



## **INTRODUCTION**

Thank you for purchasing this quality PM1 glass washer machine. This glass washer has showed its efficiency for many years now. Indeed, its unique way to use a closed washing system and its special designed chemical distribution that avoids contact with water from the wash tank, provides effective results.

Further, the water pump with the stainless steel lid provides a constant pressure of 50 psi and over, regardless of the main water pressure. This ensures that the washing & rinsing of your glasses will be impeccable.

## **GENERAL INFORMATION**

**Equipment : Two half moon racks & Owner`s manual.**

**Time Cycle : 60 seconds**

**Current Draw Amps: 120/240v 60 hz 20amps. It can also function on 120/208v 60hz 20 amps, but will reduce the performance of the heater operating system.**

**Drain Connection: This machine has a gravity waste system and requires a trapped 1½" abs; the hose must flow down from the waste outlet to the floor drain. The waste system is located at the rear left side of the machine and it is drained by gravity to a height less than 6 inches from the floor.**

**The appliance requires between 50 ° and 60 ° Celsius (130 ° et 140 °F) of hot water.**

**WARNING: A temperature above 60° Celsius can damage the water pump and cancel its warranty.**

## **CHEMICAL PRODUCTS**

**The PM1 glass washer comes with three peristaltic chemical dosing pumps with tree primer switch located beside the start button. Those primer switch are used to fill in the tubes when they are empty. To determine the sufficient dosage level please contact your chemical product representative. It is recommended to use 10 to 15 ml of detergent, 2 ml of sanitizer and 5 ml of rinse aid.**



**The length of the wash cycle is as follows:**

**Start**

Detergent dispenser (around 4 to 5 orange/white strikers) (downtime)

Wash (6 orange/white strikers)(downtime)

2nd detergent dispenser (around 4 to 5 orange/white strikers) (downtime)

Wash (6 orange/white strikers)(downtime)

Rinse (6 orange/white strikers)(downtime)

Sanitizer dispenser (1 to 2 strikers)(downtime)

Rinse (6 orange/white strikers)(downtime)

Rinse-aid dispenser (around 4 to 6 orange/white strikers) (downtime)

Final rinse (8 orange/white strikers)

**End of cycle**

The adjustment of the chemical concentration is done by the timer in section D (detergent), S (sanitizer), R (rinse aid). The strikers that are raised, activates the pumps for each products. To increase the concentration of the products you need to activate more strikers. To decrease the concentration you need to do the opposite (see the picture of the timer S1049)

**MIXING CHEMICAL CONTAINER**

The mixing chemical container is located at the outlet of the water pump. It is made of stainless steel and includes three non-return valves to prevent a backflow from the tank into the product tube. These valves should be removed and cleaned periodically to maintain the proper flow of products. You simply need to unscrew the valve to access the rubber shaped duckbill. If required, it will be necessary to replace the valve. Please note that a high concentration of chlorine can damage the valve prematurely. It is therefore recommended to use a sanitizer product that contains a maximum concentration of 6% of chlorine.



## OPERATION INSTRUCTION

1. Turn the machine switch ON this will allow the water to fill and heat as normal. Wait until it has reached the right temperature, about 60° Celsius (140° F). Check the temperature indicated by the dial gauge next to the start button.
2. Load the rack of glass before and then turn inside the glasswasher.
3. Push the yellow button to start the cycle. The button will illuminate while an operational cycle is in process. When the light turns off, it means the cycle is completed. You can turn the rack of clean glasses outward and let them dry at open air.  
**\* WARNING : Do not open the door during the wash cycle because there is no automatic shutdown system and there are risks of being burn.**
4. It is allowed to put dirty glasses in the front rack during the wash cycle. At the end of the current cycle the device is ready to restart another cycle.

## CARE AND CLEANING

To clean the appliance, it is suggested to use an all purpose cleaner. Simply wash the machine to remove dust and dirt inside and out. It is important to pay particular attention to the two screens. First, the residues of beers, drinks or any liquor accumulated under the front screen should be cleaned and removed. Daily cleaning is recommended. Secondly, the screen that is below the spray arms inside the washing container must be checked and cleaned every day. It is used to prevent residues from lemons, cherries, sticks and other things used for drinks, ending up and blocking the drain pipe.

## PROGRAMMING THE TIMER

The sequences should be set to the stop position indicated by the arrow

Make sure that the that the heating element is programmed to work only when the timer is on "OFF"  
One orange/white strikers = 0.83 secs.



Detergent	Water pump	Sanitizer	Rinse cycle	Heating
				# 3 secs
4 secs				
*				
	6 secs			
*				
4 secs				
*				
	6 secs			
*				
	6 secs			
*				
		2 secs		
*				
	6 secs			
*				
			3 secondes	
	8 secs			

**\*All tabs with \* equals a 3 seconds downtime.**



## TROUBLESHOOTING

### **Glasswasher doesn't start :**

1. Check that the indicator lamp is on
  - a. If the indicator lamp is on, verify that correct voltage of 120V is supplied to the timer when you press the cycle start button.
    - i. If voltage is ok, replace the timer
    - ii. If there is no voltage, replace the starter switch
  - b. If the indicator lamp is off, check that the device is plugged into a power source and the circuit breaker is properly operating.

### **Glasswasher complete its cycle but no water comes out of the spray arms:**

1. Check to be sure that the water valve is fully open.
2. Make sure the water pump works as programmed on the timer
  - a. If the pump runs
    - i. Check that the water tank is filled. If the water tank is filled, verify that the spray arm nozzles are clean and free of any residue. Clean is necessary.
    - ii. If there is still no pressure, replace the water pump
    - iii. If the water tank is empty, check if the necessary voltage (120V) is supplied to the coil of the valve. If there is no voltage, replace water level micro switch. If there is voltage, check if the coil works well. To do so, remove the coil from the valve, insert a screwdriver into the hole and turn the switch to the "ON" position. If the magnetic field is produced by the coil, replace the valve. If there are no magnetic field than replace the coil.
  - b. If the pump doesn't work



**Poor washing results:**

1. Make sure that the chemical products tubes are at the bottom of each gallon.
2. Verify that each products quantity is sufficient using the prime button
3. Ensure that the spray arm nozzles are not blocked and that they are clean. Clean if necessary.
4. Check that the spray arm turns properly. To check this, turn the start button during the time the pump is on and open the door quickly. You should see the arms continue to rotate for a few seconds.  
Note that an angle of 15° of the washing nozzles in opposition on each side is necessary to ensure its rotation.