



Crathco®

Operator Manual

Simplicity™ Bubbler Crathco® Cold Beverage Dispensers



Model CS-2E-16



Model CS-3L-16



Model CS-2D-16



(cULus certification applies only to United States and Canada models.)

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Need Parts for your CRATHCO Simplicity Beverage Dispenser?
CLICK HERE to view and buy CRATHCO parts.

Safety Information

Important Safety Information



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

For your safety and the safety of others, read all warnings and the operator manual before installing or using the product.

DANGER: This term warns the user of imminent hazard that will result in serious injury or death.

WARNING: This term refers to a potential hazard or unsafe practice, which could result in serious injury or death.

CAUTION: This term refers to a potential hazard or unsafe practice, which could result in minor or moderate injury.

NOTICE: This term refers to information that needs special attention or must be fully understood.

WARNING/ AVERTISSEMENT/ ADVERTENCIA

The appliance is not intended for outdoor use.

Do not clean with a water jet or use in an area where a water jet may be used.

Cleaning and maintenance shall be made only by properly trained persons with supervision.

CAUTION/ ATTENTION/ ATENCIÓN

Lifting hazard. Single person lift could cause injury. Use assistance when moving or lifting.

Sharp edges can cause personal injury. Handle with care.

The appliance is not to be used by persons (including children 8 years and above) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. Be sure to provide supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children must be supervised to ensure they do not play with the appliance.

For safe and proper operation the appliance has to be placed in a stable horizontal position.

The appliance is only to be installed in locations where it can be overseen by trained personnel.

NOTICE/ AVIS/ AVISO

Observe machine voltage configuration. Do not apply improper voltage to machine or damage to machine will occur.


Do not use extension cord.

Do not operate the appliance below 1.7°C (35°F) or above 40°C (104°F).


Clean and sanitize unit before first use.

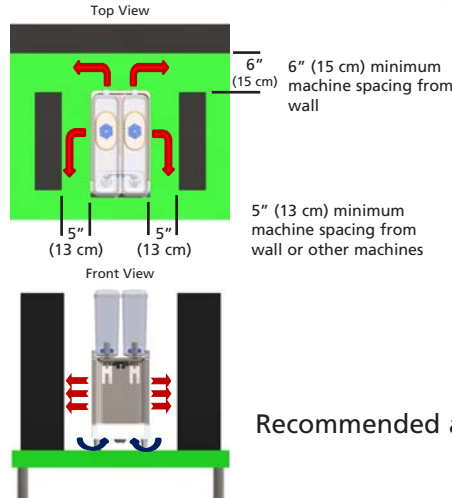
Installation and Set-Up


1. Place machine on counter with proper spacing.
 - The appliance must be placed in a horizontal position.
 - The appliance is suitable for indoor use only.

- a.  Place dispenser on stable counter strong enough to support its weight.



- b.  Allow 5" (13 cm) on sides and 6" (15 cm) on back for proper ventilation.



- c.  Position machine away from heat emitting objects (i.e. ovens, grills, refrigeration equipment).




Recommended ambient temperature 75° F (25° C).

2. Install power cord.


- a. Note proper voltage.




 Observe machine voltage configuration. Do not apply improper voltage to machine or damage to machine will occur.

- b. Plug cord into power outlet.



-  Do not use extension cord.

 Failure to follow proper installation guidelines can damage equipment and void warranty.

CAUTION/ ATTENTION/ ATENCIÓN

1. This appliance is not intended for the use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by person responsible for their safety.
2. Children should be supervised to ensure that they do not play with the appliance.
3. This appliance is only to be installed in locations where it can be overseen by trained personnel.












