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Thank you!

**CAL-MISER**

**high-efficiency**

**aluminum**

**holding furnace**



**CAL-MISER**

ALUMINUM SYSTEMS, INC.

ALUMINUM SYSTEMS, INC.



# CAL-M

The Cal-Miser holding furnace stands as the most energy efficient available. The new model Cal-Miser holding furnace follows the same basic principles as the original model in efficiency with the least maintenance required plus many other innovative improvements.

Depending on the age of your present equipment, you can expect an energy reduction of up to 75%.

What's more, you can also expect a reduction in scrap plus an improvement in casting quality. Cal-Miser is easy to use with maintenance limited to a once-per-shift inspection and skimming function.

The new S series is even more high-tech and is really a hybrid of earlier models built over the past 15 years. It is covered by the original patent plus other patents pending.

Cal-Miser is available in six standard models from 1600-lb. to 3800-lb. bath sizes to meet the metal requirements of each individual die-casting machine. Special sizes and configurations available for larger equipment.



# SEER

## Highlights:

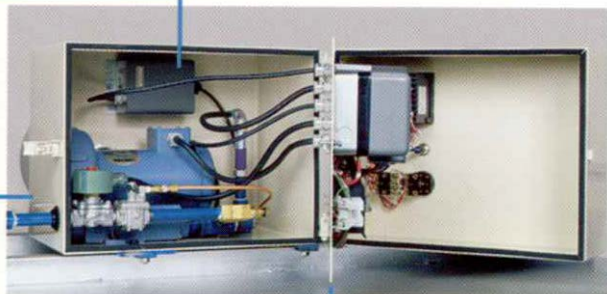
- Highest energy efficiency of any holding furnace
- Designed for die-casting by a die-caster
- Easy operation, low maintenance
- Excellent temperature recovery time

## Features Include:

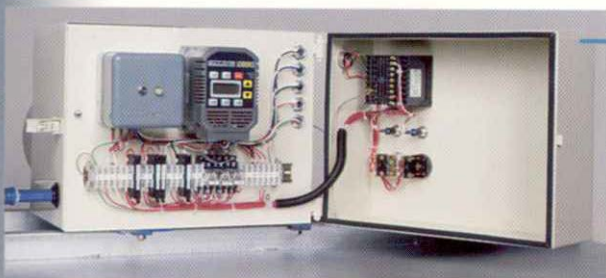
- No wetting of furnace walls and lining with molten aluminum
- No build-up on walls with normal use and attention
- Sufficient power to melt a full charge
- Completely self-contained
- Microprocessor-based technology digital temperature controller
- Easily moved—adjustable height
- Each holder has tapout/drain for easily changing alloys or furnace shutdown
- Entire lining and insulation replaceable at reasonable cost

All mechanical components are mounted inside the cabinet, creating a dust-free environment.

All combustible air intakes through a 2" filter in the rear of the cabinet providing air to cool components before it is consumed.  
*Option: fresh air intake by a 2" hose provided by the customer.*



Electrical mount plate provides an excellent divider between electrical and mechanical components, thus providing cooling for electrical components with the circulation of air behind the mounting plate.



Cal-Miser's unique cabinet design and the use of standard U.S.A. components gives the customer reliability, performance, quality and longevity.

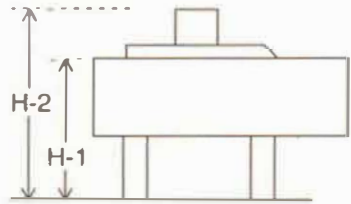
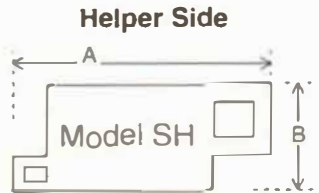
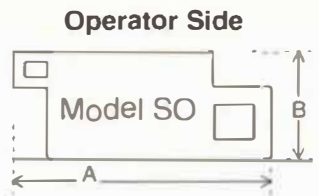
## CAL-MISER HISTORY

Cal-Miser Aluminum Systems was started in 1984 by Andrew Debrey. Mr. Debrey has over 50 years experience in the die-cast industry, being owner of three die-cast plants. Mr. Debrey started building his own furnaces in the early 60's for his own plants, because high-efficiency furnaces were not available. Also, furnace durability and longevity were not acceptable. Mr. Debrey's patented design of impinging the flame directly on the metal transfers heat from its source directly to the metal. This also keeps the heat off the refractory walls and prolongs the life of the furnace—unlike the old reverb furnaces in which the refractory walls were heated to radiate heat to the metal. In short, impinging the flame directly onto the metal gives a high-efficiency and durable furnace that will provide years of maintenance-free production.



