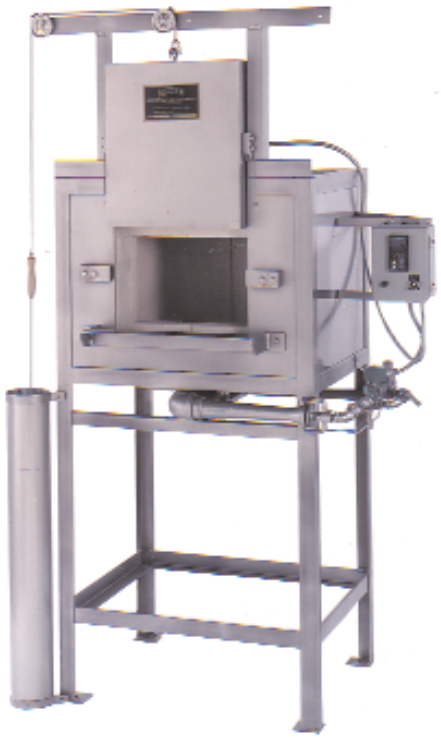
Gas furnaces for heat treating & melting.
Buzzer
Venturi gas burners. Since 1911.

Fire-Box HT Furnace

Charles A. Hones, Inc. 607 Albany Ave. North Amityville, NY 11701 Ph: 631.842.8886 Fax: 631.842.9300



Designed to meet the needs of tool room heat treaters and high temperature precision casters at a competitive price, the versatile Fire-Box HT furnace comes in both 14" wide and 18" wide models rated to 2,150°F. Average time to reach 2,150°F is 60 minutes for model 1414S and 90 minutes for model 1823S.

☛ Constructed of welded steel plate reinforced by a sturdy angle iron frame.

☛ Rated to 2,150°F

☛ Two courses of insulation: 4 1/2 inches of 2,300°F fire-brick backed up by 2 inches of 1,200°F block insulation. Two layer construction provides the efficiency desired by modern manufacturers and still delivers old-fashioned brick walls to stand up to demanding production schedules and tool room environments.

☛ Can be set up to operate on either low pressure natural or propane (LP) gas. Conversion from one type of gas to the other requires only a simple orifice change.

Construction

The high temperature Fire-Box furnace comes standard with our ***Buzzer*** engineered flat style arch, constructed of 4 1/2 inches of 2,300°F firebrick backed up with 2 1/2 inches of 1,600°F castable block insulation. This extra-insulated arch, reinforced with heat resistant stainless steel threaded rods, provides a sturdy, well-insulated industrial design. Our design takes the beneficial insulating value of block insulation and places it on the arch and side walls where it helps reduce heat loss and increase furnace efficiency. Additionally, most threshold and vestibule bricks which surround the door opening are made of heavy duty hardbrick to provide the maximum abrasion resistance available.

Model	Overall dimensions				Door opening		Working area				Approx. shipping weight	Gas connect	BTU's per hour in 1,000's
	Width	Length	Furnace height	Total height	Width	Height	Width	Length	Stacking Height	Height from floor			
1414S	32	27	61	79	14	10	14	14	8	44	905	3/4	115
1414L	32	27	66	89	14	14	14	14	12	44	985	3/4	115
1818S	36	31	61	79	18	10	18	18	8	44	1,075	3/4	120
1818L	36	31	66	89	18	14	18	18	12	44	1,375	1	135
1823S	36	36	61	79	18	10	18	23	8	44	1,200	1	150
1823L	36	36	66	89	18	14	18	23	12	44	1,250	1	155

Please note: all work shelves are 3" deep by width of door opening. Counterweight adds 5 1/2" to width. Overall dimensions do not include controls.

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No blower. No compressed air. Buzzer No complicated piping. Simple.

Hearth plates

Our high temperature Fire-Box oven furnace comes standard with ceramic ribbed hearth plates. Ceramic hearth plates provide excellent heat transfer, stand up well to thermal shock, and are rated for 2,400ºF. Our unique ***Buzzer*** ribbed hearth design allows heat to flow under parts for more efficient heat distribution. The high temperature Fire-Box furnace employs our classic semi-muffle gas fired design. All combustion takes place under the ceramic hearth plates so that only the hot gases and products of combustion come in contact with the work. With this ***Buzzer*** engineered design, there is no direct flame impingement upon the work.

The burner

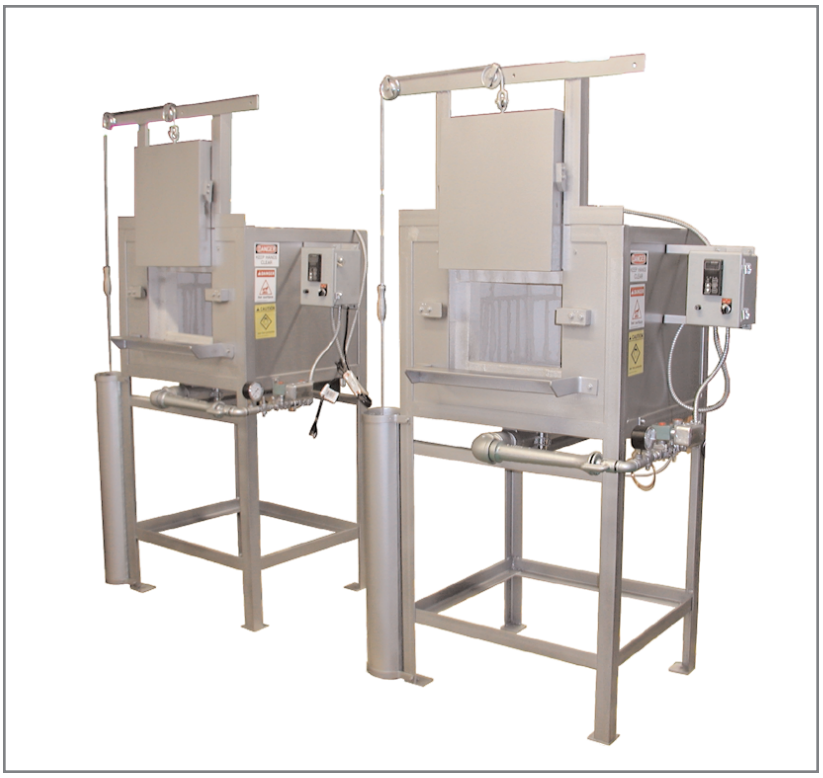
All high temperature Fire-Box furnaces are heated with our simple 57A cast iron burner. The 57A burner is equipped with the ***Buzzer*** Venturi air mixer, made in the USA of class 30 grey cast iron. Engineered for efficiency, our Venturi mixes combustion air at atmospheric pressure for the quickest and hottest flame without a blower.

Applications

The ***Buzzer*** high temperature Fire-Box furnace can be used for applications up to 2,150ºF. The all brick side walls are appropriate for industrial applications which require high strength, durability, and abrasion resistance to stand up against tongs, shanks, and hooks commonly used in both heat treating and investment casting.

- Common heat treating applications include hardening low, medium and high carbon steels and tool steels; annealing; pack carburizing; stress relieving; forging; and pack hardening.

- Special applications include investment casting (platinum or dental), pre-heating, and ceramic/glass work.



Photograph shows two 1414S Fire-Box HT oven furnaces. Furnaces include digital temperature controls and flame safeguard packages and are rated for use up to 2,150ºF.