



# INSTALLATION & OPERATION MANUAL

## C24EA SERIES ELECTRIC CONVECTION STEAMERS

C24EA6      ML-136058  
C24EA10    ML-136059



For additional information on Vulcan-Hart or to locate an authorized parts and service provider in your area, visit our website at [www.vulcanhart.com](http://www.vulcanhart.com).

## **IMPORTANT FOR YOUR SAFETY**

**THIS MANUAL HAS BEEN PREPARED FOR PERSONNEL QUALIFIED TO INSTALL THIS EQUIPMENT, WHO SHOULD PERFORM THE INITIAL FIELD START-UP AND ADJUSTMENTS OF THE EQUIPMENT COVERED BY THIS MANUAL.**

### **WARNING**

**IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.**

**IN THE EVENT OF A POWER FAILURE, DO NOT ATTEMPT TO OPERATE THIS DEVICE.**

# INTRODUCTION

## GENERAL

Vulcan convection steamers are produced with quality workmanship and material. Proper installation, usage and maintenance will result in many years of satisfactory performance. It is suggested that you thoroughly read this entire manual and carefully follow all of the instructions provided.

The C24EA6 and C24EA10 convection steamers are dual compartment, electric, pressureless steam cookers with an internal electric steam generator that maintains water temperature at approximately 195° F. At 208V and 480V, the C24EA6 is rated at 17.2kW, and the C24EA10 is rated at 25.6kW. At 240V, the C24EA6 is rated at 19.7kW, and the C24EA10 is rated at 26.4kW.

Model C24EA6 can accommodate three 2 1/2" deep (6.4 cm) steam pans per compartment. Model C24EA10 can accommodate five 2 1/2" deep (6.4 cm) steam pans per compartment. The C24EA6 and C24EA10 electric convection steamers are designed for cooking vegetables, eggs and other foods, in commercial kitchens. Each compartment has a 0-60 minute timer, as well as a constant steam feature. The buzzer requires manual shutoff. The steamer is equipped with a cabinet base with flanged feet for floor mounting.

## INSTALLATION

Before installing, verify that the electrical supply agrees with the specifications on the data plate located on the front of the machine. If the supply and equipment requirements do not agree, do not proceed with the installation. Contact your dealer or Vulcan-Hart immediately.

This unit is shipped pre-wired for 208/60/3 or 480/60/3. 240V and single-phase operation require changes to the heater connection 240/60/3, 240/60/1 and 208/60/1. This unit will operate at 60Hz or 50Hz. Conversions must be made by a Vulcan Hart authorized service technician.

## UNPACKING

This steamer was inspected before leaving the factory. The transportation company assumes

full responsibility for safe delivery upon acceptance of the shipment.

Immediately after unpacking, check for possible shipping damage. If steamer damage is found, save the packaging material and contact the carrier within 15 days of delivery.

## INSTALLATION CODES AND STANDARDS

In the United States of America:

1. State and local Codes
2. National Fuel Gas Code, ANSI/z223.1/NFPA #54(latest edition). Copies may be obtained from The American Gas Association, Accredited Standards Committee Z223@ 400 N. Capital St. NW, Washington D.C. 2001 or the Secretary Standards Council, NFPA, 1 Batterymarch Park, Quincy MA 02169-7471.

**Note:** In the Commonwealth of Massachusetts:

All gas appliances vented through a ventilation hood or exhaust system equipped with a damper or with a power means of exhaust shall comply with 248 CMR.

3. Vapor Removal from Cooking Equipment, NFPA#96 (latest edition).
4. Copies may be obtained from The National Fire Protection Association, 1 Batterymarch Park, Quincy MA 02169-7471.
5. National Electrical Code, ANSI/NFPA-70 (latest edition). Copies may be obtained from The National Fire Protection Association, 1 Batterymarch Park, Quincy MA 02169-7471.

In Canada, the steamer must be installed in accordance with:

1. Local codes.
2. Canadian Electrical Code (CSA C22.2 No.3, latest edition) available from the Canadian Standards Association, 5060 Spectrum Way, Mississauga, Ontario, Canada L4W 5N6.

