



Gasification Hydronic Wood Furnace

Bio Hydronix™ Gasification Hydronic Wood Furnaces are designed to be used as an outdoor unit for heating many kinds of buildings. Most common applications include residential homes, workshops, dry kilns and greenhouses.

These modern units use a wood gasification process that utilizes extreme temperatures maximizing the energy contained in wood, surpassing traditional boilers on the market.

Smoke and other emissions are cut to a very low level making our furnaces Ecologically friendly.



BIO HYDRONIX™ Gasification Wood Furnaces

Features/Benefits:

- Clean burning up to 2200° F combustion due to gasification process
- Up to 90% efficiency
- Refractory nozzle and combustion chamber
- One loading lasts 8-12 hours
- Built in buffer tank
- Built in thermal shock protection
- Overheat protection even in power outage situation
- Variable speed combustion fans from 40%-100%
- Easy to operate controller/digital read out
- Indoor reset capability
- Can burn from 10%-35% moisture rate
- Boiler range size from 137,000-275,000 BTU
- Powder coated UV resistive finish
- Heat exchange tubes with tabulators
- Unit can remain lit even after many hours of a "no call for heat" situation
- Generates small amount of ash
- Side panels are all removable for easy servicing
- Furnace, weather proof enclosure and buffer tank are insulated
- Front and rear doors equipped with gas shocks to allow for a positive open or close position
- Forklift holes located on the front and side for easy moving
- Stainless steel base allows consumer to set unit on compacted stone or gravel
- Unit can run closed or open
- Turbulator handle for cleaning heat exchange tubes
- Smoke box clean out cover



The Four Stages of the Wood Gasification Process:

Step One- Heating and drying the wood until it releases a gas (hydrogen and carbon-monoxide)

Step Two- Gases in the lower chamber of the unit burn at 2200° Fahrenheit.

Step Three- The flue gasses are transferred to the heat exchanger.

Step Four- The gasses are ejected into the chimney pipe.

A successful indicator of wood gasification is the lack of smoke exiting the chimney.

Specific Furnace Dimensions

Furnace Type	Bio-Hydronix Model	BTU 137	BTU 205	BTU 275
Power range _____	kBTU _____	137	205	275
Weight _____	LB _____	call	call	call
Height _____	Inches _____	84	84	84
Width w/handles _____	Inches _____	47	47	47
Length _____	Inches _____	96	96	96
Chimney Flue dia. _____	Inches _____	8	8	8
Hot water exit dia. _____	Inches _____	1.5	1.5	2
Hot water entry dia. _____	Inches _____	1.5	1.5	2
Connection _____	Type _____	thread	thread	thread
Drain valve Dia. _____	Inches _____	.5	.5	.5
Water capacity _____	Gallons _____	105	127	174
Vol. of loading chamber _____	Gallons _____	49	82	123
Pwr. Consumption _____	watts _____	50	100	100
Moisture of Wood				
Recommended _____	as % _____	15-25	15-25	15-25
Required/acceptable _____	as % _____	10-35	10-35	10-35
Maximum Log Dia. _____	Inches _____	7	7	7
Maximum Log Length _____	Inches _____	20	25	39
Avg. flue gas temp _____	° F _____	340	340	340
Max working pressure _____	PSI _____	25	25	25
Req. Chimney Draft _____	Inches _____	.03-.06	.03-.06	.03-.06
Voltage/frequency _____	V/Hz _____	120/60	120/60	120/60
Buffer tank _____	Gallons _____	80	80	80



Bio-Hydronix™ Gasification Hydronic Wood Furnaces are proudly Manufactured in the United States utilizing a proven gasification process that has been used in Europe for the past two decades.

BIO-HYDRONIX™

Gasification Wood Furnace Pricing

MODEL	SUGGESTED RETAIL
BTU-136	\$ 13,941.00
BTU-205	\$ 16,485.00
BTU-275	\$ 18,055.00

**Pricing does not include shipping
**Prices are subject to change without notice*

CORPORATE OFFICE

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PRODUCTION OFFICE

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Bio-Hydronix™ Wood Gasification Furnaces

features:

*Economical
Smoke Free*

Ecologically Friendly

Can be used in areas where other wood furnaces cannot be used