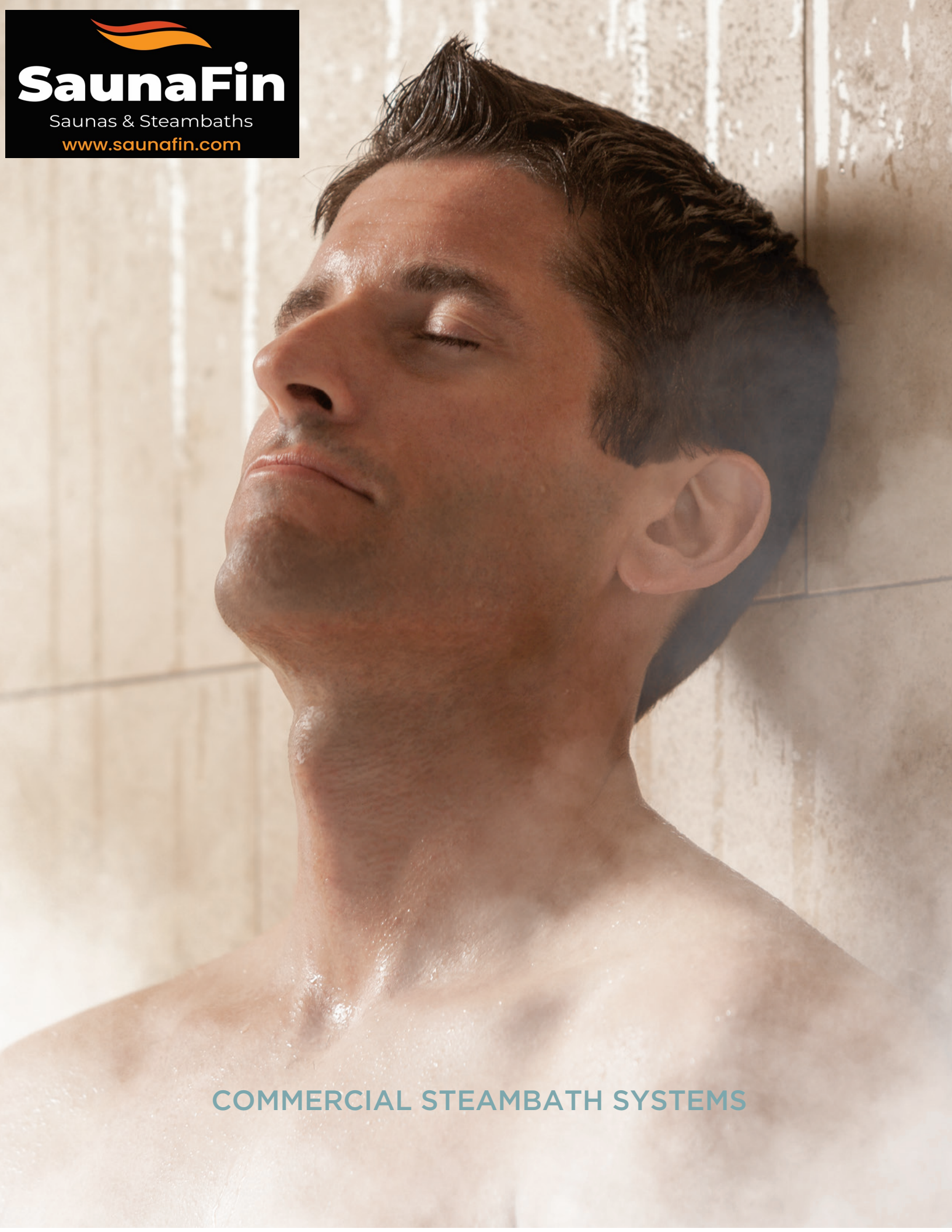




**SaunaFin**

Saunas & Steambaths

[www.saunafin.com](http://www.saunafin.com)



COMMERCIAL STEAMBATH SYSTEMS

# Commercial Steambath Systems

SAUNAFIN offers a complete selection of Steam Generators, Controls and Accessories for steamrooms in commercial applications. In commercial environments it's particularly important to be able to program

a Steam Generator for energy-efficiency and reduced costs during off-peak hours.

