

This Melting and Holding Furnace is designed for continuous operation and is suitable for aluminium die-casting and aluminium casting industries.

Equipped with "Super Low Speed Luminous Flame Burners" in the Melting Chamber and electric heaters in the Holding Chamber, it performs better than conventional furnaces by offering good temperature uniformity of molten metal coupled with excellent energy savings.

Some of the remarkable characteristics of the furnace include:-

1. SUPERIOR ALUMINIUM MELT QUALITY

Special luminous flame burners carefully selected by **DAIKI** ensures that hard spot formation and gas absorption problems are minimal. This translates into higher quality melts as molten metal that flows into the Holding Chamber has very little oxidation.

2. NO HARD OXIDATION MATERIAL

With excellent furnace design and temperature control, the temperature in the Holding Chamber is kept at about 50 degrees Celsius higher than that of the molten metal. As such, the customer will not experience the nightmare of having to remove hard oxidation material caused by overtemperature conditions.

3. LOW ENERGY COST

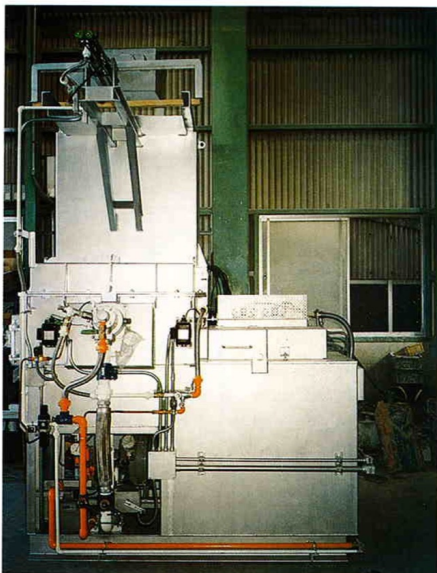
Compared to furnaces built by other makers, it is possible to save up to 70% of the energy for equipment of this design.

4. ALUMINIUM ALLOY CASTING

This furnace can be attached to degassing equipment such as a Rotating Degasser as well as an L-type Lance, used in aluminium alloy casting works.

5. LONG HEATER LIFE

The life of the heater is prolonged by using ceramic tubes made of high tech ceramics.



6. LOW MAINTENANCE COST AND SMALL SPACE UTILIZATION

Built for rugged operations, the cost of maintaining the furnace is low. The space required by this furnace is only 70% of that of conventional burner-type design.

7. SUPERB WORKING ENVIRONMENT

The temperature of the furnace vicinity is only about 20 degrees Celsius higher than that room temperature. As such, the task of removing dross at close distances to the furnace is pleasant.

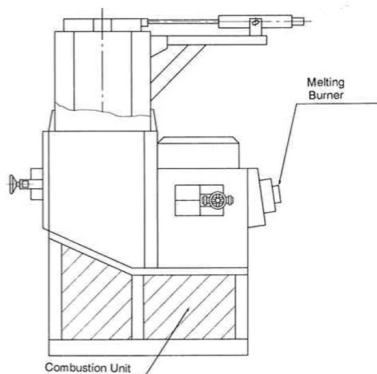
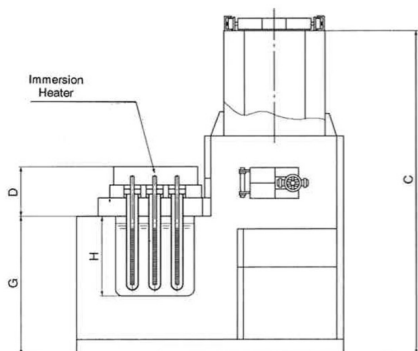
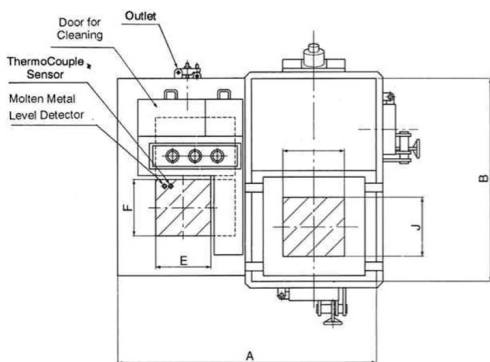
8. CHOICE OF FUELS

The furnace can be designed to run on the following fuels:- Town/City Gas, Natural Gas, Propane Gas, Butane Gas, Heavy Oil Grades A and B, Light Fuel Oil, Kerosene, etc.

SEH Model Furnace Specification

| | SEH-100 | SEH-150 | SEH-200 | SEH-250 | SEH-300 | SEH-400 | SEH-500 |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Melt. rate (kg/Hr) | 100 | 150 | 200 | 250 | 300 | 400 | 500 |
| Holding Cap. (kg) | 250 | 380 | 480 | 580 | 700 | 850 | 1050 |
| Melt. Burner Cap. (Kcal/Hr) | 80,000 | 80,000 | 120,000 | 120,000 | 150,000 | 200,000 | 300,000 |
| Heater Cap. (kw x No. of Pcs) | 5 x 2 | 9 x 2 | 9 x 3 | 9 x 3 | 9 x 3 | 10 x 3 | 10 x 3 |





* Dimension can be changed to suit customer site condition

SEH Furnace Dimensions

| | SER-100 | SER-150 | SER-200 | SER-250 | SER-300 | SEH-400 | SEH-500 |
|---|---------|---------|---------|---------|---------|---------|---------|
| A | 1560 | 1760 | 2120 | 2100 | 2200 | 2320 | 2370 |
| B | 1300 | 1400 | 1630 | 1630 | 1660 | 1750 | 1840 |
| C | 2250 | 2400 | 2600 | 2600 | 2800 | 3000 | 3400 |
| D | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| E | 400 | 400 | 450 | 450 | 500 | 550 | 550 |
| F | 400 | 400 | 450 | 450 | 500 | 550 | 550 |
| G | 930 | 1000 | 1100 | 1100 | 1100 | 1100 | 1100 |
| H | 400 | 400 | 450 | 450 | 500 | 550 | 550 |
| I | 500 | 500 | 500 | 570 | 610 | 650 | 700 |
| J | 480 | 480 | 470 | 500 | 500 | 600 | 600 |



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