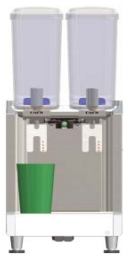

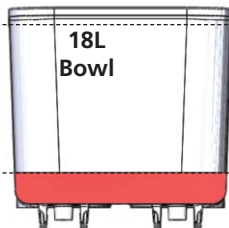
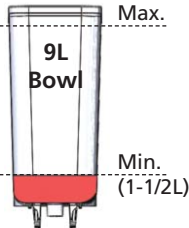
Installation - Agitator Function (Model CS-XX-YY)

<p>1.</p>  <p>Install mixing impeller.</p>	<p>2.</p>  <p>Install bowl gasket.</p>	<div style="border: 1px solid black; background-color: yellow; padding: 5px;"> <p>⚠ CAUTION/ ATENCIÓN/ ATTENTION Sharp edges can cause personal injury. Handle with care.</p> </div> <p>Replace axle if flange thickness is less than 0.75mm (0.03 inch) thick.</p>  <p>Replace impeller if bearing surface is worn more than 0.5mm (0.02 inch) thick.</p>  <p>Inspect for wear.</p>
<p>3.</p>  <p>a.  b.</p> <p>Place o-ring on dispense valve (check if nicked or twisted). Place in bowl.</p>	<p>4.</p>  <p>Install assembled bowl. NOTICE/ AVIS/ AVISO: Machine must be OFF.</p>  <p>Insert bowl lip underneath of lock position on the back of top tray.</p>  <p>Then, press down on the front of the bowl until you hear a click indicating the bowl is locked properly in place.</p>	
<p>5.</p>  <p>Install handle.</p>	<p>6.</p>  <p>Flip out support bracket for drip tray.</p>	<p>7.</p>  <p>Place drip tray cover on drip tray.</p>  <p>Install drip tray.</p>
<p>8.</p>  <p>a.  b. </p> <p>Mix product in clean container. Fill bowl with product.</p>	<p>9.</p>  <p>Install bowl cover.</p>	<p>10.</p>   <p>Turn power "on".</p>

Installation - Spray Function (Model CS-XX-YY-S)

<p>1.</p>  <p>Install mixing impeller.</p>	<p>2.</p>  <p>Install bowl gasket.</p>	<div style="background-color: yellow; border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>⚠ CAUTION/ ATENCIÓN/ ATTENTION Sharp edges can cause personal injury. Handle with care.</p> </div> <p>Replace axle if flange thickness is less than 0.75mm (0.03 inch) thick.</p>  <p>Inspect for wear.</p> <p>Replace impeller if bearing surface is worn more than 0.5mm (0.02 inch).</p> 	
<p>3.</p>  <p>Install pump cover.</p>	<p>4.</p>  <p>a. Place o-ring on dispense valve (check if nicked or twisted). Place in bowl.</p> <p>b.</p>	<p>5.</p>  <p>Insert bowl lip underneath of lock position on the back of top tray.</p>  <p>Install assembled bowl.</p> <div style="background-color: blue; color: white; padding: 5px; margin: 5px 0;"> <p>NOTICE/ AVIS/ AVISO:</p> </div> <p>Machine must be OFF.</p>  <p>Then, press down on the front of the bowl until you hear a click indicating the bowl is locked properly in place.</p>	
<p>6.</p>  <p>Install spray tube to fit with Pump cover.</p>	<p>7.</p>  <p>Install handle.</p>	<p>8.</p>  <p>Flip out support bracket for drip tray.</p>	<p>9.</p>  <p>Install drip tray and cover.</p>
<p>10.</p>  <p>a. Mix product in clean container. Fill bowl with product.</p> <p>b.</p>	<p>11.</p>  <p>Install bowl cover.</p>	<p>12.</p>  <p>Turn power "on".</p> 	

Product Preparation & Use

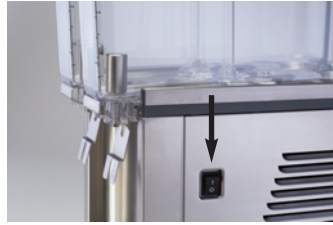
<p>1.  Wash hands thoroughly when handling dispenser and product.</p> 	<p>2. Mixing tools.  Wire whisk</p>  Pail  Measuring pitcher
<p>3.</p>  <p>To ensure safe and quality beverage, use only reliable, purified, or potable water source to prepare the product.</p>	<p>4.</p>   <p>Prepare concentrate by mixing powder with water using wire whisk until completely dissolved. Follow recommended dilution per product label.</p>
<p>5.</p>  <p>Pour concentrate into dispenser and then add remaining water per product label.</p>	<p>6.</p>   <p>Install lid. Turn on main power switch.</p>
<p>7.</p>   <p>Correct way to dispense. Incorrect way to dispense.</p>	<p>8.</p>   <p>Always observe minimum 3 liter (18L bowl) or 1-1/2 liter (9L bowl) fill level to prevent foaming of product at low level.</p>
<p>9. PRODUCT PREPARATION AND USE</p> <ol style="list-style-type: none"> 1. Prepare concentrate by mixing powder with water using wire whisk until completely dissolved. Follow recommended dilution per product label. 2. Pour concentrate into dispenser and then add remaining water per product label. 3. Install lid and turn on main power switch. 4. 25~30° C (77~86° F) ambient temperature is suitable for the operation. 5. This machine maintains beverage temperature of 1~5° C (34~41° F). 6. The dispenser is not for dispensing potentially hazardous beverage. 	

