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CertiSafe™ Tank Mixer

Operation & Maintenance Manual

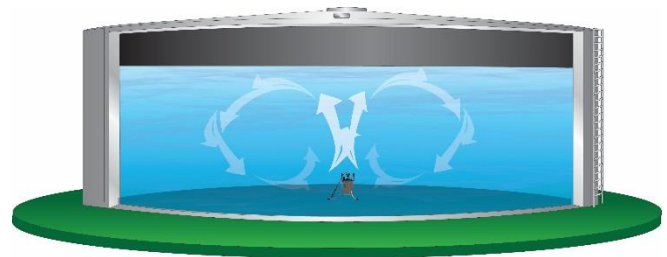
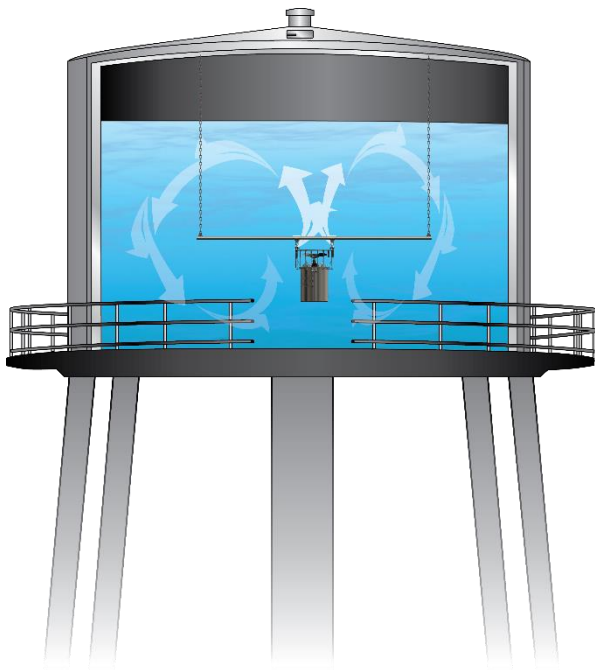


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IMPORTANT: PLEASE READ THIS MANUAL AND SAVE FOR FUTURE REFERENCE.

SAFETY FIRST

- Under NO circumstances should anyone enter the water with the mixer connected or in operation.
- Running the unit out of water will damage the seals and create a dangerous situation.
- NEVER lift the unit by the power cord. If you need to remove the mixer, use the installation cables or installation apparatus.
- The unit must be connected to an GFCI protected circuit.
- Electrical service disconnect in accordance with local and national wiring standards.
- Consult a qualified professional for electrical installation.



SYSTEM OVERVIEW

The Kasco CertiSafe™ mixer is part of a submerged active mixing system. It is intended for potable water to eliminate thermal stratification and ice formation, as well as maintaining residual disinfectant uniformity.

CertiSafe™ mixers are shipped prepared for use. The motor is equipped with thermal overload protection. However, the mixing unit must be continuously submerged to ensure safe operation. It is important the installation provides appropriate voltage to the motor.

Operating the mixer continuously provides maximum water circulation in your tank. Optional system controls are available from Kasco for mixer units.

CertiSafe™ systems have a maximum operating depth of 50ft. Effective mixing can be achieved in deeper tanks with mounting at or above this depth.

SYSTEM SPECIFICATIONS

Model	Voltage	Phase	Current Draw	Lock Rotor Current
2400C61	120	1	5.7	12
3400C61	120	1	6.2	18
3400HC61	240	1	3.1	9
4400C61	120	1	9.1	40
4400HC61	240	1	4.5	20
840061	240	1	9.0	40



MAINTENANCE RECOMMENDATIONS

IMPORTANT: Disconnect electrical power prior to any maintenance or servicing!



GFCI

GFCI (Ground Fault Circuit Interrupter) is a safety feature that can alert you to problems with the mixer. It is important to test the GFCI upon installation, each reinstallation, and regularly thereafter to ensure consistent operation. If you experience repeat interruptions, the equipment should be disconnected and removed. The power cord and unit (mixer) should be inspected for damage. If no damage is apparent, please contact your Kasco distributor or representative for further instruction.