# CAL-MISER Series S Standard sizes available

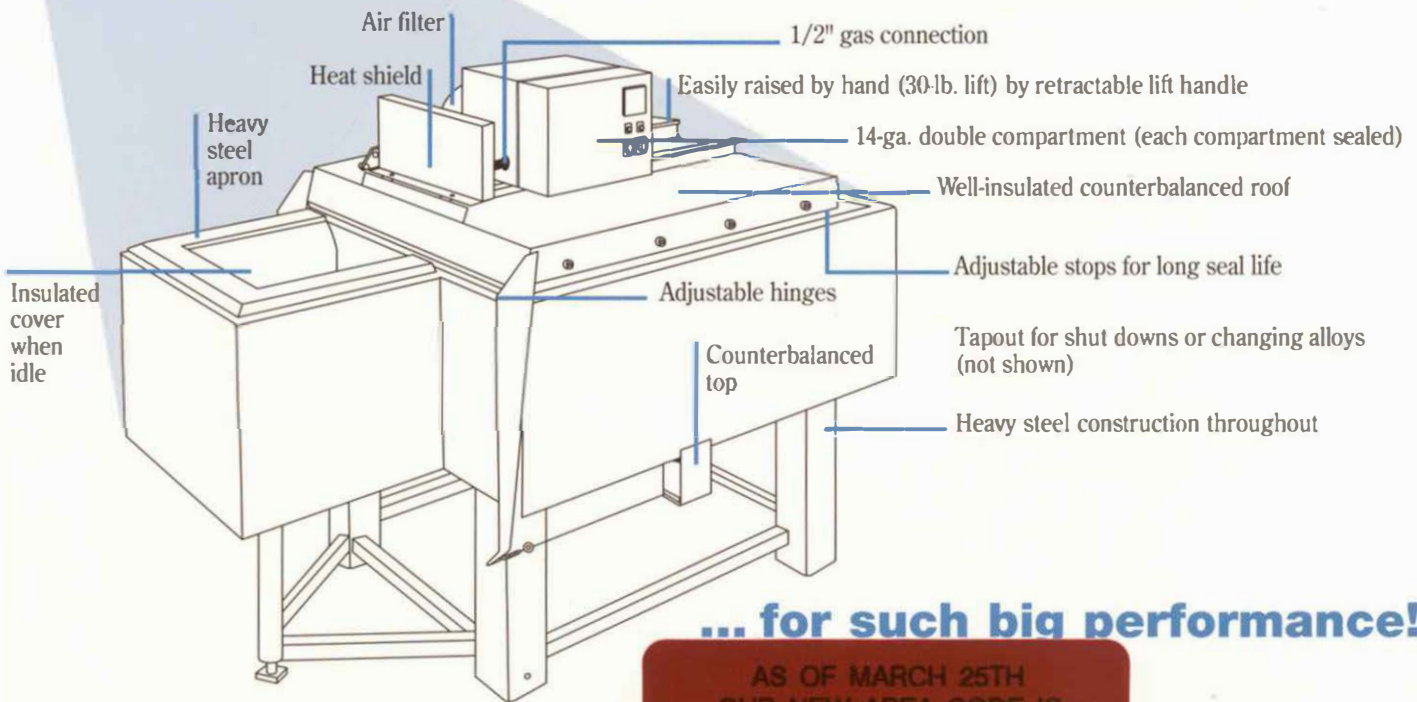
| Model         | Bath      | Dipout Well |       |        | Useable Metal | FOOTPRINT |    |     |     |
|---------------|-----------|-------------|-------|--------|---------------|-----------|----|-----|-----|
|               |           | Depth       | Width | Length |               | A         | B  | H-1 | H-2 |
| <b>SO1600</b> | 1620 lbs. | 12          | x 16  | x 16   | 750           | 83        | 42 | 43  | 70  |
| <b>SH1600</b> | 1620 lbs. |             |       |        | 750           | 83        | 42 | 43  | 70  |
| <b>SO2700</b> | 2850 lbs. | 15          | x 19  | x 19   | 1100          | 90        | 46 | 46  | 73  |
| <b>SH2700</b> | 2850 lbs. |             |       |        | 1100          | 90        | 46 | 46  | 73  |
| <b>SO3800</b> | 3910 lbs. | 18          | x 22  | x 22   | 1400          | 97        | 50 | 49  | 76  |
| <b>SH3800</b> | 3910 lbs. |             |       |        | 1400          | 97        | 50 | 49  | 76  |



COVERED UNDER U.S. PATENT NO. 4358095 — OTHER PATENTS PENDING.

## Such a small footprint...

- Takes up less than 30 sq. ft. floor space
- Under 1/4 kW 120 V. electrical requirement
- Requires 8 oz. natural gas pressure – 1/2" pipe
- 2" diameter filtered or outside air
- 8 x 8 charging wells
- 24" legs with extensions available



... for such big performance!

AS OF MARCH 25TH  
OUR NEW AREA CODE IS  
563

**CAL-MISER**  
ALUMINUM SYSTEMS, INC.

Melting Furnaces    Transfer Bull Ladles    Holding Furnaces

3015 West 73rd St.    Davenport, Iowa 52806  
Phone 319/388-9876    Fax 319/386-4521