Daily Cleaning Machine Disassembly

DAILY						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



1.



Turn power "off".

2.



Remove drip tray and cover.

3.



Rotate support brackets for drip tray.

4.



Drain bowl.

5.

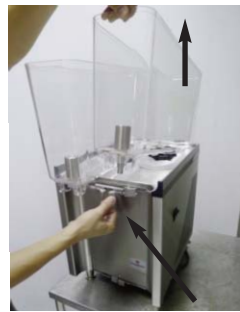


Remove handle.

6.

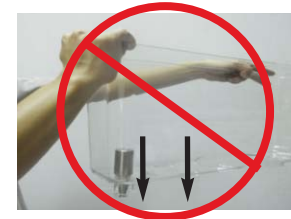


Remove bowl cover.



Press release latch on front of the machine before removing the bowl.

NOTICE/ AVIS/ AVISO: FRAGILE!



Do not drop.

7.



Remove valve with seal.

8.



Remove bowl gasket.

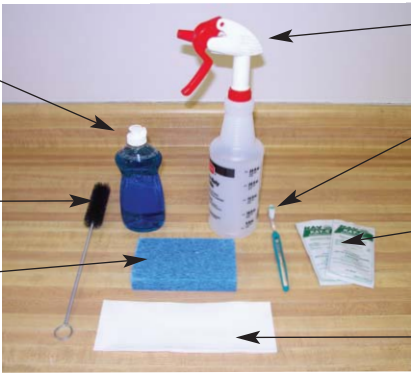




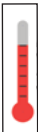
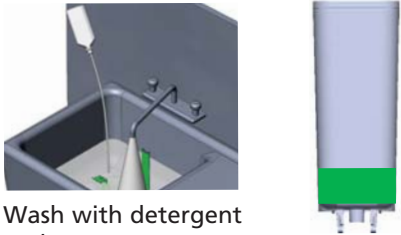
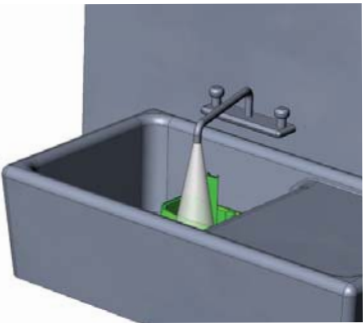





9.



Remove mixing impeller.

Daily Cleaning (cont.)

Cleaning Procedures

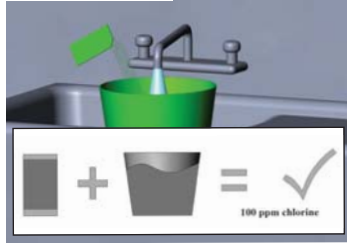
<p>Cleaning Materials & Tools</p> <p>liquid detergent (do not use laundry bar/ powdered detergents)</p> <p>long brush</p> <p>foam/sponge (do not use abrasive)</p>  <p>sprayer</p> <p>toothbrush</p> <p>sanitizer (chlorine based)</p> <p>paper towels</p>	<p>1.</p>  <p>Take parts to sink.</p>	
<p>2.</p>  <p>Units with spray agitators: Remove pump cover and spray tube.</p>	<p>3. a.</p>  <p>b.</p>  <p>Lift out dispense valve and remove o-ring.</p>	<p>4.</p> <p>50°C (122°F) Maximum water temperature for cleaning.</p>  <p>75mm (3 inch) Maximum water level for cleaning</p>  <p>Wash with detergent and warm water.</p>
<p>5.</p>  <p>Rinse with clean water.</p>	<p>6.</p>   <p>Wipe evaporator plate with detergent and warm water.</p>	<p>7.</p>   <p>Clean front panel, exterior panels and release latch.</p>
<p>8.</p>  <p>Clean counter and bottom part of dispenser with paper towel.</p>	<p>9. THOROUGHLY CLEAN ALL PARTS IN WARM WATER USING A MILD NON-ABRASIVE DETERGENT AND RINSE THOROUGHLY.</p> <p>NOTICE/ AVIS/ AVISO: ABRASIVES WILL SCRATCH PLASTIC PARTS. WASH BOWL LIDS IN COOL OR LUKEWARM WATER TO AVOID LEAKS DUE TO SEALED SURFACE BEING DAMAGED.</p> <p>NOTICE/ AVIS/ AVISO: The appliance is not suitable for installation in an area where a water jet could be used. The appliance must not be cleaned by water jet.</p>	

