTION | 3 |
|-----------------------------|---------|
| WARNINGS A | 4 & 5 |
| GETTING STARTED | 6 - 17 |
| CALIBRATING | 18 & 19 |
| MAINTAINING | 20 & 21 |
| TROUBLESHOOTING | 22 & 23 |
| WARRANTY | 24 - 27 |
| PARTS BREAKDOWNS - E-SERIES | 28 - 43 |

INTRODUCTION

Congratulations! You now own an ICE MASTER SYSTEMS sprayer. Durable design and construction assure you a lifetime of extreme performance. No sprayer is tougher. No sprayer will last longer.

Take a look through this owner's manual to learn how the pros use their ICE MASTER SYSTEMS sprayer.



Watch Instruction Videos:

www.youtube.com

Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips:

www.lceControlTraining.com

WARNINGS A

- 1. Do not exceed vehicle manufacturers loading, towing or lifting specifications and regulations.
- 2. Ensure tank is firmly secured in an appropriate manner.
- 3. Use caution at all times, particularly when driving on rough terrain.
- 4. Comply with chemical manufacturers safety requirements and all relevant legislations.
- 5. ALWAYS keep tank tightly covered, to prevent children or animals from entering tank.
- 6. Tank is not fire resistant. NEVER expose it to open flame or heat.
- Keep sharp objects from tank. Tank could be punctured and contents could escape and cause injury to persons or property.
- 8. This tank can be used only with polyethylene compatible liquids. If you are uncertain, ask chemical supplier if material can safely be stored in a polyethylene tank. USE OF TANK WITH ANY OTHER MATERIAL COULD CAUSE TANK TO FAIL, RESULTING IN INJURY OR PROPERTY DAMAGE.
- 9. DO NOT MIX CHEMICALS. THIS CAN RESULT IN DAMAGE TO THE TANK OR NEARBY PERSONS OR PROPERTY.
- 10. Clean out tank before changing chemicals OTHERWISE A DANGEROUS MIXTURE OF CHEMICALS COULD CAUSE DAMAGE TO PERSONS, TANK OR PROPERTY.
- Regular service and maintenance is the Owner's responsibility and is a condition of your warranty.
- 12. FAILURE TO COMPLY WITH ALL WARNINGS AND INSTALLATION INSTRUCTIONS WILL VOID WARRANTY.

- 13. No modifications and/or alterations may be made to this sprayer. Any such modifications not only void the sprayer warranty but can make the unit dangerous to anyone operating the pump.
- 14. Always inspect hoses and piping to avoid burst injuries.
- 15. DO NOT turn suction valve off while pump is running. NEVER RUN PUMP DRY.

COMPATIBLE LIQUIDS

Calcium Chloride Brine, Salt Brine and Premium Branded Liquids.

▲ Caution: Brine that contain tacky substances or solid particles may clog pumps and nozzles. These are not recommended.

▲ Warning: DO NOT USE any products that contain petroleum or petroleum by-products of any kind. These destroy seals and will void warranty.

Discover More Helpful Tips: www.lceControlTraining.com

Setting-up the Sprayer

1) Wind the hose reel handle into place.



2) If you ordered a hitch mount boom for your Liquid Master® E-Series unit, you can mount it to the hitch on your pickup.



3) If you wish to mount a boom, add the bolts and plastic washers to each of the boom brackets.



4) Connect the brackets to the frame and loosely secure them in order to mount the boom.



Liquid Master® E-Series

Setting-up the Sprayer

5) Feed the wire harness through the whole in the back of the metal box.



6) Connect the cables to the pumps. Make sure to plug in the correct connectors to the corresponding pumps as shown in this image.



7) Run the power cable up to your cab and connect it to your controller.



8) Connect the controller to the power cables.



Setting-up the Sprayer

9) Hook up the power cables to your battery.





Watch Instruction Videos:

www.youtube.com
Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips:

www.lceControlTraining.com

Operating the Sprayer

1) You will need to complete a liquid recirculation test before using the sprayer. Start by filling the tank at least 1/4 full of water.



2) Make sure the cam lock caps are on your right, left, and center boom ports.



3) Turn all three pressure regulators **counter clockwise** until they are fully open.



4) Switch the yellow handle to the horizontal position labeled as "boom spray".



10

GETTING STARTED

Operating the Sprayer

5) Switch on all three pumps, using the solenoid controller.



6) Once the pumps are running, check that water is recirculating freely back into the tank. Once liquid is circulating back into the tank, your re-circulation test is complete.



7) Turn your pumps back off. Once your pumps are no longer running tighten the pressure regulators **clockwise** until they are tight.



Important Note:

You will need to keep your pressure regulators tightened, for maximum pressure. You can expect approximately 20-30 psi from your center pump and approximately 10-15 psi from your left and right pumps.

Operating the Sprayer

Pro Tip:

When you are spraying using all three pumps, you will be outputting approximately 10 gallons per minute.

8) If you wish to fill the tank from an external source, hook up your fill hose to the external fill valve and make sure the valve is open. Then start the pump at your liquid source and it will pump liquid straight into the tank.



9) To use the spray gun, ensure the valve to the hose reel is in the open position.



10) To clean your filter during use, twist the red insert clockwise and pull it out. This will engage a valve in the filter body to stop liquid from draining out the line.



Operating the Sprayer

11) Unscrew the cap and remove the filter for cleaning.