## LOCATION

Allow space for plumbing and electrical connections. Minimum clearance is 6" (15.2 cm) on the back for proper air circulation. Allow adequate access for operating and servicing the steamer: 36" (91.4 cm) at the front of the steamer, 15" (38 cm) above the steamer and 18" (45.7 cm) on the right and left sides of the steamer.

## LEVELING AND ANCHORING

Position the steamer in its final installed location. Place a level on the horizontal area of the cabinet. Adjust the feet to level the steamer in both the left-to-right and front-to-rear directions.

Steamers should be elevated in the front just enough, about  $\frac{1}{16}$ " to  $\frac{1}{8}$ " (2 to 3 mm), to provide proper draining. Do this by rotating the adjustable feet in the proper direction 1 to  $1\frac{1}{2}$  turns after leveling. Check drainage in the steamer compartments by pouring a small amount of water in the compartment. All the water should drain.

The feet have holes in the flanges for anchor bolts.

## ELECTRICAL CONNECTION

**WARNING:** ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND / OR OTHER LOCAL ELECTRICAL CODES.



**WARNING:** DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

The wiring diagram is located inside the front panel.

### C24EA6 AND C24EA10 CURRENT DRAW

Model	Voltage	Total kW	3 Phase			Single Phase	125% of Maximum	Minimum Wire Size (75°C Cu Wire)
			L1	L2	L3			
C24EA6	208	16.9				81.25	101.56	3
	240	19.0				79.08	98.85	3
	208	16.9	46.29	48.16	46.29		60.20	6
	240	19.0	42.82	42.82	51.32		64.15	6
	480	17.2	20.33	21.41	20.33		26.76	10
C24EA10	208	25.2				121.15	151.44	1/0
	240	26.5				110.37	137.96	1/0
	208	25.2	69.12	71.61	69.12		89.51	3
	240	26.5	67.04	57.09	67.04		83.80	4
	480	25.6	30.31	31.75	30.31		39.69	8

## PLUMBING CONNECTIONS

**WARNING:** PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY AND PLUMBING CODES.

### Water Requirements

Proper water quality can improve the taste of the food prepared in the steamer, reduce liming in the steam generator and extend equipment life. Water conditions vary from one location to another. Ask your municipal water supplier for details about your local water supply prior to installation. Presence of sediment, silica, excess chlorides or other dissolved solids may lead to a recommendation for alternate form(s) of water treatment. Test the water with the test strip included with the steamer. Other factors affecting steam generation are iron content, amount of chloridation and dissolved gases.

### Water Treatment

A local water treatment specialist should be consulted before installation of steam generating equipment.

Supply Pressure	20 - 60 psig
Hardness*	No more than 3 grains
Silica	less than 13 ppm
Total Chlorine	less than 4.0 ppm
PH range	6.5 - 8
Undissolved Solids	less than 5 microns
*17.1 ppm = 1 grain of hardness	

If the water supply fails to meet these standards, it will be necessary to install a water conditioner on the generator water feed. The use of strainers or filters will not remove minerals from the water.

### Water Supply Connection

Connect the treated cold water supply line to the  $\frac{3}{4}$ " (19 mm) (male hose thread) inlet. Connect the untreated cold water supply line to the  $\frac{3}{4}$ " (19 mm) (male hose thread) inlet marked UNTREATED WATER.

A water filter system is recommended for the water supply line going to the treated water inlet. Follow the recommendations for use and installation instructions shipped with the water filter. If a water filter is not installed, the steam generator warranty may be limited.

A manual shutoff valve must be provided in a convenient location near the steamer.

### Filter System

If you decide to not install a scale-reducing filter system designed for steam equipment or use another manufacturer's system other than that recommended by Vulcan Hart, please use these guidelines.