Daily Cleaning (cont.)

Daily Sanitizing

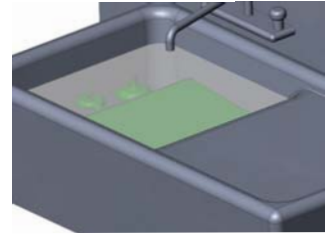
DAILY						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

1.



Prepare 8L of chlorine-based sanitizing solution (to 100 ppm) per package instructions.

2.



Submerge parts in solution for 15 minutes.

3.



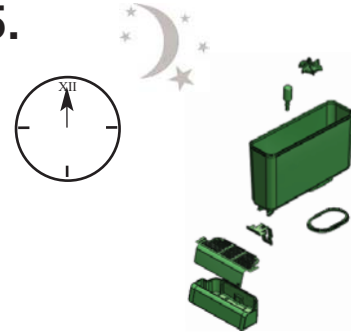
Spray inside of bowl with sanitizer.

4.



Spray inside of lid with sanitizer.

5.

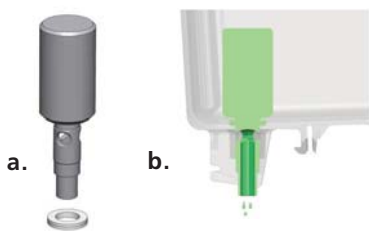


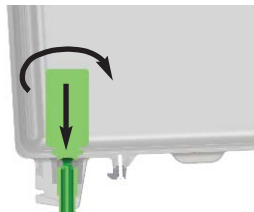



Air dry parts overnight.

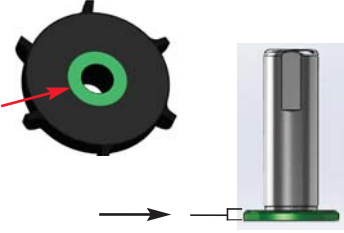


Need Parts for your CRATHCO Simplicity Beverage Dispenser?
CLICK HERE to view and buy CRATHCO parts.

Troubleshooting





Leaking

<p>1.</p>  <p>a. O-ring nicked, deformed, or twisted? b. Foreign particles on bowl valve seat?</p>	<p>2.</p>  <p>Cracked bowl? Replace bowl.</p>	<p>3.</p>  <p>Drain tray overflow? Empty tray.</p>
<p>4.</p>  <p>Valve securely in place? Push and twist to seat.</p>	<p>5.</p>  <p>Gasket secured in place? Push to seat.</p>	






No product agitation

<p>1.</p> <p>Replace impeller if bearing surface is worn.</p>  <p>Replace pump axle if flange thickness is less than .75mm (0.03 inch) thick.</p> <p>Impeller and/or axle worn? Replace worn parts. See routine maintenance.</p>	<p>2.</p>  <p>Pump motor magnet needs adjustment? ☎ Call for service.</p>
<p>3.</p>  <p>Impeller installed correctly?</p>	

Troubleshooting (cont.)

