

Classic Bubbler[™] Premix Cold Beverage Dispensers

Operation Manual

D Series

E Series

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Prior authorization must be obtained from GMCW for all warranty claims.

Retain this manual for future reference.



GMCW[™]

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0214 Form # CC-377-07 Part # 3682

SET-UP

UNPACKING

Your dispenser is packed in 2 cartons: base pack and bowl pack. Unpack base by opening <u>bottom</u> flaps. See Figure A.

IMPORTANT NOTES:

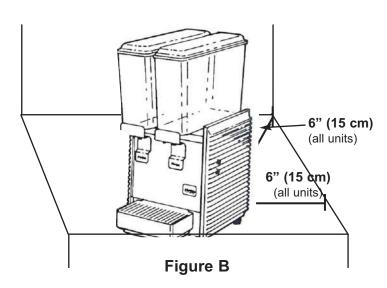
- 1. Do not leave base upside down as this can damage refrigeration system.
- 2. Check that all 4 rubber feet are attached to legs after removing from base pad. Check base pad or carton for missing feet and replace on legs.
- 3. Never lift from louvres/ventilation slots. Instead, place fingers under base plate.

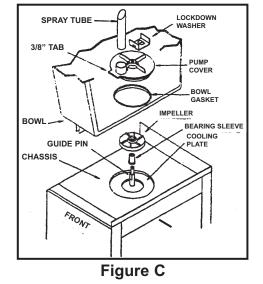
INSTALLATION

- 1. Place base on counter. The appliance has to be placed in a vertical position. See Figure B.
- Leave sufficient air space (6"(15cm)) on sides for proper airflow and efficient operation. See Figure B.

IMPORTANT: Failure to provide required airspace can damage unit.

- 3. Plug into properly grounded NEMA5-15R receptacle with a dedicated circuit breaker.
- 4. Assemble bowl parts and drain trays. See Assembly instructions (pgs 4-5). See Figure C.
- 5. 77°F 86°F (25°C 30°C) is suitable for the operation.





CAUTION

This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the applicance.

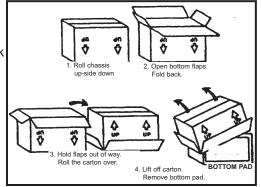
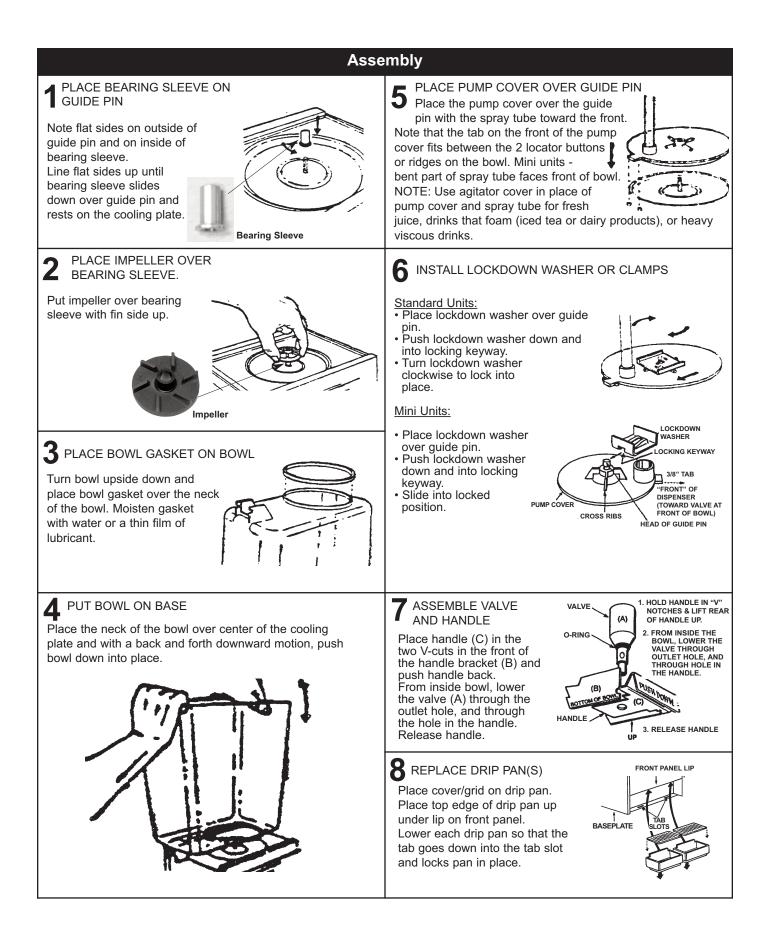


Figure A

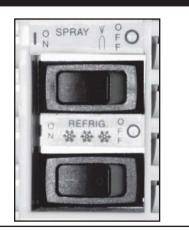


Assembly (cont.)