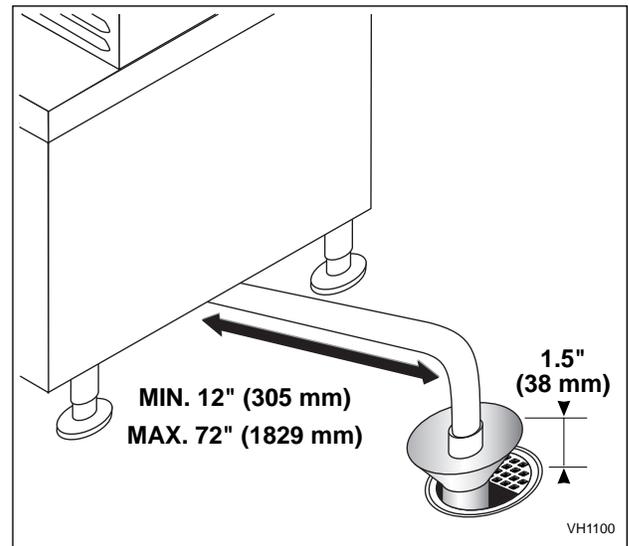
- If you are going to delime the unit with a deliming agent recommended for a pressure steam boiler and stainless steel generators, and you are on city or treated well water, you still must have a carbon block filter installed and maintained. Carbon block filters remove the chlorine and chloramine disinfectants from the water. Chlorine and chloramines will erode the boiler or steam generator and will result in a vessel failure, which is not covered under warranty.
- Water feed lines to the steamer must be flushed before final connection. Particles in the water could build up in the water and steam valves or clog tubing and components that maintain the water level and pressure in the boiler or steam generator. If the water supply is not free of sediment or is cloudy after several minutes of flushing, a sediment filter must be installed before use.

- If you have purchased a water filtration system from Vulcan Hart, please follow the instructions provided with the water filtration system. At the time of installation you must register your steamer at [www.vulcanhart.com/filterreg](http://www.vulcanhart.com/filterreg) or use the reply card supplied with your unit. You will need to register your steamer at each filter change to ensure your standard and extended warranty is maintained.

### Drain Connection

The 1½" NPT threaded fitting on the condenser box must be extended a minimum of 12" (305 mm) - maximum of 72" (1829 mm) away from steamer base, to an open air gap type drain (see Figure 1). Do not reduce the 1½" NPT drain piping throughout its length. Provide a suitable floor sink with a minimum depth of 12" (305 mm). The floor sink is NOT to be directly under the steamer and should be at a distance so that steam vapors will not enter the steamer from underneath. The drain should slope down away from the steamer ¼" for every foot of drain pipe length. The drain pipe should be either iron or copper. DO NOT use PVC pipe; PVC pipe may lose its rigidity or glue may fail. A 1½" air gap is required for the drain.

**CAUTION: In order to avoid any back pressure in the steamer, do not make a solid connection to any drain. FAILURE TO DO SO CAN DAMAGE THE STEAMER AND VOIDS THE WARRANTY.**



**Figure 1**

Temperatures in the drain can briefly reach as high as 212°F (100°C). Local codes may require that the temperature of drain water be no greater than 140°F (60°C). At the end of the day, when purging the generator, some provision for lowering the water temperature must be provided by the user or installer to meet this code requirement.

### VENT HOOD

Local codes may require the steamer to be located under an exhaust hood. Information on the construction and installation of ventilating hoods may be obtained from *Vapor Removal from Cooking Equipment*, NFPA standard No. 96 (latest edition).

## STARTUP

**WARNING:** THE STEAMER AND ITS PARTS ARE HOT. USE CARE WHEN OPERATING, CLEANING OR SERVICING THE STEAMER. THE COOKING COMPARTMENT CONTAINS LIVE STEAM. STAY CLEAR WHILE OPENING DOOR.

Once the steamer is installed and all mechanical connections have been made, thoroughly test the steamer before operation.

