

INSTRUCTION MANUAL & PARTS LIST

GEMIII

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1.0 INTRODUCTION

This manual contains installation, operation and repair parts lists for the GEMIII Steam Generator.

The GEMIII is designed with constant attention to quality, performance and operator safety. It is constructed of the highest quality materials and rigorously tested at the factory.

1.1 PRECAUTIONS

It is vital that the purchaser of a GEMIII read these instructions and fully understand them before installing or operating the machine. It is also the responsibility of the purchaser to make sure that all personnel that come in contact with this machine comply with and understand all the safety related instructions and warnings that are in this Instruction Manual.

1.2 SAFETY NOMENCLATURE

NOTES, CAUTIONS and WARNINGS used throughout this manual to emphasize important and critical instructions.

NOTE: A NOTE IS USED TO EMPHASIZE OPERATING PROCEDURES & CONDITIONS THAT ARE ESSENTIAL TO HIGHLIGHT.

CAUTION
A CAUTION IS USED TO INDICATE A HAZARDOUS SITUATION, WHICH MAY RESULT IN PERSONAL INJURY OR DAMAGE TO THE MACHINE.

WARNING
A WARNING IS USED TO INDICATE A HAZARDOUS SITUATION THAT HAS SOME PROBABILITY OF DEATH OR SERIOUS PERSONAL INJURY.

1.3 SAFETY SUMMARY

The following are general safety precautions that are not related to any specific procedures and therefore do not appear elsewhere in this manual. These are recommended precautions that personnel must understand and apply during all phases of operation and maintenance.

WARNING
DO NOT OPERATE OR SERVICE THIS MACHINE BEFORE READING AND UNDERSTANDING THIS INSTRUCTION MANUAL.

WARNING
IT IS THE RESPONSIBILITY OF THE PURCHASER OF THIS MACHINERY TO TRAIN THE OPERATING PERSONNEL IN THE PROPER MANNER OF OPERATION. IT IS FURTHERMORE UNDERSTOOD THAT HOFFMAN ASSUMES NO RESPONSIBILITY FOR INJURY, DISABILITY, OR DEATH RESULTING FROM IMPROPER OPERATION OF, OR REMOVAL FROM OR BY-PASSING THEREOF ANY ELECTRICAL OR MECHANICAL SAFETY DEVICES INCORPORATED IN THE DESIGN AND MANUFACTURING OF THIS MACHINERY.

WARNING
BEFORE SERVICING THIS MACHINE, DISCONNECT SOURCES OF ELECTRIC. ALLOW THE STEAM GENERATOR AND ALL OTHER COMPONENTS TO COOL.

NOTE: WHEN SERVICING THIS MACHINE, USE ONLY APPROVED HOFFMAN REPLACEMENT PARTS.

NOTE: USE DISTILLED WATER ONLY.

NOTE: KEEP OPENINGS (FOR AIR) AROUND STEAM GENERATOR FREE AND CLEAR OF ALL MATERIALS.

NOTE: KEEP UNIT AWAY FROM CORROSIVE MATERIALS.

CAUTION
DO NOT TOUCH THE STEAM NOZZLE ASSEMBLY DURING USE OR UNTIL IT COOLS AFTER USE. IT IS HOT.

CAUTION
DO NOT BLOCK STEAM NOZZLE BUT, IF IT BECOMES PARTIALLY CLOGGED REMOVE WHEN COOL AND CLEAN THOROUGHLY.

CAUTION
DO NOT RESTRICT THE AIRFLOW AROUND THE UNIT IN ANY WAY UNTIL IT IS COMPLETELY COOL TO THE TOUCH.

1.4 SUMMARY DATA AND TABLE

Table 1.4.1

SERVICE CONNECTIONS	
Electric	120 VAC, 60 Hz, 1 Phase, 15 Amps.

Table 1.4.2

MODEL	GEMIII DIMENSIONS inches (mm)			SHIPPING WEIGHT lbs(kg)	MACHINE WEIGHT lbs(kg)
	Length	Width	Height		
GEMIII	12.5 (317)	8.75 (222)	12.4 (315)	18.5 (8.4)	16.3 (7.4)

2.0 INSTALLATION & STARTUP INSTRUCTIONS

2.1 GENERAL INSTALLATION INSTRUCTIONS

This section contains instructions for installing and preparing the machine for operation. All machines are tested and adjusted before leaving the factory.

