



Aluminum Pot Furnace

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

Designed to meet the industrial metal melting needs of the non-ferrous casting industry, the aluminum pot furnace melts both aluminum and zinc alloys within cast iron pots. Melting capacities range from 100 to 400 pounds, making these heavy duty furnaces popular in aluminum/zinc sand casting, die casting, and precision casting. The aluminum pot furnace is the Clydesdale work horse of our pot furnace family. The combined heavy duty sectional cast iron construction and the thoroughly insulated body provide both the efficiency and the old-fashioned ruggedness our customers have come to expect from a *Buzzer* engineered furnace.



☛ Constructed of a firebrick insulated heavy gauge rolled steel jacket reinforced by steel threaded rods and extra-thick cast iron top and bottom ring segments.

☛ Rated for continuous duty to 1,650°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.

Insulation

Thoroughly insulated with 4½ inches of 2,300°F firebrick insulation. The AL 400, our largest model, is backed by an additional 2 inches of 1,200°F block insulation. The firebrick is individually measured, cut, positioned, and mortared in a staggered circular design for optimum strength and function.

Pot construction

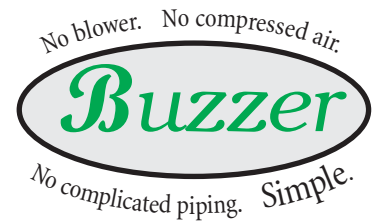
Our aluminum pot furnace comes standard with a cast iron melting pot with extra wide flange. (The cast iron pot will provide best service life when used for melting high temperature aluminum and zinc alloys.) The extra wide flange helps prevent fluxes, metals, drosses, scale or debris from clogging flue passageways.

Model	Height	Width	Pot diam	Pot depth	Zinc capacity in pounds	Aluminum capacity in pounds	Approx. shipping weight	Gas connect	BTU's per hour in 1,000's
AL 100	32	28	15	11	300	100	750	1¼	200
AL 200	38	37	18½	14½	700	200	1,600	2	400
AL 400	40	52	26¾	16¼	1,750	400	2,650	2½	750

Please note: Overall dimensions do not include controls.

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The burners

All aluminum pot furnaces are heated with our Venturi angle burners. Solid cast iron burner construction is designed to provide maximum service life. Even the nozzles and flanges are made of pure cast iron to hold their own against high radiant heat and combustion chamber temperatures, as well as demanding production schedules. Each aluminum pot furnace is heated with four tangentially positioned register burners. The carefully angled positioning limits direct flame impingement and hot spots on the pot. In addition, a softer "Bunsen blue" flame is less likely to cause localized overheating or "cutting" of the pot. **Buzzer** angle burners permit secondary air to come in and around the main burner nozzle, helping to keep it cool and extend its productivity.

Applications

Recommended for production melting of aluminum, zinc, and their alloys.

 Commonly used for die-casting, solid mold casting, sand casting, precision casting, and other speciality casting processes.

 Popular in the non-ferrous casting industry for its husky and solid design.



AL-400, equipped with insulated back flue, spark ignition, and electronic flame safeguards. Furnace comes equipped with a heavy-duty cast iron pot, rated for use up to 1,650°F.