12) To drain your tank, remove the cam-lock cap on the front of the frame and open the valve. This will completely drain the tank as the hose is fed from the bottom sump in the tank.



13) If you are experiencing trouble with your center lane pump while spraying, you can exchange it with one of the side discharge pump ports to continue spraying with your center lane.



14) Simply unhook the hoses and exchange the pump hook ups.



Liquid Master® E-Series



Watch Instruction Videos:

www.youtube.com

Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips: www.lceControlTraining.com

Installing the Sprayer

1) The two openings at the front of the frame allow you to move the unit using fork points.



2) When loading your sprayer, we recommend placing a block of wood between your sprayer and the front of the bed of your truck.



3) On the Liquid Master® E-Series, there are tie-down points on the side of the frame that allow you to strap the unit down.



4) We recommend you run clean water through the entire unit before using salt brine to check for any unexpected leaks caused in shipping.



Liquid Master® E-Series

Installing the Sprayer

5) If you ordered a storage stand, you can attach the legs with the pin system supplied.





Watch Instruction Videos:

www.youtube.com

Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips:

www.lceControlTraining.com

Connecting the Boom

1) Slide the boom on to the quick attach brackets.



2) Tighten the hardware making sure the square neck on the carriage bolt is fully inserted through the slot.



3) Take the hose, connect it to its fitting, and tighten it using the camlock.



4) Once the boom is secure, tighten the hardware on the boom brackets to make sure they are also secure.





Watch Instruction Videos:

<u>www.youtube.com</u> Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips:

www.lceControlTraining.com

CALIBRATING

Note: Always double check your application rates. The rate/acre listed is only based off the center section (not the two side nozzles)

| NOZZLE COLOR | PSI | CAPACITY ONE NOZZLE IN GPM | 4 MPH | 9 WPH | 8 MPH | 10 MPH |
|--|-----|-------------------------------------|----------|----------|----------|-----------|
| | 10 | 09.0 | 62 | 41 | 31 | 25 |
| Stainless | 20 | 0.71 | 88 | 59 | 44 | 35 |
| Steel | 30 | 0.87 | 108 | 72 | 54 | 43 |
| | 40 | 1.00 | 124 | 82 | 62 | 50 |
| | 20 | 0.56 | 69 | 46 | 35 | 28 |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 30 | 0.72 | 89 | 59 | 45 | 36 |
| מאוונת | 40 | 08.0 | 66 | 99 | 50 | 40 |
| | 20 | 0.88 | 109 | 73 | 54 | 44 |
| | 15 | 0.92 | 114 | 76 | 57 | 46 |
| 2 | 20 | 1.06 | 131 | 87 | 99 | 52 |
| ב ש ט ס | 30 | 1.30 | 161 | 107 | 80 | 64 |
| | 40 | 1.50 | 186 | 124 | 93 | 74 |

GPM = Gallons Per Minute

GPA = Gallons Per Acre

GAL/1000 FT = Gallons Per 1000 Square Feet

W = Nozzle spacing

Gallons Per Minute Formula:

GPA x MPH x W (per nozzle)

5,940

Gallons Per Minute Formula:

GAL/1000FT x MPH x W (per nozzle)

136

Gallons Per Acre Formula:

5,940 x GPM (per nozzle)

MPH x W

Gallons Per 1000 Square Feet:

136 X GPM (per nozzle)

MPH x W

Convert Acres to Lane Mile:

1.4545 = 1 Lane Mile

Note: For video instructions on how to calibrate a boom visit http://bit.ly/IMS-boom-calibration

MAINTAINING

Keeping your sprayer in good condition will help you lengthen the life of the sprayer. Everyone knows a well maintained piece of equipment ensures a longer life span. Sprayer maintenance can seem a huge task if you don't have the right tools.



Watch Instruction Videos:

www.youtube.com
Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips: www.lceControlTraining.com

| The information applies in normal operating ened accordingly for longer daily working he intervals can be extended accordingly. | The information applies in normal operating conditions. The specific intervals must be short- ened accordingly for longer daily working hours. If the machine is only used occasionally, the intervals can be extended accordingly. | Before starting work | At the end of work and/or daily | Weekly or every 40 operating hours | After the first 5 operating hours | Every 250 operating hours o once a year | If damaged | If required |
|---|--|----------------------|---------------------------------|------------------------------------|-----------------------------------|--|------------|-------------|
| ori doctor | Visual inspection (condition, leaks) | × | | | | | | |
| | Clean | | | | | | | |
| Tout hoose and fittings | Clean | | × | | | | | |
| idilk, nosës dha nungs | Drain | | × | | | | | |
| In-line filter | Clean | | × | | | | | × |
| 0.0000 | Clean | | | | | | | × |
| opiay iance nozzie | Replace | | | | | | × | |
| All accessible screws and nuts | Retighten | | | | | | | × |
| Safety labels | Replace | | | | | | × | |
| Pump | Maintain | Read a | nd follow | all mainte Pui | intenance and Pump manual. | Read and follow all maintenance and care instructions in the Pump manual. | structions | in the |