2.2 LOCATING THE STEAM GENERATOR

1. Remove the machine from the shipping carton and remove all wrapping from the Steam Generator. Check for any shipping damage caused by or due to shipping.

NOTE: DO NOT LIFT THE UNIT BY THE STEAM NOZZLE AS THIS CAN DAMAGE THE UNIT.

2. Set the unit in a clear area where nothing can touch or surround the unit. Proper air ventilation must be allowed to flow around and through the Steam Generator. Also, do not set anything on nor lean objects against it.
3. Plug the power cord into a 120 volt 15 amp (minimum) receptacle.
4. Place the foot pedal on the floor so that it rests conveniently at the left side of the unit.
5. Place the end of the clear vinyl water intake hose into a container of distilled water. Make sure that the copper tubing extending from the vinyl is at the bottom of the container.

NOTE: USE DISTILLED WATER ONLY. TAP, SPRING AND FILTERED WATER ARE NOT THE SAME AS DISTILLED WATER AND CAN DAMAGE THE STEAM GENERATOR. THE USE OF NON-DISTILLED WATER WILL CAUSE MINERAL DEPOSITS WHICH WILL CLOG THE STEAM CHAMBER AND OUTPUT NOZZLE. THE DAMAGE WILL BE SEVERE.

3.0 OPERATING INSTRUCTIONS

This section contains instructions and information required to operate the GEMIII. Before operating the GEMIII, it is important that the operating personnel become thoroughly familiar with the operating instructions.

3.1 OPERATING INSTRUCTIONS

The following steps outline the procedures for operating the GEMIII.

1. Turn the power switch to the on position and the red light will come on to indicate that the machine is on.
2. The warm up time will be approximately ten minutes but it may vary. As soon as the machine is turned on, the pump should be primed. Step on the foot pedal and you should see distilled water flowing through the vinyl tubing. Continue depressing the foot pedal until the water reaches the inside of the machine.

3. The green “ready” light will come on indicating that the chamber is fully heated and that the unit is ready for use. During use and throughout the day the green light will cycle (on and off) in order to maintain maximum chamber temperature. To make steam, wait until the green “ready” light comes on for the first time. Then push the foot pedal for approximately three to five seconds.

NOTE: DO NOT HOLD FOOT PEDAL LONGER THAN FIVE SECONDS OR THIS WILL CAUSE STEAM CHAMBER TO FILL WITH WATER. WHEN THIS HAPPENS THE ELEMENT WILL HAVE TO REHEAT THE CHAMBER. WHEN THE CHAMBER IS HEATING THE WATER INSIDE WILL SLOWLY TURN TO STEAM AND ESCAPE THROUGH THE NOZZLE. THE LIGHT WILL CYCLE BACK TO GREEN WHEN HOT AND CAN BE OPERATED NORMALLY AGAIN.

4. In normal use the steam will always be available. However, for long or extended steam outputs the pressure and volume will decrease and, in some cases the unit may require a few moments for the chamber to be brought back to “ready” temperature.

NOTE: DURING NORMAL OPERATION SOME STEAM MAY ESCAPE FROM THE NOZZLE WHEN NOT BEING USED. THIS IS JUST SMALL AMOUNTS OF WATER LEFT IN THE CHAMBER TURNING TO STEAM.

CAUTION

AFTER RELEASING FOOT PEDAL, THIS UNIT WILL CONTINUE TO STEAM FOR APPROXIMATELY 15 SECONDS. THIS IS NORMAL OPERATION.

3.2 CLEANING INSTRUCTIONS

The GEMIII Flash Steamer has a stainless steel, corrosion resistant and easy to clean housing. To keep the housing clean and sanitized, have the steamer fully cooled and wipe all exterior surfaces with antibacterial wipes such as Clorox® Disinfecting Wipes.

This procedure should be performed at the end of each day or shift.

WARNING

THE STEAMER STAYS HOT FOR A LONG TIME. TO AVOID BURNS, ALLOW THE STEAMER TO COOL COMPLETELY BEFORE CLEANING.

4.0 TROUBLE SHOOTING

The following section contains a troubleshooting guide on the GEMIII.