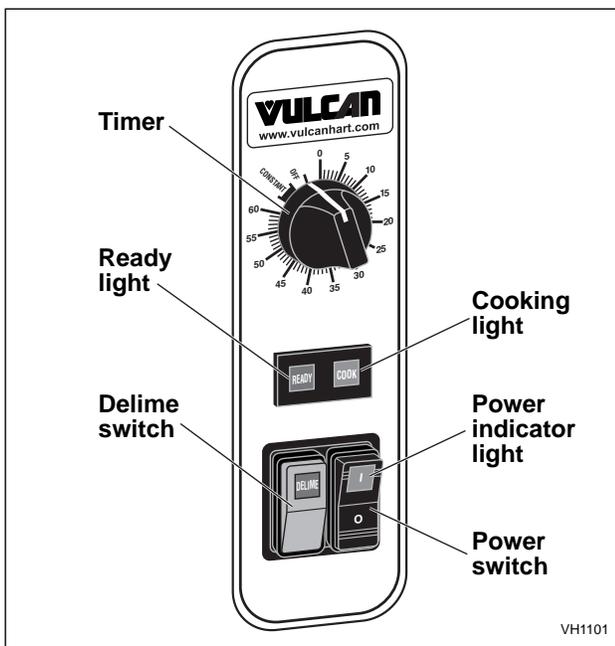
1. Check that proper water, drain, and electrical connections have been made.
2. Press the power switch to the on position. After approximately 15 minutes, the ready light should come on, indicating that the generator has reached operating pressure.
3. Open the door, set the timer to 5 minutes, and observe that no steam is entering the compartment, and that the ready light is on and the cooking light is off.
4. Close the compartment door. The cooking and ready lights should now be lit, and steam should be heard entering the compartment.
5. Check the drain line to be sure that water from the cold water condensate valve is flowing through the drain line.
6. Open the compartment door and observe that steam supply to the compartment stops, and that the cooking light turns off.
7. Close the compartment door and let the cooking cycle finish. When the timer returns to the 0 position, a buzzer will sound and the cooking light will turn off, signaling the end of the cooking cycle. To silence the buzzer, turn the timer dial to the OFF position.
8. Complete steps 3-7 for each cooking compartment.
9. Press the power switch to the off position. Leave the compartment doors slightly open to allow the inside to dry out.

## OPERATION

**WARNING:** THE STEAMER AND ITS PARTS ARE HOT. USE CARE WHEN OPERATING, CLEANING OR SERVICING THE STEAMER. THE COOKING COMPARTMENT CONTAINS LIVE STEAM. STAY CLEAR WHILE OPENING DOOR.

### CONTROLS AND INDICATORS

The upper section of the steamer consists of two cooking compartments. Each compartment functions independently with its own controls (see Figure 2), and is a separate, sealed steam chamber during the cooking operation.



**Figure 2. Controls and Indicators (Bottom Compartment Only)**

**Note:** Upper Compartment Control Panel does not contain a Power Switch, Power Indicator Light or Delime Switch.

#### Timer

Used to set desired cooking cycle time. Timer range is 0-60 minutes or constant steam. Turn to the OFF position to silence the buzzer.

#### READY Light (Green)

When lit, indicates steamer is ready for the cooking cycle.

#### COOK Light (Red)

When lit, indicates steamer is in the cooking phase.

#### Power On/Off Switch (Bottom Compartment Only)

Power on/off switch with indicator light.

#### DELIME Switch (Bottom Compartment Only)

Automatically activates delimiting process.

### PREHEATING

Preheat the cooking cavity when the steamer is first used for the day or whenever the compartment is cold. Keep the door closed during the preheat cycle.

- Turn the power switch to ON, and set the timer to 10 minutes to preheat the compartment.
- When the buzzer sounds, turn the timer to the OFF position. The steamer is ready to cook.

### STEAMING

Each steaming compartment has its own controls.

With the green READY light lit and the compartments preheated, the steamer is ready for use.