TROUBLESHOOTING

| CONDITION | CAUSE | REMEDY |
|---|---|---|
| Pump will not prime | 1) Air leak on suction plumbing 2) Blocked/Restricted intake hose 3) Filter cap disengaged 3) Filter gasket damaged/missing | 1) Tighten/replace fittings & hose clamps. Verify suction hoses are in good condition 2) Remove blockage from suction line, ensure line is not kinked 3) Lock filter cap into position 4) Replace filter gasket |
| Pressure drops/ fluctuates during standard operation | 1) Restriction on suction line 2) Pump sucking air 3) Plugged filter 4) Damaged regulator | 1) Inspect tank and suction lines and remove restriction 2) Tighten fittings 3) Remove and clean filter mesh and housing 4) Remove regulator stem and inspect for broken parts/pieces |

| CONDITION | CAUSE | REMEDY |
|--------------------------------|--|---|
| Pressure gauge not registering | 1) Plugged with debris | 1) Un-thread, check and clean pressure gauge |
| Hand gun loses pressure | 1) Debris in hose or nozzle 2) Pump losing prime 3) Pump pressure dropping/fluctuating | 1) Un-thread nozzle tip and clean 2) See Remedy for 'Pump will not prime or loses prime' 3) See Remedy for 'Pressure drops/ fluctuates during standard operation' |



Watch Instruction Videos:

www.youtube.com

Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips: www.lceControlTraining.com

WARRANTY

1. Poly Tank Limited Warranty - Subject to other terms in this Limited Warranty, Manufacturer warrants to the original end user that this Tank will be free from material defects caused during the manufacturing process for a period of 5 years from the Purchase Date provided such warranty to the original end user shall be extended to 10 years from the Purchase Date if the original end user registers the Tank with Manufacturer within 30 days of the Purchase Date. To register the Limited Warranty, registration must be completed in accordance with the requirements set forth at enduraplaswarranty.com

Other Products and Parts Limited Warranty - Subject to other terms in this Limited Warranty, Manufacturer warrants to the original end user that products and parts manufactured by Manufacturer (other than tanks) will be free from material defects caused during the manufacturing process for a period of 1 year from the Purchase Date unless otherwise expressly stated in writing by Manufacturer that an extended warranty applies.

2. Other Warranties Disclaimed and Excluded

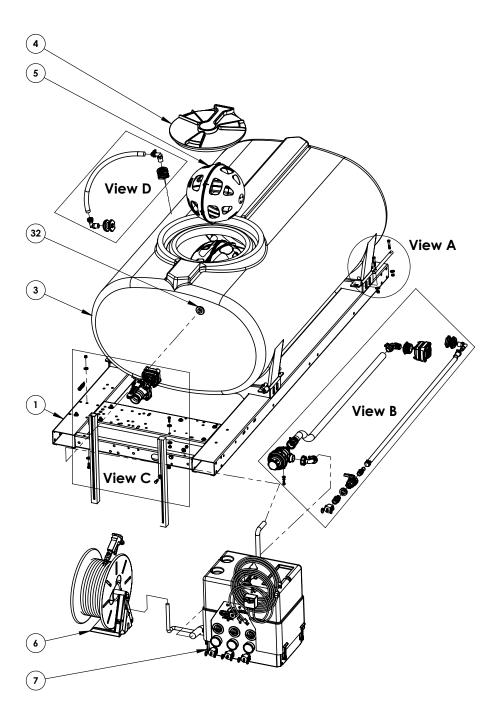
THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE LIMITED WARRANTY HEREIN STATED, AND MANUFACTURER EXPLICITLY DISCLAIMS AND EXCLUDES ANY AND ALL OTHER WARRANTIES INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, CUSTOM OR USAGE OF TRADE, AND COURSE OF DEALING. NO AGENT, EMPLOYEE OR REPRESENTATIVE OF MANUFACTURER HAS AUTHORITY TO BIND MANUFACTURER TO ANY REPRESENTATION OR WARRANTY EXCEPT AS STATED IN THIS LIMITED WARRANTY.

- 3. Limitation of Liability under the Limited Warranty In addition to those warranties disclaimed and excluded in clause 2 above, Manufacturer expressly further limits its warranty and liability under the Limited Warranty as set forth below in this clause 3.
 - 3.1. The liability of Manufacturer under this Limited Warranty is excluded to the extent that any defect has been caused or contributed to by:
 - any accident, contamination, tampering, willful damage, abuse, modification, improper storage, improper use (including but without limitation the storage of material) or negligent act of, or omission by, any person other than Manufacturer;
 - b) the improper installation of the Goods, or deterioration of the base on which any of the Goods rest or are mounted to:
 - any damage to the Goods caused by storm, wash away, landslide, mudslide, lightning, or any other natural phenomenon, vermin or other pests, and any undermining of the base of the Tank through any cause whatsoever;
 - the repositioning of the Goods from their original installation;
 - e) weathering or degradation of the Goods due to extreme climatic conditions;
 - f) improper installation of extra fittings;
 - g) any staining or discoloration, including from trees or ash fall-out from fires or other causes;
 - a Tank not being placed on a base that is free of any protruding objects of any kind;
 - a Tank being used for any purpose other than the storage of suitable liquids at the ambient temperatures.

