



Rectangular Pot Furnace

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

The *Buzzer* rectangular pot furnace is designed to meet the industrial needs of both the non-ferrous casting industry (white metal melting) and the heat treating industry (low temperature salt bath). Heavy duty welded steel frame and thorough insulation provide both the efficiency and old-fashioned ruggedness our customers have come to expect from a *Buzzer* engineered furnace.

- Constructed with a thick steel jacket reinforced by a welded angle iron frame.
- Rated for continuous duty to 1,250°F.
- Can be set up to operate on either low pressure natural or propane (LP) gas. Conversion from one fuel to the other requires only a simple orifice change.

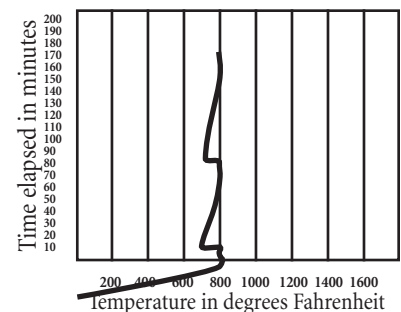


Model	Pot width	Pot depth	Pot length	Cubic footage	Lead capacity (3/4 full)	Tin capacity (3/4 full)	Salt capacity (3/4 full)	BTU's per Hour, in thousands	Melting time, in minutes (est.)
1017-B*	24	24	24		6 ³ / ₄		1,150		200
1016-A	12	24	24	24	8	3,500	2,250	300	175
1016-B	12	12	12	36	12	4,000	2,750	600	355
1016-C	12	12	24	1	500	6,000	4,000	750	400
1016-D	12	12	36	2	1,000	300	90	1,000	600
1018-A	18	18	48	3	1,500	650	175	55	60
1018-B	18	18	18	4	2,000	1,000	250	125	60
1017-A	24	18	36	3 ¹ / ₃	1,700	1,350	375	155	75

Please note: Melting time is approximate as applied to lead and varies according to conditions. Dimensions of pot do not include flange. *Model 1017-B is pictured on the catalog cover. Special electrically heated melters are also available; all electric units require 230v 3-phase power supply.

Temperature curve

Model 1017-A, operating on natural gas at 5" w/c, takes 2 1/2 hours to melt 4,500 lbs. of lead (800°F).

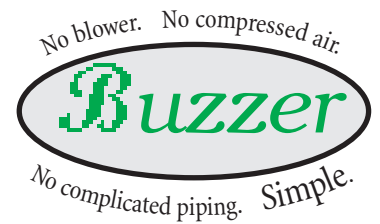


Melt rate

500 lbs. of lead is introduced to the furnace; it becomes a molten heel in 25 minutes. A 2,000-lb. ingot is added, and melts down in approximately 60 minutes. A second 2,000-lb. ingot is added and melts down in an additional 60 minutes. (Furnace is operating at full lead capacity)

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Insulation

Each rectangular pot furnace is thoroughly insulated with 2½ inches of 2,300°F firebrick, individually measured, cut, positioned, and mortared in a staggered design for optimum strength and function.

Pot construction

The rectangular pot furnace comes standard with a ½" thick, double-welded steel pot with extra-wide flange. The extra-wide flange helps prevent fluxes, metals, drosses, scale, salt, debris or boilovers from entering the furnace and clogging flue passageways. For melting zinc-based metals and alloys, the 1018-A (18"W x 18"D x 18"L) is available with a suitable cast iron pot with 1,000 lbs. melting capacity.

The burners All rectangular pot furnaces are heated with our simple **Buzzer** burners. Our burners are designed to hold their own against high radiant heat, as well as demanding production schedules. Depending upon model chosen, burner will be all cast iron, or a precision drilled **Buzzer** pipe burner. The soft "Bunsen blue" flame of our cast iron and steel pipe burners is less likely to cause localized overheating of the welded steel pot.

Applications

-  Recommended for production melting of lead, tin, solder, babbitt, white and soft metals.
-  Widely used for low temperature salt bath work covering heat treating, tempering, stress relieving, quenching, stripping, cleaning and marquenching.

1017-A rectangular melting furnace with back flue and flame safeguard. For use up to 1,250°F.



1017-A welded steel pot. Pot is fabricated of double-welded ½" thick metal. Pot pictured shows optional V-bottom construction. Rated for use up to 1,250°F.