1. Open the compartment door.
2. Place pans of food to be cooked into the compartment and shut the door.
3. Set the timer to the desired cooking time. Steaming begins. The red COOK light will turn on.
4. The cooking cycle may be interrupted at any time by opening the compartment door. Close the door to resume cooking.
5. When the buzzer sounds, the timed steaming cycle has finished. Steaming stops, and the COOK light turns off. To silence the buzzer, turn the timer to the OFF position.

Refer to *Steam Cooking with Vulcan Kettles and Steamers* (packed with your steamer) for

suggested cooking times. Also refer to the COOKING GUIDELINES in this manual. Size, weight, pan loading and product quality will affect cooking times and should be adjusted to your own requirements.

### **DAILY SHUTDOWN**

1. Press the power switch to the OFF position.
2. Clean the compartment(s).

### **EXTENDED SHUTDOWN**

1. Press the power switch to the OFF position.
2. Allow to drain completely.
3. Turn off main power supply.
4. Turn off water supply.
5. Thoroughly clean cavities, door seals, etc.

# CLEANING

**WARNING:** DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES BEFORE CLEANING.

## COOKING COMPARTMENT DRAINS

Keep compartment drains running freely. Inspect compartment drains daily for blockage. Remove any particles or debris from the perforated strainer daily (or more often if needed).

After cooking greasy foods or seafood, close the doors and operate each compartment for 25 to 30 minutes to flush any residual grease and oils down the compartment drain. Make a solution of warm water and non-chloride/chlorine/bleach based detergent and pour 1/2 gallon (1.9 liters) of it down each compartment drain. Rinse by pouring 1/2 gallon (1.9 liters) of hot water down each compartment drain.

## DRAINING THE GENERATOR

To prevent malfunction of controls and clogging, it is essential to drain the generator every day. This will flush out any accumulated minerals from the feed water. It will also aid in preventing internal scale buildup which would interfere with proper generator operation. Failure to drain the generator every day will void the steamer warranty. The presence of minerals in suspension is indicated by a murky or milky condition in the first portion of the water drained.

**WARNING:** THE WATER BEING DRAINED IS HOT AND UNDER PRESSURE. USE CARE WHEN CLEANING OR SERVICING THE GENERATOR.

After the generator has been in operation, turn the unit off with the power switch located on the bottom cooking compartment to drain the generator. The generator will drain for approximately 5 minutes, removing sediment, scale and lime buildup in the generator.

## COMPARTMENTS

Wash the inside of the compartment with a solution of warm water and non-chloride detergent. Rinse with warm water.

Once a week, thoroughly clean the exposed surfaces (sides, front, door and top) with a damp cloth and polish with a clean cloth. To remove discolorations, use a nonabrasive cleaner.

## DOOR GASKETS

Clean the gasket-sealing surface of the compartment doors to remove food acids for maximum gasket life. Do not use any solvents or sharp instruments. Wash with a cloth moistened in a solution of mild detergent and warm water. Rinse with a fresh cloth moistened with warm water to remove all traces of detergent.

Wipe dry with a clean cloth. Never apply food oils or petroleum lubricants directly to the door gasket. Petroleum-based solvents and lubricants will reduce gasket life.

## LEAVE COMPARTMENT DOORS OPEN

Leave the compartment doors slightly open when the steamer is not in use. When the compartment is idle, never latch the door and apply pressure to the door gasket. Leaving the gasket under pressure can cause permanent deformation and reduce gasket life.

## GUIDELINES FOR MAINTAINING STAINLESS STEEL SURFACES

There are four things that will break down stainless steel and allow corrosion to develop:

- 1) Abrasion
- 2) Deposits
- 3) Water
- 4) Chlorides.

## C24EA SERIES ELECTRIC CONVECTION STEAMERS

Avoid rubbing with steel pads, wire brushes or scrapers that can leave iron deposits on stainless steel. Instead, use plastic scouring pads or soft cloths. For stubborn stains, use products such as Cameo™, talc or Zud First Impression™. Always rub parallel to the polish lines or with the grain.