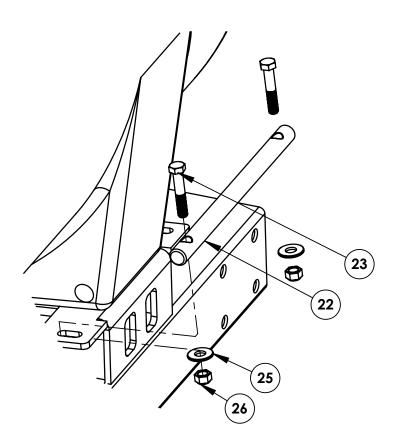
- 3.2. Without limiting the generality of clause 3.1:
 - Manufacturer will not be liable for any personal injury, indirect or incidental damages, consequential losses, loss of liquids, loss of profit or any like claims whatsoever arising from any use of, or incidental to, or repairs to any of the Goods by a party other than Manufacturer;
 - to the extent that any component or material (including, but without limitation the polyethylene) used in the manufacture of any of the Goods is supplied and/or manufactured by a third party, the liability of Manufacturer is limited to Manufacturer's right of redress (if any) against the third-party supplier/manufacturer;
 - c) Tanks feature a vented lid at the time of manufacture.
 Any subsequent pressurization of the Tank by removing the vent, sealing the vent, or otherwise will cause this Limited Warranty as to such Tank to be null and void.
 - d) The liability of Manufacturer under this Limited Warranty is limited to, at Manufacturer's discretion:
 - e) providing a replacement Good (including shipping but excluding other replacement costs):
 - f) refunding an amount equal to a sum equal to the current Retail price divided by the months in the warranty, multiplied by the months remaining in the warranty period;
 - g) repairing the Good at no cost.
- 4. Proof of Purchase The original invoice or other similar proof of purchase of the applicable must be provided by Purchaser to Manufacturer when making a claim under this Limited Warranty. Warranty claims must be received in writing by Manufacturer within the Limited Warranty period.

- 5. Claims and Questions If you have questions about this Limited Warranty or to make a warranty claim, contact Manufacturer at: customercare@enduraplas.com
- 6. Definitions For this Limited Warranty the following definitions apply:
 - a) Manufacturer means Enduraplas LLC.
 - b) Purchase Date means the date upon which the applicable goods were purchased by the original end user.
 - c) Purchase Price means the actual price paid for the Tank by the original Purchaser.
 - Tank means the storage Tank manufactured by Manufacturer and purchased by the original end user Purchaser being the subject matter of the Limited Warranty.
 - e) Good(s) mean Tanks and/or other products or parts manufactured by Enduraplas LLC.
 - f) Limited Warranty means this written Limited Warranty.
- 7. State Law Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to certain parties. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to certain parties. This limited warranty gives specific legal rights and other rights, which vary from state to state, may also apply.
- 8. Governing Law This Limited Warranty will be governed by the laws of the State of Minnesota, without giving effect to any choice of law rule that would cause the application of the laws of any other jurisdiction.