FILL BOWL(S) WITH PRODUCT and place lid(s) on bowl(s). Turn spray switch on first then refrigeration.

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IMPORTANT: NEVER RUN REFRIGERATION UNLESS SPRAY OR AGITATE IS ON.



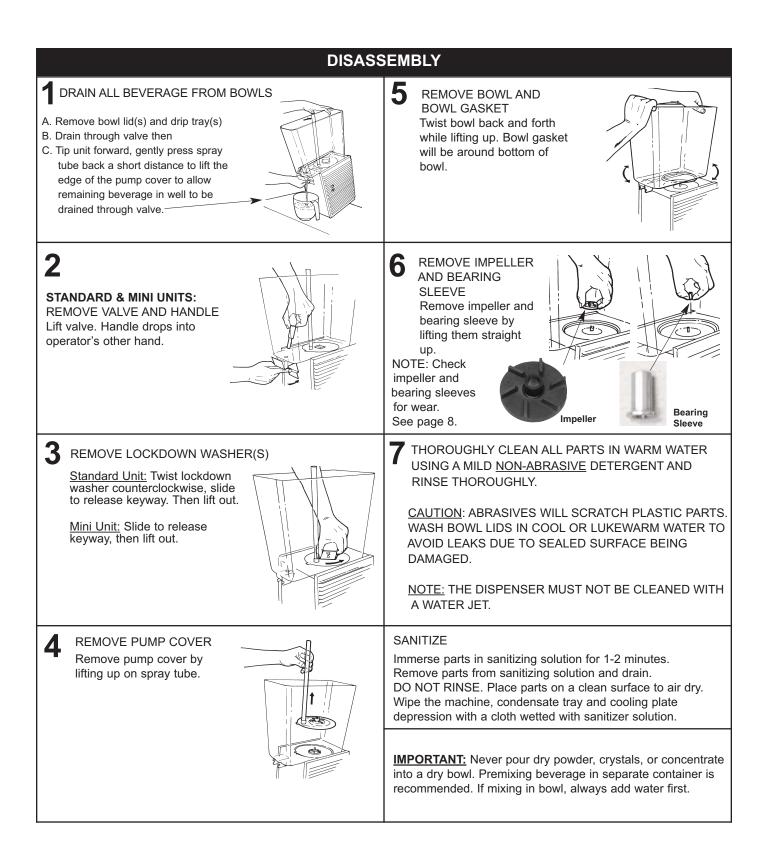
Product Preparation			
 BEFORE PREPARING PRODUCT: a) Wash hands thoroughly before handling dispenser or product. b) Use only clean mixing tools to prepare product. c) To ensure a safe, quality beverage use only reliable purified water or potable water source to prepare the product. Keep food or product preparation area, utensils, equipment, and surroundings clean. 	3 POUR CONCENTRATE INTO DISPENSER then add remaining water per product label.		
2 PREPARE PRODUCT CONCENTRATE by mixing powder with water using a wire whisk until powder is completely dissolved.	 REPLACE LID ON BOWL and turn ON main power switch. NOTE: This machine cools beverages to 41°F - 33.8°F (1°C - 5°C). 		

Maintenance

If the supply cord is damaged, it must be replaced by the manufacturer or a qualified service technician in order to avoid hazard.

If freezing occurs, the dispenser's power should be turned off.

This dispenser is suitable for liquid juice concentrate and powdered beverages.



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ROUTINE MAINTENANCE: For all Models

Cleaning Your Dispenser

To optimize performance or when using dairy products, clean unit daily.

Regular cleaning of bowl components will result in maximum pumping efficiency, proper seating and sealing, and prevention of leaks at the valve O-Ring and bowl gasket by removing dried-on beverage solids and pulp from moving sealed parts.