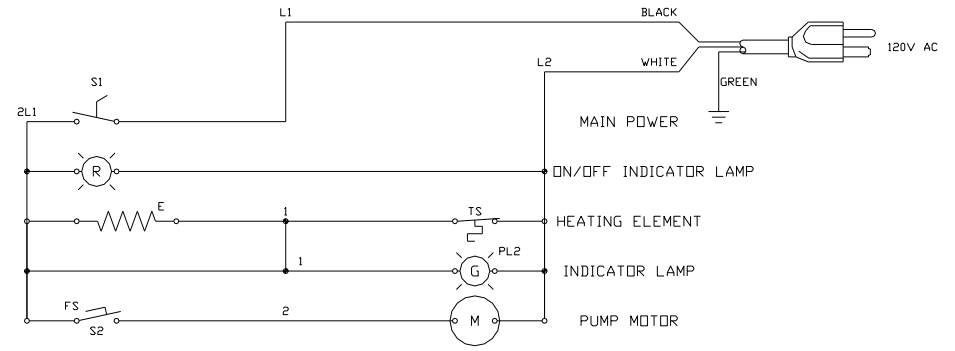
4.1 TROUBLE SHOOTING

Table 4.1.1 – Trouble Shooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
No power/lights	Power switch	Check to see if switch is turned on.
	Power plug	Check to see if plug is plugged in.
	Power/Circuit Breaker	Check power at 120 volt receptacle. Check circuit breaker.
No steam	Vinyl water intake hose	Check that hose is underwater and at the bottom of water container
	Pump motor	Check; if not running see no power/lights above.
	Steam nozzle	Clean.

5.0 DRAWING & PARTS LIST

5.1 WIRING DIAGRAM



Wiring Diagram Descriptions

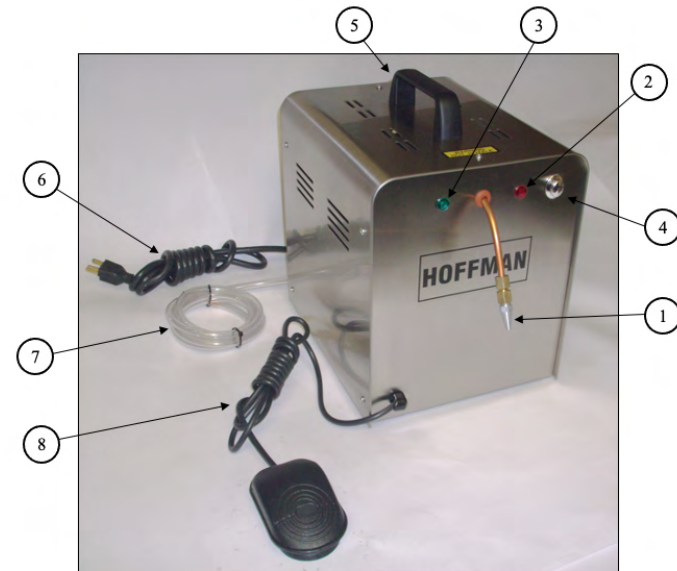
S1 = MAIN POWER ON/OFF SWITCH
R = RED INDICATING LAMP
E = HEATING ELEMENT
TS = SAFETY THERMOSTAT

G = GREEN INDICATING LAMP
FS = FOOT SWITCH (S2)
M = PUMP MOTOR

5.2 PARTS LIST

Figure 5.1

Note: Internal items 9 through 15 not shown.



ITEM NO.	PART NO.	DESCRIPTION	PHOTO
1	113285	NOZZLE	
2	0663294-1	RED LIGHT ASSEMBLY	
3	0663294-1G	GREEN LIGHT ASSEMBLY	
4	0664003	ON & OFF SWITCH ASSEMBLY	
5	0575030	HANDLE (Hardware Included)	
6	0663295-1	POWER CORD ASSEMBLY	
7	065177	VINYL TUBING 5 ft.	
8	75914	FOOT PEDAL ASSEMBLY	
9	0663995	THERMOSTAT	

ITEM NO.	PART NO.	DESCRIPTION	PHOTO
10	0664148	THERMOSTAT WITH MANUAL RESET	
11	0145004	SAFETY VALVE	
12	0663763	HEATING ELEMENT	
13	0663816	PUMP	
14	AP2607	RESTRICTOR	
15	0663816-1	PUMP MOUNTING BRACKET	
16	0764045	RUBBER BUMPER (FOOT)	