Hard water will leave deposits that promote rust on stainless steel. Treated water from softeners or certain filters can eliminate these mineral deposits. Other deposits from food or lubrication must be properly removed by cleaning. Use mild detergent and non-chloride/chlorine/bleach based cleaners. Rinse thoroughly and wipe dry. Where appropriate, apply a polish recommended for stainless steel (such as Benefit™ or Super Sheen™) for extra protection and luster.

# MAINTENANCE

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## WATER TREATMENT SYSTEM

A water treatment system is recommended for the steamer. Refer to your supplier's manual for normal maintenance procedures for proper scale-free operation.

## REMOVAL OF LIME SCALE DEPOSITS

The steamer should be delimed when symptoms occur (see Troubleshooting Chart). This is in accordance with the minimum preventive maintenance schedule required by the Warranty.

**WARNING:** READ AND FOLLOW THE INSTRUCTIONS ON THE DELIMING MATERIAL PACKAGE. AVOID CONTACT WITH SKIN AND EYES. WEAR PLASTIC OR RUBBER GLOVES AND SAFETY GOGGLES WHEN HANDLING. WASH THOROUGHLY AFTER HANDLING. IF DELIMING SOLUTION COMES IN CONTACT WITH THE SKIN OR EYES, RINSE THOROUGHLY WITH CLEAN WATER.

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**Note:** The capacity of the generator/superheater is approximately 8.1 gallons.

## Items Required (not provided)

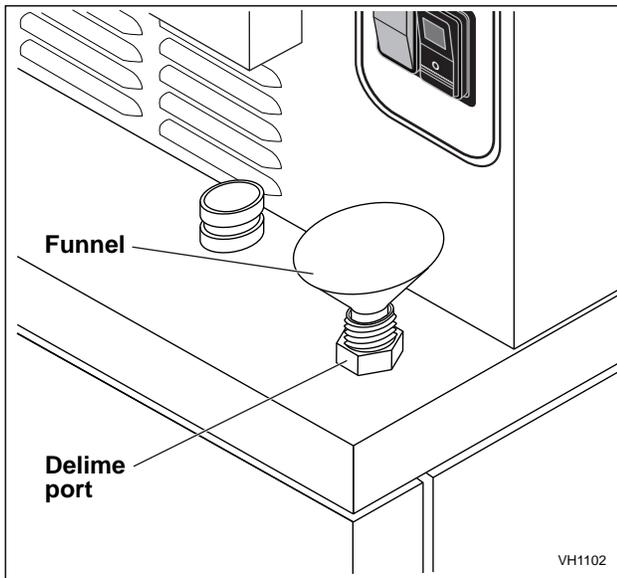
- Deliming material (Recommend "Scale Release")
- Funnel
- Plastic or rubber gloves
- Safety goggles or face shield
- Measuring cup
- 1-gallon container for mixing deliming solution
- Petrol-Gel Lubricant or equivalent food-grade grease for coating deliming port threads

**Note:** Deliming solution may cause the surface of aluminum measuring tools to tarnish or etch.

## Deliming Procedure

**Note:** This procedure is not intended to take the place of a water treatment program.

1. Press the power switch to off. Wait 5 minutes for steam generator to completely drain and the drain valve to close.
2. Turn cooking timers to OFF.
3. Prepare deliming solution according to the instructions on the deliming material package. Follow all manufacturers' instructions. The generator and superheater capacity is approximately 8.1 gallons.
4. Remove delime port cap located on the front ledge beneath the lower compartment and insert a funnel into the delime port (Figure 3).



**Figure 3. Deliming port location**

5. Pour deliming solution into the steam generator slowly to avoid spillage.
6. Remove funnel from delime port then rinse port and surrounding area with clean water. Wipe dry.
7. Lightly coat delime port threads with Petrol-Gel then install delime port cap. Cap must be installed and tightened securely at all times.
8. Press and hold the delime switch to DELIME position until the DELIME light comes on (approx. 3 seconds).

**Note:** Lights will illuminate on the delime switch and on the power switch, indicating that the deliming cycle has begun. The cycle will take about 60 minutes to complete.