1. Wash all bowl components regularly. Follow all local health codes.

* Refer to Disassembly, Cleaning, and Assembly instructions on pages 4-6.

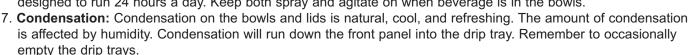
Sanitizing Your Dispenser

* Refer to Disassembly and Assembly instructions on pages 4-6.

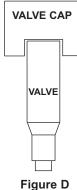
- 1. In the bowl, mix one gallon of Oxford Chemical's Disinfectant/Sanitizer Formula C or its equivalent.
- 2. Turn on spray motor(s) and allow sanitizer to spray around inside of bowl for a period of time as recommended by the sanitizer manufacturer. Formula C is satisfactory for this purpose when mixed in a solution of 1 liquid ounce of cleaner to 4 gallons of water. Run spray motor(s) for 60 seconds. In areas with extreme hard water, consult the local health authority.
- 3. Drain sanitizer **completely** and **thoroughly** during each step of the cleaning process (wash, rinse, and sanitize). Refer to tips on draining in Disassembly Guide on page 6.

HELPFUL HINTS

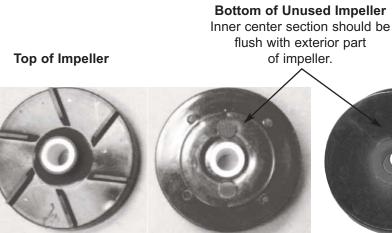
- 1. **Noisy Impeller:** Do not run impeller dry. The impeller will make a chattering sound in an empty bowl. Remove the impeller and run a small amount of water in the bowl.
- 2. Valve and O-Ring: On the first installation, if there is an after-drip, place your hand on the valve and with a slight downward pressure turn it slightly. This will help seat the o-ring so that it is properly aligned with the valve seat. If an o-ring becomes cut or worn it should be replaced. If you are pumping a product which has excessive pulp, a separate valve weight may be purchased to add extra weight so the o-ring will press down against the pulp and guarantee a positive shut-off.
- 3. **Valve Cap Use:** The Valve Cap (Part # 2039) insures that a tight valve seal will occur with products containing heavy pulp. The Valve Cap can be installed by placing it on top of the Valve after the Valve has been assembled into the bowl. See Figure D.
- 4. **High Water Marks on Bowl:** When you agitate, you may get "high water marks" as the beverage level drops. Keep the bowl as full as possible.
- 5. **Spray or Agitate?:** Most beverages can be sprayed. It is best not to spray iced tea, iced coffee, natural juices, or beverages that foam (whipped drinks). A special agitator plate (included) is used in place of a pump cover and spray tube to promote circulation.
- Proper Cooling: Always keep spray switch on when refrigeration switch is on. A unit <u>must</u> spray or agitate to cool. Failure to do this will cause impeller to lock-up. The dispenser is designed to run 24 hours a day. Keep both spray and agitate on when beverage is in the bowls.



8. **Single Bowl Operation:** If you find it necessary to run your dispenser with only one bowl containing beverage, put one half (1/2) cup of water in the unused cooling plate depression(s) for best one-bowl operation and efficiency.



PREVENTATIVE MAINTENANCE



Bottom of Worn Impeller Replace when worn. Yellow or white area no longer flush but indented.





- 1) Wash all bowl components regularly.
- Wash impeller and bearing sleeve individually and check for wear.
 - a) Check for wear on bearing sleeve (flange should be 1.77mm thick thickness of penny or quarter). (Figure F)
 - b) Check for wear on impeller (inner white center section should be flush with colored part of impeller). (Figure E)
 - c) If bearing sleeve or impeller do not spin freely or are wornreplace them. (Figure I)
 - d) Worn parts can cause personal injury, impair cooling and can damage machine. (Figure G & H)
- 3) Check valve o-rings and bowl gaskets for wear or damage replace every 6 months or as needed.
- 4) Every 6 months or more often if needed: unplug unit, remove panels, clean condenser and interior. (Remove dust and lint from fins with a soft brush and vacuum.)
- 5) For further information, visit www.gmcw.com or call +1-502-425-4776.