## **HC SERIES STEAM GENERATORS INCLUDE OUR DIGITAL CONTROL PACKAGE.**

- + Allows programming of steamroom settings from up to 100-foot distance from generator (50-foot cables ship standard).
- + Idle setback feature allows efficient tailoring of operations for off-peak hours. Each day of the week can be programmed individually. Provides maximum temperatures and energy-saving "idle" temperatures.
- + When installed with Second Room Package, can program two steamrooms with one generator.

### **Package includes:**

- + Microprocessor Boiler Control with two relays prewired for the aromatherapy pump
- + Digital Command Center and cable
- + User Bypass Control and cable
- + Room Sensor and cable
- + Steam Solenoid pre-assembled to the steam generator

### **Optional Second Room Package Available**



HC Series Generators come with 3199 Steamhead, with Cool Sense silicone cover.







ASME Authorized Certificate Holder. All of our HC Series Steam Generators are certified and stamped to meet stringent ASME codes and UL standards.



MODELS HC-9/12/15/18/24  
Dimensions: 21"L x 19"W x 25"H



MODELS HC-30/36/48  
Dimensions: 39"L x 22"W x 28"H

HC SERIES STEAM GENERATORS									
MODEL	kW	MAX CU FT	PRODUCT CODE	ELECTRICAL				WEIGHT	
				VOLTS	PHASE	AMPS	BREAKER*		
HC-9	9	400	60900	240	1	38	50	200 lbs	
			60901	208	1	43	60		
			60902	240	3	22	30		
			60903	208	3	25	35		
			60904	480	3	11	15		
HC-12	12	500	61200	240	1	50	70	200 lbs	
			61201	208	1	58	80		
			61202	240	3	29	40		
			61203	208	3	33	45		
			61204	480	3	15	20		
HC-15	15	620	61500	240	1	63	80	200 lbs	
			61501	208	1	72	90		
			61502	240	3	36	45		
			61503	208	3	42	60		
			61504	480	3	18	25		
HC-18	18	740	61800	240	1	75	100	200 lbs	
			61801	208	1	87	110		
			61802	240	3	43	60		
			61803	208	3	50	70		
			61804	480	3	22	30		
HC-24	24	1000	62400	240	1	100	125	200 lbs	
			62401	208	1	115	150		
			62402	240	3	58	80		
			62403	208	3	67	90		
			62404	480	3	29	40		
HC-30	30	1250	63000	240	1	125	175	300 lbs	
			63001	208	1	144	200		
			63002	240	3	72	90		
			63003	208	3	84	110		
			63004	480	3	36	45		
HC-36	36	1500	63600	240	1	150	200	300 lbs	
			63601	208	1	173	225		
			63602	240	3	87	110		
			63603	208	3	100	125		
			63604	480	3	44	60		
HC-48	48	2000	64802	240	3	116	150	300 lbs	
			64803	208	3	133	175		
			64804	480	3	58	80		

\*Note: 90°C copper wire is required for connection to the steam generator.

Auxiliary Manual Reset Pressure Cutoff is now standard on all Steamist Commercial HC Series Generators to meet UL 834 and ASME CSD-1 standards. Many state and local codes require an auxiliary pressure cutoff device with a manual reset.

# HC Steam Generator Controls and Accessories

## USER BYPASS CONTROL INCLUDED IN HC SERIES PACKAGES



**User Bypass Control**  
installed outside steamroom allows user to change settings within programmed temperature range.



A



B

### Optional Second Room Package

Includes 2nd User Bypass Control with 50' cable, 2nd Room Sensor with 50' cable, 2nd Steam Solenoid pre-assembled to the steam generator, 2nd Steamhead.

### SRP Second Room Package

| 68010 (not sold separately)

### Pure Aromatherapy Oils (Optional)

For use only with our AP-100 Aroma Pump System. 1100 ml of essential oils, equivalent to competitors' 10L/2.6 gal. diluted spa oils commonly found on the market.

**Essential Eucalyptus Oil (1100 ml)** | HC-EUC 68018

**Essential Lavender Oil (1100 ml)** | HC-LAV 68019

### A. Optional Aroma Pump System

The AP-100 is unique to the industry. It is a micro-dosing pump designed to work with pure essential oils. Most pump systems on the market today deliver a higher volume of diluted oils. Since oil does not mix with water an emulsifier chemical is used to help dilute the oil. The AP-100 delivers the full therapeutic value of pure essential oils without emulsifiers and dilution agents. Diluted oils are typically oils just 5% or 10% oil. Our 1100 ml bottles of pure essential oil deliver more oil than the typical 10 liters/2.6 gallons of diluted oil commonly sold.