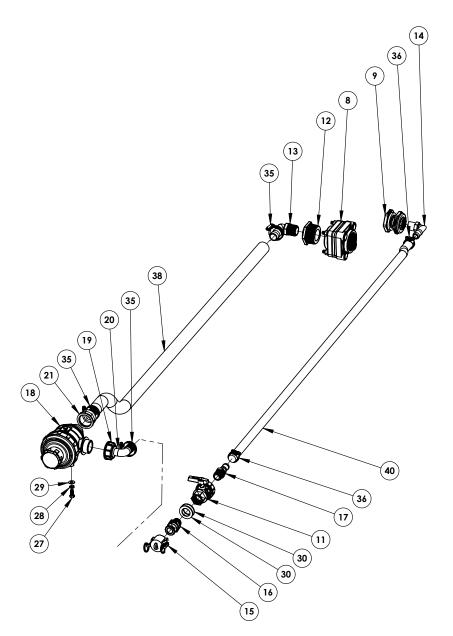
OVERVIEW



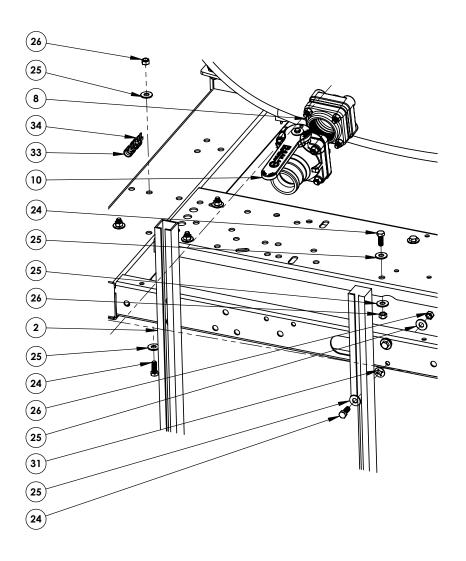
DETAIL VIEW A



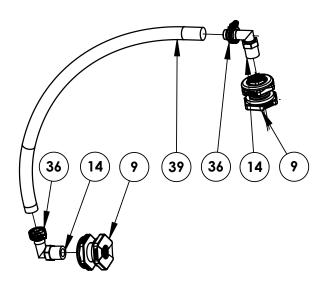
DETAIL VIEW B



DETAIL VIEW C



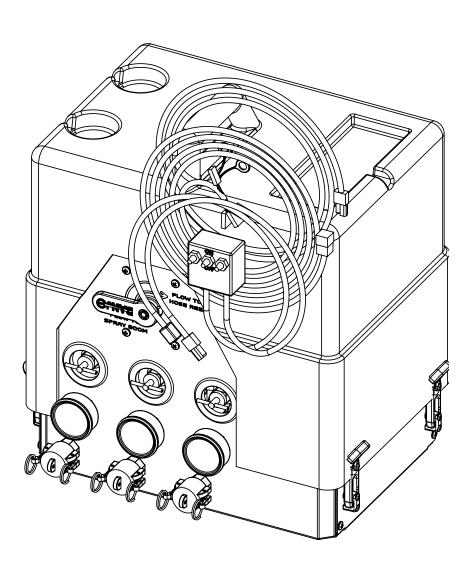
DETAIL VIEW D



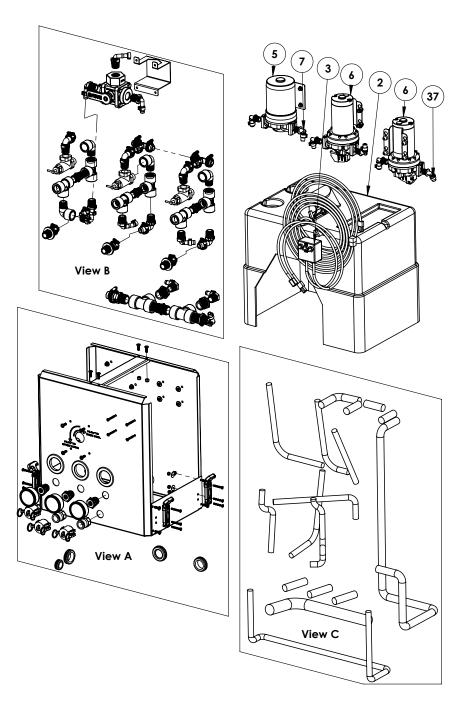
PARTS LIST

| ITEM NO. | PART # | DESCRIPTION | QTY. |
|----------|--------------|---|------|
| 1 | AZFPM0300SS | 300-400Gal ProMaster Frame | 1 |
| 2 | AZKB0005SS | 23.75" Stainless Steel Adj. Boom Bracket | 2 |
| 3 | THD00300OE | 300 Gal Sump Tank | 1 |
| 4 | CFLP16HV | 16 inch Hypro Lid Hinged | 1 |
| 5 | AVB355 | STBBS35 Lg Baffle Ball | 28 |
| 6 | CPA0100 | Ice Master Base Mount Hose Reel | 1 |
| 7 | IMSC1004 | Ice Master Pump Box E-Series | 1 |
| 8 | CBBF235 | 2" Bolted Tank Flange | 2 |
| 9 | CBTF075 | 3/4 inch Poly Tank Fitting | 3 |
| 10 | CBVSFMT204FP | 2 FP MALE ADAPTER X 2 MALE NPT THREADS | 1 |
| 11 | CVPBV234 | 3/4 FPT Union Valve | 1 |
| 12 | CBRB200100 | 2 MPT X 1 FPT REDUCER BUSHING | 1 |
| 13 | CFPE05M05B | 1 inch Male thread x 1 inch hose barb 90 | 1 |
| 14 | CFPE04M04B | .75 Male Thread x .75 Hose Barb 90 | 3 |
| 15 | CB075CAP | 1/2 and 3/4 Camlock cap | 1 |
| 16 | CB075F | Male adaptor x .75 MPT | 1 |
| 17 | CFPS04M04B | 3/4 Male thread to 3/4 hose shank | 1 |
| 18 | CA3132453 | Automatic filter 1 1/4" | 1 |
| 19 | CA2002050 | Fly-Nut 1.25 | 1 |
| 20 | CA116525 | Hosetail D. IN for Fly-Nut 1 | 1 |
| 21 | CA100525 | 1.25 BSP x 1 inch hose barb | 1 |
| 22 | AZP02SS | 11/16 x 10.5" SS tie down pin | 4 |
| 23 | CHBS030923 | .375 x 2 Stainless Steel bolt | 8 |
| 24 | CHBS030523 | 3-8 x 1 SS Hex Bolt | 12 |
| 25 | CHWSF033 | 3/8 SS Flat washer | 32 |
| 26 | CHNZN0325 | 3/8 Stainless Nylock nut | 20 |
| 27 | CHBS8014083 | M8 x 20 MM SS hex bolt | 3 |
| 28 | CHWSL8083 | 18-8 SS LOCK WASHER | 3 |
| 29 | CHWSF023 | 5-16 SS FLAT WASHER | 3 |
| 30 | CHWSF103 | 1 SS Flat Washer | 2 |
| 31 | CHWNR03 | Self retaining washer for 3/8 and M9 | 4 |
| 32 | CPFG15 | 3/4 Press fit hose grommet | 1 |
| 33 | CXT0001 | Cable Tie 14" | 2 |
| 34 | CXSC0002 | Cable Tie 8" | 2 |
| 35 | CFCW003 | Clamp for 1 inch hose | 3 |
| 36 | CFCW001 | Clamp for 3/4 hose | 4 |
| 37 | CFCC003 | Clamp for 1/2" Hose | 1 |
| 38 | CLUESB020005 | 1 IN EPDM Hose | 1 |
| 39 | CLUVGC03504 | .75 Site Gauge Hose | 1 |
| 40 | CLUESB020004 | 3/4 Hose from .75 tank fitting to drain valve 400 Gal | 1 |