Part #s for Preventative Maintenance		
Description	Part #	
Bearing Sleeve (all units except D112)	3220	
Large Blue Impeller (D & WD model)	1161	
Small Red Impeller (E model)	1008	
Universal Impeller (all models)	3587	
Valve O-ring	1012	
Bowl Gasket - for D, WD models 5 gallon (or 3 gallon) bowl	1013	
Bowl Gasket for E model and/or 9 liter bowl	2010	
Bowl Gasket for 12 gallon SuperBowls (D112)	1150	
Bearing Sleeve for 12 gallon Super Bowl (D112)	1983	



New bearing sleeve

flange (approx. 1.77mm - thickness of penny or quarter)



Figure H

Worn bearing sleeve (replace when worn to approx. 1mm or 1/2 thickness of penny or quarter).

Figure G worn flange

Bearing sleeve with flange missing is extremely worn. Discard immediately.

CAUTION: Handle with care. Sharp edges may cause personal injury or damage to machine.



Bearing sleeve and impeller should spin freely when held like this. If parts do not spin freely or are worn, unit will not cool properly and worn parts may damage machine.



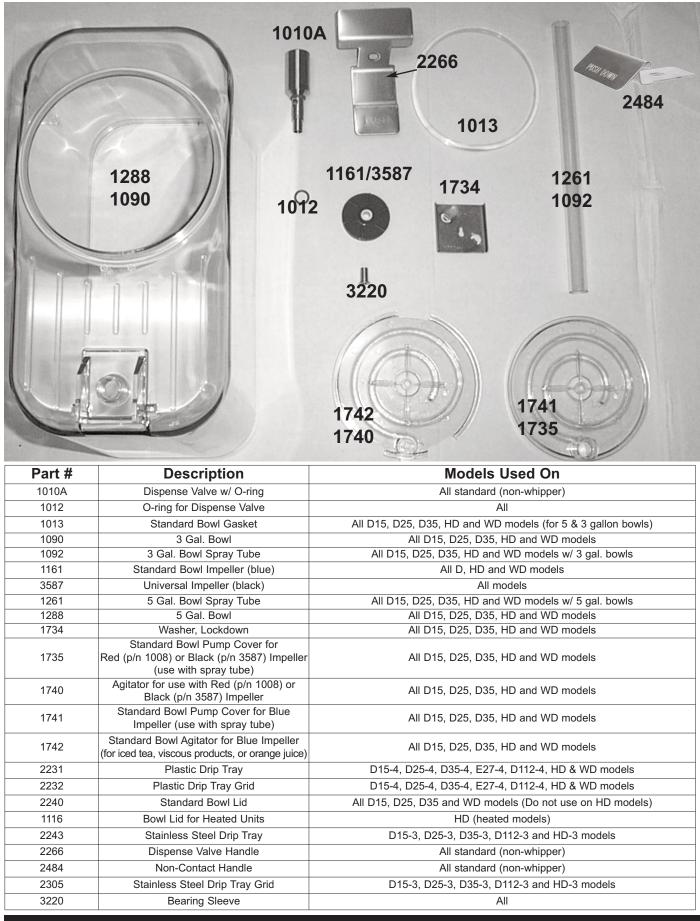
Universal Impeller (Part # 3587)

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
No or partial Refrigeration: Compressor Runs NOTE: Unit must spray or agitate properly to obtain cooling	 Condenser clogged with dust or lint Unit not properly spraying or agitating Faulty fan motor Loss of refrigerant 	 Unplug unit, remove panels and clean out all lint and dust from condenser and inside machine. Use vacuum cleaner or bottle brush. See "Problem" - "No Spray or Agitation" Replace motor (call for service) Call for service
No Refrigeration: Compressor Does Not Run		Call for service
No Spray or Agitation:		
Spray Motor Runs	 Impeller does not spin; check for worn bearing sleeve and/or impeller (see page 5) 	 Replace sleeve and/or impeller if worn. If using a dairy based product, make sure you are using the correct impeller (blue or red with "M" on bottom or a black Universal Impeller) If not worn, clean impeller and bearing sleeve. Impeller must spin freely on bearing sleeve to spray and refrigerate properly.
Chattering Impeller	 Impeller chatters and/or does not spin properly 	 Raise drive magnet higher on motor shaft, but not high enough to rub. (Call for service or see service manual)
No Spray:		
Spray Motor Does Not Run		Call for service
Leaky Bowl	Gasket improperly installedWorn or nicked bowl gasket	 Reinstall gasket. Check directions for bowl assembly. Replace gasket
Leaky Valve	 Foreign particles on valve, o-ring or valve stem Nicked or cut o-ring O-ring twisted so will not seat uniformly 	 Clean valve and o-ring Replace o-ring Remove and remount
Noisy Unit	 Worn bearings in either fan motor or spray motor(s) Bent fan blade 	 Replace motor(s) (call for service) Unplug unit and re-bend fan blade to correct alignment