4" W x 18" H x 4.5" D

**AP-100 Commercial Aroma Pump System** 68017

### B. Programmable Steamroom Temperature Alert

Digital display with audible alert, secondary remote audible alert, tamperproof lock, heater interrupt relay and test button. Lock feature prevents patrons from changing the temperature setpoint, prevents the alert from sounding and prevents the heat from being cut off. The alert cannot be reset until the room cools down below the programmed temperature. Interrupt relay disables heater when the audible alarm sounds. Test button is used to check that the heater is disabled when alert sounds.

6.5" W x 7" H x 1.75" D

**TA-100 Temperature Alert** | 68016



C

### C. Digital Automatic Blowdown Valve

#### DC-ABD, 208V Valve

| 68014 (not sold separately)

#### DC-ABD, 240/480V Valve

| 68015 (not sold separately)

#### Auxiliary Manual Reset

##### Low-Water Control

Many states and local jurisdictions, as a standard, require an independent, manual reset, second low-water cutoff control. Please check with your local jurisdiction if this needs to be ordered together with the HC steam generator. (This is a factory-installed option and cannot be sold without a Steam Generator.)

| 68020 (not sold separately)



D

### D. Optional 24" Stand for HC Series Steam Generators

| 68005

HC-9 through HC-24.

20" L x 10-1/2" W x 24" H

| 68006

HC-30 through HC-48.

25-1/2" L x 14" W x 24" H



E

### E. ASME Code Blowdown Tank

Permits draining of hot boiler water into the tank before it is dumped into drainage system.

Allows the HC blowdown system to comply with codes prohibiting discharge of water exceeding 140°F.

| 68007

## (NEW!) Blowdown Tempering Valve

Product Number: HC-BTV

The HC-BTV provides a convenient, economical alternative to a Blowdown Tank for tempering the Blowdown water. Since the HC-BTV is only open when the flow exceeds the set-point temperature, it also conserves water by automatically turning off cold water when not needed.

### Product features

- Compliant with drain temperature limitations of plumbing code
- Prevents damage to PVC piping due to overtemperature conditions
- Easy to install
- Rugged, clog resistant valve design
- Operates in any orientation
- Modulates to conserve water
- Effluent tempering capacity limited only by cold water flow rate through the valve

### Dimensions and Capacities

- Water inlet size is  $\frac{1}{2}$ "NPT.
- Drain size is 1"NPT.
- Maximum water inlet pressure 125 PSIG (8.6BAR)
- Maximum temperature is 250°F (121°C)
- Full open set temperature 120°F (49°C)
- Closing temperature 110°F (43°C)

### Operation

The HC-BTV is fully automatic requiring no electric. The HC-BTV is installed into the drain line such that the hot blowdown water passes over the thermal actuator of the HC-BTV and this thermal actuator controls the cold water inlet port. When the thermal actuator senses water in excess of 120°F the HC-BTV opens to allow an injection of cold tap water. As the hot blowdown water cools, the HC-BTV automatically modulates to reduce cold water inlet water flow. At about 110° degrees the cold water inlet is fully closed.

### Installation

Included with the HC-BTV from Steamist is a Drain Tee and Water Hammer Arrestor along with some of the necessary fittings. **Not** included is a Back Flow Preventer. Different codes have different requirements for Back Flow prevention and you must provide one that is acceptable to meet your local code. When connected to a Steamist HC model steam generator, you may use one Back Flow Preventer for both, the water inlet connection to the steam generator and the water connection to the HC-BTV.

1. For maximum cold water flow tempering, the cold water connection to the HC-BTV must be a minimum of  $\frac{1}{2}$ ".  
Important: A #20 mesh strainer is recommended where needed.
2. The HC-BTV should typically be installed as close to the steam generator as possible in order to allow cold water to mix fully before running down the drain.
3. The HC-BTV has been preassembled with a drain tee and a water hammer arrestor. If this assembly is modified you must follow these guidelines.
  - a. Make sure the cold water inlet fitting into the HC-BTV has a large enough inside diameter (.622" minimum) and short enough length so that it does not interfere with the valve plug inside the water inlet fitting.
  - b. Insure the thermal actuator does not touch the opposite side of the fitting.
4. Check local codes as to the type of check valve or backflow preventer that may be required.
5. Refer to drawing to comply with plumbing code and air gap requirement (Figure 3).
6. Always test for proper operation after installation.

Figure 1 - Blowdown Tempering Valve