As the deliming cycle nears completion, the light on the power switch will turn off. Once the generator has completely drained, the light on the delime switch will turn off. This completes the deliming cycle.

9. It is necessary to rinse the generator of any residual deliming solution. To rinse the generator simply repeat step 8, wait at least 10 minutes, and press the delime switch to the off/bottom position. The machine will then go through a drain cycle.

10. The steamer is ready for operation or shutdown.

### Door Gasket

If the door gasket is leaking due to a nick or cut, it must be replaced. Damage to the gasket sealing surface will cause steam leakage.

### Draining Generator

Drain the generator at the end of each day to flush out minerals and minimize scale buildup. The generator drains automatically for approximately 5 minutes after the power switch is turned to off.

## COOKING GUIDELINES

The steamer steam cooks vegetables, frankfurters, eggs in their shells, and certain other meats or food items at atmospheric pressure.

These cooking guidelines are suggestions only. You should experiment with your food products to determine the cooking times that will give you

the best results. Variables which affect cooking time include size, weight, thickness of foods, temperature, density, previous condition of the foods (fresh, pre-blanching or frozen) and degree of doneness desired.

### PRODUCTS TO BE COOKED IN SOLID PANS

PRODUCT	TIME (MINUTES)	QUANTITY PER PAN
Eggs, Scrambled	9 - 12	8 Doz.
Rice, Long Grain (Cover with 4 cups water/lb.)	23 - 25	2 Lb.
Pasta (Place perforated pan inside solid pan, cover with cold water)		
Spaghetti – Regular/Vermicelli	10 - 15	4 Lb.
Macaroni - Shells/Elbows	13 - 18	4 Lb.
Noodles - 1/2" Wide	10 - 15	4 Lb.
Lasagna Noodles	13 - 18	4 Lb.
Frozen Casseroles, Lasagna	33 - 35	Full Pan
Meat Loaf, 3-5 Lb. Each	38 - 40	15 Lb.
Beef		
Ground Chuck	19 - 25	10 Lb
Sliced as Purchased	33 - 40	10 Lb.
Shrimp, Frozen, 10 Shrimp per Lb.	4 - 5	4 Lb.
Beans		
Baked	8 - 9	10 Lb. Can
Refried	8 - 9	10 Lb. Can
Canned Vegetables	5 - 6	10 Lb. Can
Prunes, Dried	11 - 15	Full Pan

**PRODUCTS TO BE COOKED IN PERFORATED PANS**

<b>PRODUCT</b>	<b>TIME (MINUTES)</b>	<b>QUANTITY PER PAN</b>
<b>SEAFOOD</b>		
Clams		
Frozen	9 - 12	3 Doz.
Fresh, Cherrystone	4 - 6	3 Doz.
King Crab, Frozen		
Claws	3 - 4	2 1/2 Lb.
Legs	3 - 6	4 1/2 Lb.
Lobster Tail, Frozen	5 - 6	10 Lb.
Lobster, Live, 10" - 12"	4 - 5	4
Salmon Fillets, Frozen, 8 ounce each	4 - 5	7 1/2 Lb.
Scallops, Fresh	3 - 4	3 Lb.
Scrod Fillets, Fresh	3 - 5	4 Lb.
<b>EGGS</b>		
Hard Cooked	14 - 15	4 Doz.
Soft Cooked	8 - 10	4 Doz.
Soft Yoke for Caesar Salad	5 - 8	4 Doz.
<b>MEATS</b>		
Chicken — Breasts, Legs, Thighs	19 - 20	15 Lb.
Turkey, Frozen		
Breasts (2)	86 - 90	6 to 7 Lb. Each
Cut Lengthwise	53 - 55	20 to 25 Lb.
Corned Beef	40 - 75	6 to 8 Lb.
Hot Dogs and Wieners	2 - 3	80 to 100 Count
<b>VEGETABLES</b>		
Asparagus Spears		
Frozen	10 - 12	3 Doz.
Fresh	4 - 5	5 Lb.
Beans		
Green 2" Cut, Frozen/Fresh	5 - 6	5 Lb.
Lima, Frozen	7 - 8	5 Lb.
Baby Lima, Frozen	4 - 5	5 Lb.
Brussel Sprouts, Frozen	5 - 6	5 Lb.