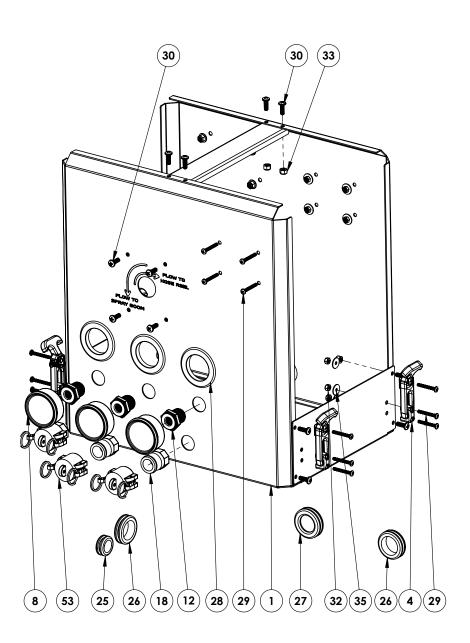
OVERVIEW



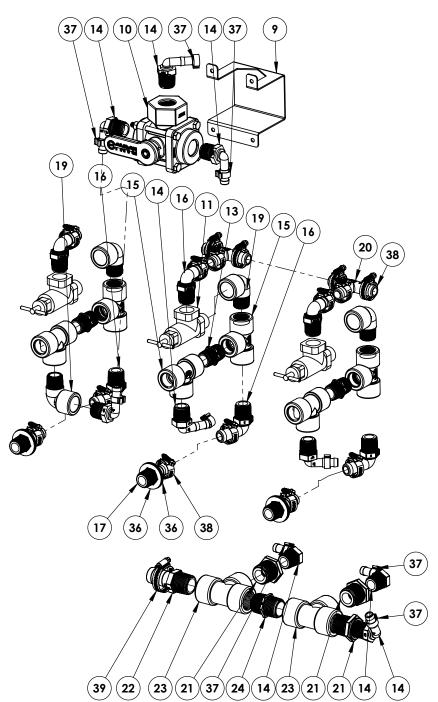
OVERVIEW



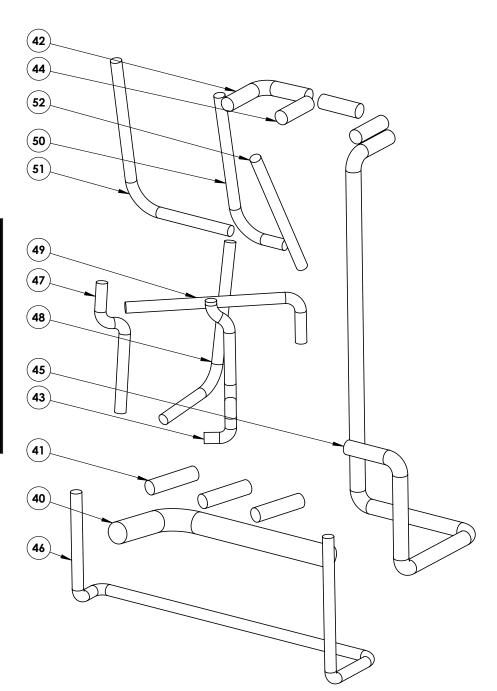
DETAIL VIEW A



DETAIL VIEW B



DETAIL VIEW C



PARTS LIST

| TEM NO. | Part # | DESCRIPTION | QTY |
|---------|----------------------------|---|-----|
| 1 | CSLC354 CSLC355 CSLC356 | Electric Deicing Pump Box | 1 |
| 2 | AVPC01 | Pump Engine Cover | 1 |
| 3 | CEWCIM04 | IM Wire Harness-E Series | 1 |
| 4 | AZKF0022 | Flexible Rubber T-Handle Draw Latch | 4 |
| 5 | APD07G060PQB | 7 GPM 60PSI, Bypass, 1/2" Quick Attach | 1 |
| 6 | APD05G060P | 5 GPM 60 PSI QA Pump | 2 |
| 7 | CPPDD006 | 5900 Series 1/2" Elbow 90 | 6 |
| 8 | CV2241GXB100 | Pressure gauge 100psi Glycerin filled | 3 |
| 9 | CSLC373 | Deicing electric pump box valve holder | 1 |
| 10 | CBV075SL | 3/4 Side Load 3 Way Valve | 1 |
| 11 | CVRV20660158 | .75 Pressure Relief Valve | 3 |
| 12 | CBRB075025 | .75 x .25 FPT Reducer Bushing | 3 |
| 13 | CFPN04M04M | 3/4 Short Nipple | 3 |
| 14 | CFPE04M02B | 3/4" MPT x 1/2" Hose Barb 90 | 9 |
| 15 | CBTEE075 | 3/4 Poly Pipe Tee | 6 |
| 16 | CBHB07590 | 3/4 Male Thread x 3/4 Hose Shank 90 | 6 |
| 17 | CFPS04M04B | 3/4 Male thread to 3/4 hose shank | 3 |
| 18 | CB075A075 | .75 adap x .75 Female thread | 3 |
| 19 | CBSL07590 | 3/4 Poly Street Elbow 90 | 4 |
| | | · , | |
| 20 | CFPT04B | .75 Hose Barb Tee | 2 |
| 21 | CV3RB10034 CFPS05M05B | REDUCER BUSHING 1 MPT X .75 FPT 1 Inch hose barb | 1 |
| 23 | CBTEE100 | 1 111 11 | 2 |
| | | 1 inch pipe tee | |
| 24 | CFPN05M05M | 1 Short Poly Nipple | 1 |
| 25 | CPFG07 | Grommet for .5 hose | 1 |
| 26 | CTMG001 | Grommet 1.5 ID | 2 |
| 27 | CTMG001BLANK | 1.75 Round Grommet Plug | 1 |
| 28 | CPFG16 | 2 inch ID Grommet | 3 |
| 29 | CHSS90073 | 10-32 x 1.5 SS 18-8 Panhead Screw | 20 |
| 30 | CHMS010333 | 1/4" x 3/4" SS Panhead Phillips Bolt | 16 |
| 31 | CHBS010723 | 1/4 X 1-1/2 SS Bolt | 4 |
| 32 | CHNSN903 | 10-32 18-8 SS LOCKNUT | 20 |
| 33 | CHNSN0123 | 1/4" Stainless Lock Nut | 20 |
| 34 | CHWSF013 | .25 SS Flat Washer | 4 |
| 35 | CHWSK903 | 10 X .75 Fender Washer SS | 20 |
| 36 | CHWSF103 | 1 SS Flat Washer | 6 |
| 37 | CFCC003 | Clamp for 1/2" Hose | 15 |
| 38 | CFCW001 | Clamp for 3/4 hose | 15 |
| 39 | CFCW003 | Clamp for 1 inch hose | 1 |
| 40 | CLUESB020005 | 1" EPDM Hose Filter to Manifold | 1 |
| 41 | CLUESB020004 | .75 IN EPDM Hose To Boom Ports | 3 |
| 42 | CLUESB020004 | .75" EPDM Hose Left Pump Return | 1 |
| 43 | CLUESB020004 | .75 IN EPDM Hose Right pump to Right Boom | 1 |
| 44 | CLUESB020004 | .75"EPDM Hose Center&Left Pump First Return | 3 |