No refrigeration	
<p>1. </p> <p>Plugged in to wall outlet?</p>	<p>2. </p> <p>Power switch on?</p>
<p>3. Compressor does not operate; fan does? ☎ Call for service. ☎ 1.502.425.4776</p> 	<p>4. Faulty thermostat? Machine will not operate. ☎ Call for service. ☎ 1.502.425.4776</p> 

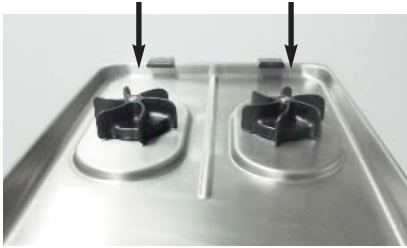
Need Parts for your CRATHCO Simplicity Beverage Dispenser?
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Poor refrigeration	
<p>1. Dirty condenser filter and condenser? Clean condenser or ☎ call for service.</p>	
<p>2. No product agitation? See previous page.</p> 	<p>3. Impeller does not spin. Faulty pump motor? ☎ Call for service. ☎ 1.502.425.4776</p> 
<p>4. Compressor does not operate; fan does not operate. Faulty fan motor? ☎ Call for service. ☎ 1.502.425.4776</p> 	<p>5. Faulty thermostat or improper setting? ☎ Call for service. ☎ 1.502.425.4776</p> 

Troubleshooting (cont.)

Noisy machine

1.



Impeller installed correctly in bowl?

2.



Bowl or pump installed while unit in "on" position?
Turn unit off. Reinstall parts.

3. Faulty pump motor bearings.
☎ Call for service.

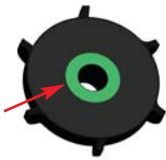


Chattering impeller? Ensure correct drive magnet height or
☎ Call for service.



4.

Replace impeller if bearing surface is worn.



Replace pump axle if flange thickness is less than .75mm (0.03 inch) thick.

Impeller and/or axle worn? Replace worn parts.
See routine maintenance.

5.



Broken impeller? Replace it.

6.

Fan blade bent?
Unplug unit, remove side panel, inspect fan blade.



7. MAINTENANCE

1. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified persons in order to avoid a hazard.
2. When freezing occurs, the appliance must be powered off.
3. Access to the service area is restricted to persons having knowledge and practical experience of the appliance, in particular as far as safety and hygiene are concerned.

Spacer Bracket Installation

Installed Standoff Bracket Overview

Recommended Spacing:

Place Bubblers side-by-side in available space then center them in total available space.



Rear View

5 inch rear distance



Left Rear Corner View

1 inch side spacing allows 2 Bubblers to sit side-by-side to allow a total 2 inch clearance



Left Side View

Bracket extends 3.5 inches down each side



Left Rear Corner View

Tools needed:

Phillips head screw driver
Flathead screw driver

1.



Rotate unit so that there is easy access to each side and rear of unit. (Recommended attaching spacer during cleaning of unit during closing or during opening). Total attachment time is 15 minutes.

2.



Orientation of bracket is with all 4 screw tabs against the base, as shown.

3.



Remove protective film from bracket and discard film.

Spacer Bracket Installation (continued)

4.



Orient bracket to base as before, using a Phillips head screwdriver, remove rear side panel screw from either left or right side panel. (Remove only the rear screw so that the front screw holds side panel during installation.)

5.



Using a flat head screwdriver, remove rear thumb screw on the same corner as the side panel screw that was removed. (Attach bracket at one corner at a time so that the other corner screw holds side and rear panels.)

6.



Side Panel View



Rear Panel View

Lift panel into position with screw tabs aligned as indicated in the images so that the tabs are on the outside of the existing side and rear panels.

7.



Drive the side panel screw first and then drive the rear panel thumb screw to attach the bracket at one corner.

8.



Repeat the same process for the other rear corner of the product.

9.

Place the two units back into location, side spacer's legs should be contacting the other Bubbler and then evenly space the two units from the units on either side.

If you still need help, call Grindmaster-Cecilware Technical Service Department, (502) 425-4776 or (800) 695-4500 (USA & Canada only) (Monday through Friday 8 AM - 6 PM EST). Please have the model and serial number ready so that accurate information can be given.

Prior authorization must be obtained from Grindmaster-Cecilware for all warranty claims.

Grindmaster-Cecilware provides the industry's BEST warranty. Visit our website at GMCW.com for warranty terms and conditions.