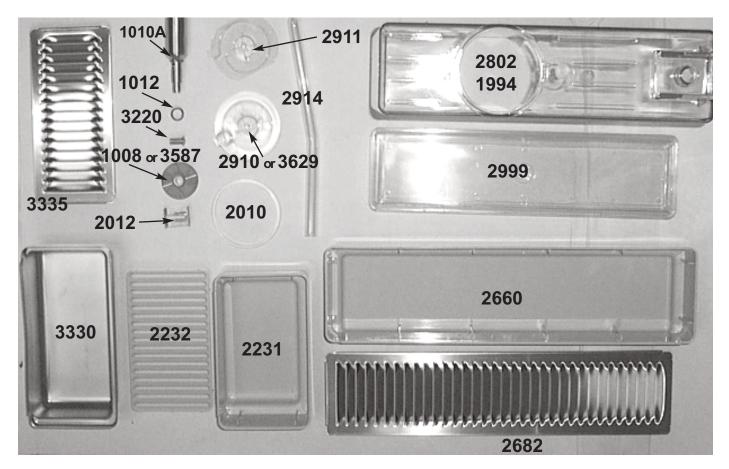
If you still need help, call an authorized service center in your area or call GMCW's Technical Service Department. You can reach Technical Service at (800) 695-4500 (USA & Canada only) or 1-502-425-4776 Monday-Friday, 8:00 AM-6:00 PM Eastern Standard Time. Please have the model and serial number ready so that accurate information can be given. Prior authorization must be obtained from GMCW's Technical Service Department for all warranty claims.

STANDARD BOWL ASSEMBLY PARTS



Crathco® Beverage Dispensers

MINI BOWL ASSEMBLY PARTS



Part #	Description	
1008	Mini Bowl Impeller (red)	
1010A	Dispense Valve w/ O-ring	
1012	Dispense Valve O-ring	
1994	7 Liter Bowl	
2010	Mini Bowl Gasket	
2012	Mini Bowl Lock Washer	
2231	Mini Twin Plastic Drip Tray	
2232	Mini Twin Plastic Drip Tray Grid	
2266	Dispense Valve Handle (pictured w/ std bowl assembly photo)	
2484	Non-Contact Handle (pictured w/ std bowl assembly photo)	
2660	Mini Quad Drip Tray (Plastic)	
2682	Mini Quad Drip Tray Grid	
2802	Standard 9 Liter Bowl	
2910	Mini Bowl Pump Cover (use w/ spray tube) use w/ red impeller (p/n 1008)	
2911	Mini Bowl Agitator (use with iced tea, orange juice, and viscous products)	
2914	9 Ltr. Mini Bowl Spray Tube	
2999	Cover for 9L Bowl	
3220	Bearing Sleeve	
3330	Stainless Steel Drip Tray, E27, E47	
3335	Stainless Steel Drip Tray Grid, E27, E47	
3587	Universal Impeller (black)	
3629	Mini Bowl Pump Cover - use with black impeller (p/n 3587)	

MCX Mag-Drive[™] Impeller by Crathco® Purely the Best

Features:

Proprietary one-piece design using advanced, magnetic compound material...

- Smooth surfaces assure complete sanitizing
- High performance nylon bearing harder material for longer life
- More powerful and efficient action
- One size fits all use in all types of beverages and all models
- Common parts for lower inventory
- Crathco Bubblers[™] -
 - * Built simple
 - * Built stronger
 - * Built to last

Specifications and Use:

- Part #: 3587
- Recommended for use in all models

Bowl size	Recommended Pump Cover (when spraying)	Recommended Agitator (when not spraying)
9L - 2.4 gal. (or 7L)	part # 2910	part # 2911
18L - 5 gal. (or 3 gal.)	part # 1735 (1741 may also be used on 60 Hz units)	part # 1740 (1742 may also be used on 60 Hz units)