PARTS LIST

| ITEM NO. | Part # | DESCRIPTION | QTY. |
|----------|--------------|--|------|
| 45 | CLUESB020004 | .75 IN EPDM Hose Return to Tank | 1 |
| 46 | CLUESB020002 | .5 IN EPDM Hose 2-way valve to Hose Reel | 1 |
| 47 | CLUESB020002 | .5 IN EPDM Hose 2-way valve to Boom Supply | 1 |
| 48 | CLUESB020002 | .5" EPDM Hose Center pump to Center Boom | 1 |
| 49 | CLUESB020002 | .5" EPDM Hose Left pump to 2 way valve | 1 |
| 50 | CLUESB020002 | .5" EPDM Hose Supply Left Pump | 1 |
| 51 | CLUESB020002 | .5" EPDM Hose Supply Center Pump | 1 |
| 52 | CLUESB020002 | .5" EPDM Hose Supply Right Pump | 1 |
| 53 | CB075CAP | 1/2 and 3/4 Camlock cap | 3 |
| | | | |



Watch Instruction Videos:

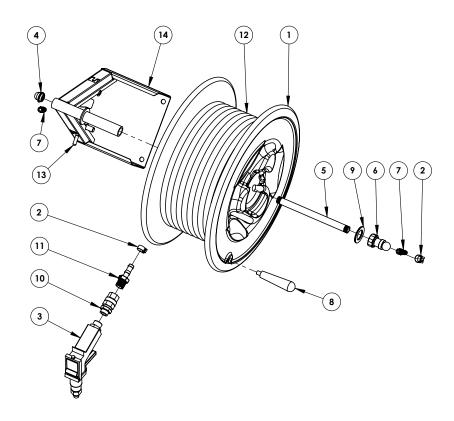
www.youtube.com

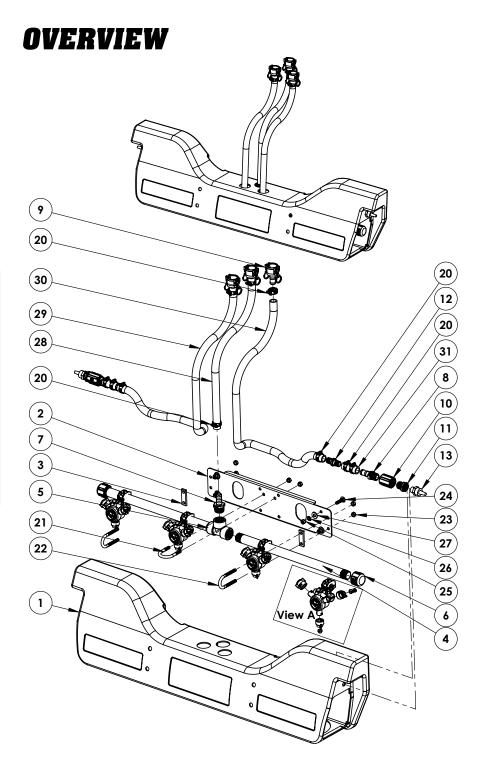
Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips: www.lceControlTraining.com