PRODUCT	TIME (MINUTES)	QUANTITY PER PAN
<b>VEGETABLES (Cont'd.)</b>		
Broccoli		
Spears, Frozen	6 - 8	4 Lb.
Spears, Fresh	4 - 6	5 Lb.
Flowerettes, Frozen	4 - 6	5 Lb.
Cabbage, Fresh, 1/6 Cut	6 - 8	5 Lb.
Carrots		
Baby Whole, Frozen	6 - 8	7 Lb.
Crinkle Cut, Frozen	7 - 8	4 Lb.
Sliced, Fresh	9 - 11	9 Lb.
Cauliflower, Flowerettes		
Frozen	4 - 6	4 Lb.
Fresh	7 - 8	5 Lb.
Celery, 1" Diagonal Cut	5 - 7	5 Lb.
Corn		
Yellow Whole Kernel, Frozen	3 - 5	5 Lb.
Cobbettes, Frozen	6 - 8	27 Ears
Corn-On-Cob, Fresh	16 - 18	80 Ears
	16 - 18	54 Ears
	10 - 12	19 Ears
Peas, Green	4 - 6	5 Lb.
Potatoes, Whole Russet	50 - 55	40 Lb.
Spinach		
Chopped, Frozen	15 - 17	6 Lb.
Defrosted	4 - 5	6 Lb.
Fresh Cut	2 - 3	2 Lb.
Squash, Acorn Halves	22 - 25	10 Halves
Zucchini, Slices	6 - 8	10 Lb.
Frozen Mixed Vegetables	6 - 7	5 Lb.
<b>FRUIT</b>		
Fruit, Blanch for Peeling		
Grapefruit, Oranges	2 - 3	1 loose layer per pan
Pineapple, Whole for Cutting	2 - 4	

## TROUBLESHOOTING

SYMPTOMS	POSSIBLE CAUSES	REMEDY
Steamer not steaming	No main power source	Check the power source or circuit breaker.
	Power switch in off position	Press power switch to the on position.
	Door open	Close door.
	Water not being supplied to steamer	Refer to symptom WATER NOT BEING SUPPLIED TO STEAMER.
Steamer not heating/ steaming properly	Excessive lime build up in the steamer	Descale the steamer (see REMOVAL OF LIME SCALE DEPOSITS).
Door leaks	Damaged door gasket	Check door gasket for damage. If adjustment is needed, contact your Authorized Vulcan-Hart Servicer.
	Improper drain	
	Drain clogged	
	Damage to gasket sealing surface	
Water accumulates in compartment	Plugged drain or screen	Clear compartment cavity screen. If symptom persists, contact your Authorized Vulcan-Hart Servicer.
	Unit not leveled properly	See leveling instructions in the INSTALLATION section of this manual.
	Drain clogged	Unclog drain.
Water not being supplied to generator	Water supply valve is off	Turn valve on.
	Water pressure low	Check water supply pressure.
	Water filter is plugged	Refer to water filter manual. If symptom persists, contact your Authorized Vulcan-Hart Servicer.
	Valve inlet screen clogged	Contact your Authorized Vulcan-Hart Servicer.
Steam is exiting from under steamer	Generator pressure is too high	Contact your Authorized Vulcan-Hart Servicer.

## NOTES

## SERVICE AND PARTS INFORMATION

To obtain service and parts information concerning this steamer, contact the Vulcan-Hart Service Agency in your area (refer to listing supplied with the steamer), or contact the Vulcan-Hart Service Department at the address or phone number shown on the front cover of this manual. Parts and service are also available at [www.vulcanhart.com](http://www.vulcanhart.com).