Observation

The operating mixer should be monitored for any reduction or variation in performance. If a deficiency in performance is noted, the equipment should be removed from service and inspected for any damage or failure.

Cleaning

The stainless-steel motor housing needs to be kept clean to allow heat to effectively dissipate.

Seal and Oil Replacement

Seal replacement and oil change every 3-5 years will add reliability and longevity to the mixer.

Seal replacement and all other repair services should be performed by Kasco Marine or a Kasco trained Authorized Repair Center. Please contact your Kasco Marine, Inc. distributor or representative for your nearest Authorized Repair Center.



Intertek

3020379
ANSI/UL 778: 2016
Ed.6+R:22Feb2017
CSA C22.2 #108: 2014 Ed.5



Certified to
NSF/ANSI 61 & 372

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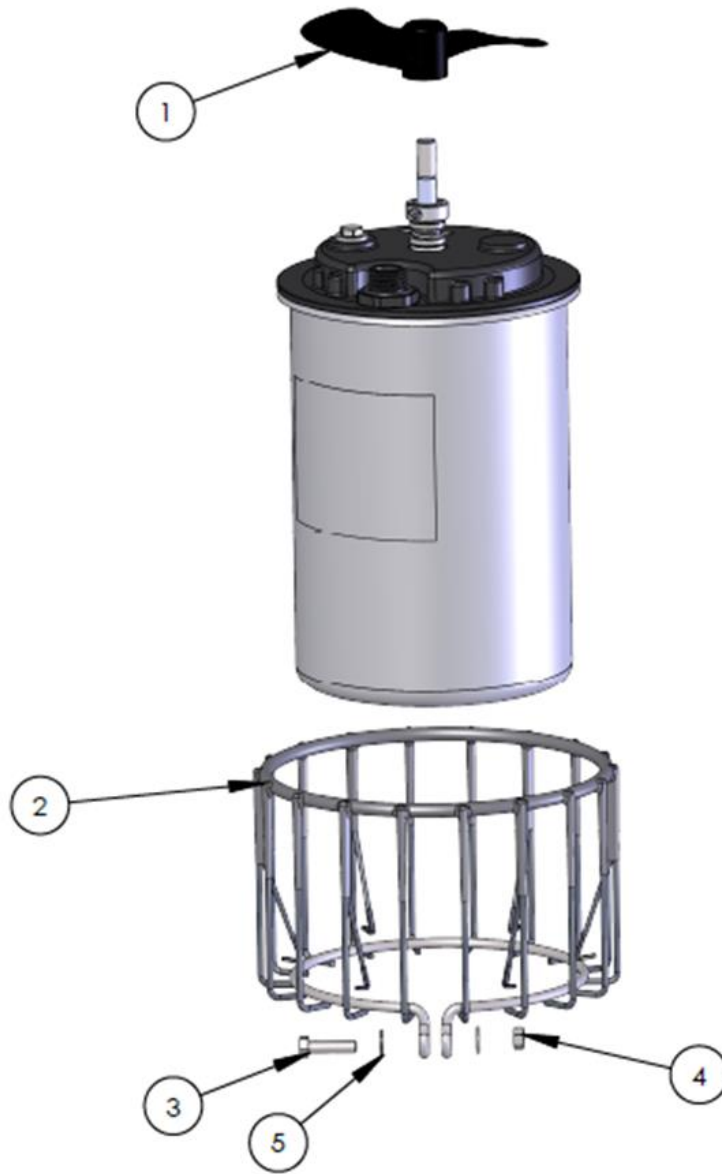


Electrical Troubleshooting

When a unit fails to operate, a series of simple checks can determine general cause:

IS THE GFCI TRIPPED?	<ol style="list-style-type: none"> 1. If yes, reset the GFCI and check operation. 2. If the GFCI continues to trip, disconnect the unit in the panel, and reset the GFCI. 3. If the GFCI doesn't trip, the fault lies in the unit or it's cord. 4. If the GFCI continues to trip, the fault lies in the control panel power source.
IS THE CORD DAMAGED?	<ol style="list-style-type: none"> 1. With power off, perform a visual inspection of the power cord. If there is visible damage, or areas of question, contact your distributor for repair options.
ALTERNATE POWER SOURCE	<ol style="list-style-type: none"> 1. If the power cord and unit appear in good condition, safely plug it into an alternate GFCI protected power source. If the unit starts and continues to run, fault lies in the control panel or power source. 2. If the alternate GFCI continues to trip, fault lies in the unit or cord.
CONTACT DISTRIBUTOR	<p>Once the fault is localized, please contact your distributor on how to proceed with repair.</p>

Replacement Parts



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1A	240170	PROPELLER, 2400, K	1
1B	340125	PROPELLER, 3400, J	1
1C	440400	PROPELLER, 4400, M	1
1D	820500	PROPELLER, 8400	1
2	990201	CAGE ASSEMBLY	1
3	261240	5/16-18x1 1/4 HHCS	1
4	261234	NUT, HEX	1
5	261231	5/16 FLAT WASHER	2

WARRANTY

The following models are offered with a standard 2-year warranty

- 2400C61
- 3400C61 / 3400HC61
- 4400C61 / 4400HC61

The following models are offered with a standard 3-year warranty

- 8400C61

Kasco® Marine, Inc. warrants this CertiSafe mixing system to be free from defects in material or workmanship under appropriate use and service. The Kasco Marine, Inc. obligation under this warranty is limited to replacing or repairing, without charge, proven defective part while within the warranty period. Customer shall pay shipping charges for returning the unit to Kasco or an Authorized Repair Center.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED. IN NO EVENT WILL KASCO MARINE, INC. BE LIABLE FOR ANY CONSEQUENTIAL DAMAGES.

Warranty is void if:

- The mixer is not maintained according to the recommendations supplied in this owner's manual.
- The mixer is returned for repair without the power cord.
- If the unit, control box, or power cord are altered in any way from original shipment.
- The power cord is nicked or cut.
- The mixer is damaged by unauthorized service.

Warranty Claim Procedure

Warranty period is established by the original receipt. For efficient service, please register the unit online at: www.kascomarine.com/warranty-registration.

Once warranty coverage has been established, the unit may be sent to a Kasco Authorized Repair Center for evaluation and repair. Call Kasco Marine at 715-262-4488 to locate your nearest authorized repair center. You can also email Kasco at: sales@kascomarine.com

Shipping Address:

Kasco Marine, Inc.
800 Deere Rd.
Prescott, WI 54021
Attn: Repairs



Note: Only complete assemblies will be accepted for warranty repair. The power cord and all other components must be returned with the motor as originally assembled. Any missing parts will be replaced at the customer's expense. It is not necessary to return the control panel, mount, or float with the motor assembly, unless specifically requested by a Kasco representative.

Please attach a repair form with the shipment. The repair form must include; a name, physical address (for return delivery of the repaired unit), daytime phone number, and an e-mail address for correspondence regarding the warranty claim.

Any expedited shipping method for the return of the unit is at the customer's expense. Kasco Marine will return units repaired under warranty at our expense via ground freight within the continental United States.

Non-Warranty Repairs

Often failed equipment can be repaired at a lower cost than a replacement.

Kasco Marine estimates repairs at the request of the customer. This request should include a daytime phone number and e-mail address. Estimate options are as follows:

- Contacting the customer with a total after the unit has been evaluated, but before the work is performed.
- Repair of the unit only if repair costs are under a stated dollar amount. Example: "Please repair if total is under \$150.00 before shipping charges."

All units sent for estimate that are declined for repair will be recycled unless otherwise directed by the customer. If the customer would like the unit returned, the unit will be returned to the condition in which it was received, and shipped at the customer's expense.

Billing

All non-warranty repairs will be returned to the customer and billed C.O.D. unless otherwise directed. Kasco Marine accepts Visa and MasterCard credit card payments. Kasco Marine will request credit card information upon customer approval of the estimate.

All other warranty and repair inquiries should be directed to Kasco Marine, Inc. at 715-262-4488 or returns@kascomarine.com.

Contact Information

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800 Deere Road
Prescott, WI 54021
Phone: 715-262-4488
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