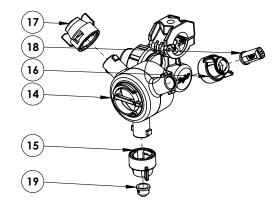
DETAIL VIEW HOSE REEL

| ITEM NO. | PART # | DESCRIPTION | QTY. |
|----------|--------------|---|------|
| 1 | AMAH01GY | HR030/050 REEL ONLY | 1 |
| 2 | CFCC003 | Clamp for 1/2" Hose | 2 |
| 3 | CPLF01 | Heavy Duty Spray Gun STAL16-viton seals | 1 |
| 4 | CFRB06 | 1/4-3/8 BSP FEMALE ELBOW | 1 |
| 5 | CFRB07 | STAINLESS PIPE 3/8 THREAD BOTH ENDS | 1 |
| 6 | CFRB08 | 3/8 X 1/4 BALL BEARING SWIVEL | 1 |
| 7 | CFRB09 | 1/4 MALE THREAD X 1/2 HOSE BARB | 2 |
| 8 | CFRH03C | PHENOIC TAPERED HANDLE | 1 |
| 9 | CHWZF105 | 1 SAE Flat Washer | 1 |
| 10 | CFBW04M04FB | .5 M BSP5 F NPT Heavy Duty Swivel | 1 |
| 11 | CFPS02M02B | 1-2 MPT x 1-2 Hose Barb | 1 |
| 12 | CLUESB020002 | 1/2 EPDM HOSE | 1 |
| 13 | AZKH0018 | Lock for Small Hose Reel | 1 |
| 14 | AZKH0003SS | 3ASR03B HR FRAME 304 SS | 1 |





DETAIL VIEW A



| ITEM NO. | Part # | DESCRIPTION | QTY. |
|----------|---------------|--|------|
| 1 | AMICS001 | Poly Shroud For 6 Nozzle Ice Boom | 1 |
| 2 | AZFPM005 | IMS4-6 Stainless boom bracket | 1 |
| 3 | AZFPM007 | 1/4" SS Boom Spacer | 2 |
| 4 | AZFPM008 | 1 inch poly boom pipe 21 IN | 2 |
| 5 | CBTEE100 | 1 inch pipe tee | 1 |
| 6 | CBCAP100 | 1 POLY PIPE CAP | 2 |
| 7 | CBHB100075 | 1 Male thread x .75 hose barb | 1 |
| 8 | CFPS04M04B | 3/4 Male thread to 3/4 hose shank | 2 |
| 9 | CB075C | FEMALE COUPLING X .75 HOSE SHANK | 3 |
| 10 | CBCPLG075 | .75 Poly pipe coupling | 2 |
| 11 | CV3RB3412 | .75 x .5 reducer bushing poly | 2 |
| 12 | CNST016 | 3/4" Hose Barb Check Valve 3 lb | 2 |
| 13 | CNBC009 | Hypro Boomless Nozzle 4.3 GPM | 2 |
| 14 | CNST001 | 1 IN 3 Way Nozzle Holder QJ383 | 4 |
| 15 | CNST006 | 25608 REP. CAP CE Black & Washer | 4 |
| 16 | CNST004 | 25598 REP. CAP CE White & Washer | 4 |
| 17 | CNST009 | Teejet Tip/CAP XR 1.5 GPM | 4 |
| 18 | CNST002 | 3 Stream White Nozzle | 4 |
| 19 | CNST007 | Teejet Tip, ST. STL single stream | 4 |
| 20 | CFCW001 | Clamp for 3/4 hose | 10 |
| 21 | CHUS031234002 | 1.75 SS U-Bolt | 1 |
| 22 | CHUS031234001 | 1.375 SS U-bolt | 2 |
| 23 | CHNZN0325 | 3/8 Stainless Nylock nut | 6 |
| 24 | CHBS030723C | 3/8" x 1-1/2" SS Carriage Bolt | 4 |
| 25 | CHNSH0323 | 3/8 SS Hex Nut | 4 |
| 26 | CHWSL033 | 3/8" SS Lock Washer | 4 |
| 27 | CHWSF033 | 3/8 SS Flat washer | 4 |
| 28 | CLUESB020004 | 3/4" hose (center boom hose) | 1 |
| 29 | CLUESB020004 | 3/4" hose (to boomless nozzle) | 1 |
| 30 | CLUESB020004 | 3/4" hose (to boomless nozzle) | 1 |
| 31 | CLUESB020004 | 3/4" Hose (check valve to boomless nozzle) | 2 |

ACTIVATE YOUR 10-YEAR WARRANTY

How to Activate

To double your 5-year tank warranty, visit <u>enduraplaswarranty.com</u> and register this product.



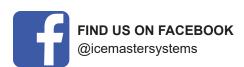
Watch Instruction Videos:

www.youtube.com
Search 'ICE MASTER SYSTEMS'

Discover More Helpful Tips: www.lceControlTraining.com

STAY CONNECTED

Want to be kept up-to-date on the latest news and information from ICE MASTER SYSTEMS? ICE MASTER SYSTEMS has several ways to get easy access to news alerts and instant updates on what's happening. Join the ICE MASTER SYSTEMS Community and connect with other fans, participate in giveaways, see videos of products in action, give us input on new products, share your ICE MASTER SYSTEMS photos, and much more.









ICE MASTER SYSTEMS®

by Enduraplas

1 (877) 877-4370 info@icemastersystems.com www.icemastersystems.com

113 1st Street, Neche ND 58265, USA



Discover More Helpful Tips: www.lceControlTraining.com