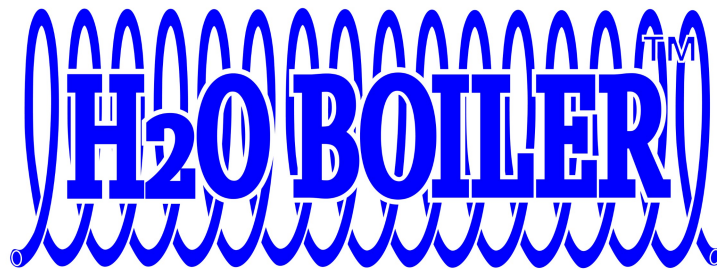


H₂O BOILER™



HIGH EFFICIENCY CONDENSING BOILERS AND WATER HEATERS

FROM 600,000 BTU/HR TO 2,500,000 BTU/HR



Ultra High Efficiency Condensing Boiler

Available in sizes of 600,000 – 2,500,000 BTU/HR

© Cutting-Edge Heat Exchanger Design

HC series is designed based on the radial pulse combustion technology patented by Gasmaster Industries Ltd; ASME rated single pass, counter-flow, water-tube heat exchanger.

© Superior Materials

Durable & reliable SA 249 316L stainless steel heat exchanger, high corrosion resistance, suitable for marine, food and process applications with no thermal shock.

© Modulating Burner and Controller

Comes with a wide range of burner selection from the major burner manufacturers; Also available with premix stainless steel mesh burner for low NOx (< 9 ppm) and higher turndown (20:1) configuration.

© Compact Design, Smaller Footprint

Fits through any standard door and requires minimum clearing distance between boilers placed side by side.

© Easy to Install & Low Maintenance

No moving parts, ease of accessibility for commissioning & start-up, minimal annual maintenance.

© Parts Availability

Non-proprietary components are supplied by world renowned manufacturers, availability worldwide.

© Warranty

20 years warranty against thermal shock.
10 years prorated heat exchanger warranty.

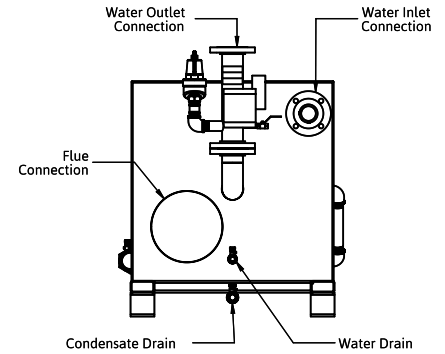
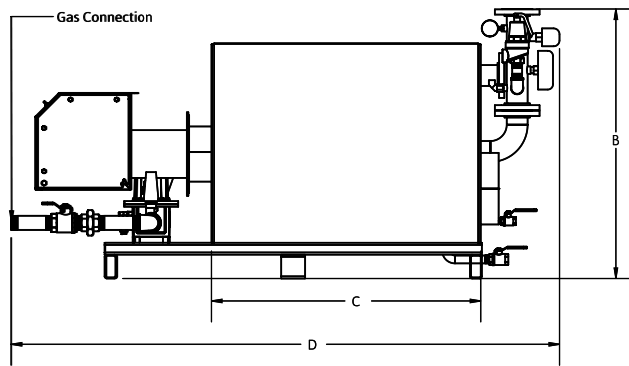
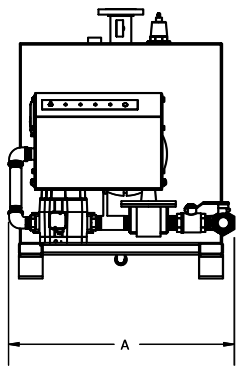
Standard Features

- » 95% thermal efficiency at full capacity
- » ASME approved SA 249 316L stainless steel heat exchanger
- » 3:1 Turndown ratio; Also available with 20:1 turndown ratio
- » Standard uncontrolled NOx; available in low NOX configuration (< 9ppm)
- » Maximum allowable working pressure 160 PSIG
- » Maximum allowable working temperature 210 °F
- » Category II or IV direct venting
- » Available in natural gas, propane and dual gas configurations
- » Siemens LMV37 combustion control. Also available with Honeywell Sola and Autoflame Mini MK8
- » 115V/1Ph/60Hz power supply; Optional power supply is available in 240V to 480V/3Ph/60Hz
- » UV flame detection
- » Control package display: keyed screen
- » Sealed combustion chamber
- » Standard NEMA-1 rated gas train
- » High temperature limit with manual reset
- » Water flow switch
- » 150 PSIG ASME rated pressure relief valve
- » Low water cut-off
- » Pressure gauge

Optional Features

- » Ultra low NOx: less than 9 ppm
- » High turndown ratio 20:1
- » Modbus or BACnet interface
- » Lead-Lag / Cascade (up to 8 units)
- » Touchscreen display
- » Combustion air intake adapter
- » Secondary low water cut-off
- » CSD-1 gas train
- » Auxiliary pump relay
- » Alarm bell on lock-out
- » Condensate neutralizer kit
- » Circulating pump
- » Air filter
- » Automatic safety shut-off valve with proof of closure
- » Custom skid

H₂O BOILER™



		HC 2500	HC 2000	HC 1500	HC 1000	HC 600
Input	BTU/hr	2,500,000	2,000,000	1,500,000	1,000,000	600,000
	kW	733	586	440	293	176
	BHP	74.6	59.7	44.8	29.9	18
Output	BTU/hr	2,375,000	1,900,000	1,425,000	950,000	570,000
	kW	696	557	418	278	167
	BHP	71	56.76	42.5	28.4	17
Boiler Eff. @ full load	%	95	95	95	95	95
Electrical Rating	V/Ph/Hz	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
Heating Surface	Ft ²	229	200	172	105	67
Side A	in/mm	35/890	35/890	35/890	35/890	35/890
Side B	in/mm	45/1,143	45/1,143	45/1,150	40.5/1,030*	40.5/1,030*
Side C	in/mm	44/1,118	37.75/959	35.6/905	26/661	20.5/521
Side D	in/mm	86/2,184	81.75/2,076	75.6/1,920	66/1,676	60/1,524
Shipping Weight ¹ (Approx.)	Lbs	1,500	1,350	950	750	550
Supply Connections	Inches	3	3	2	2	2
Return Connections	Inches	3	3	2	2	2
Water Content	USG	34	30	26	17	12
Gas Connection	Inches	2	2	2	1	1
Gas Inlet Pressure	Inches WC	7-14				
Flue Connection	Inches	12	10	10	9	7
Flue Duct Material	Stainless Steel (air tight, corrosion resistant)					
Max Working Pressure	PSIG	160				
Max Working Temp.	°F	210				
Min Inlet Water Temp.	°F	Any temperature above freezing point				
Min Service Clearance	Inches	Front 16", Top 0", Side 0", Back 4"				

1. Dry weight of unit
* To top of the surface

Available Configurations

HC Series - Natural Gas/Propane or Dual Gas

Other boiler/configurations available

- GMI Series - Natural Gas, Propane, No.2 Oil, Biogas, Dual Fuel
- NX Series - Natural Gas or Propane

Coming Soon

HC STACKABLE SERIES

UP TO 5,000,000 BTU/hr



H₂O BOILER™

