



Furnaces

Small Bench Top • 100 to 1200°C

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LOCATIONS

WEST COAST

718 N. Fries Avenue

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EAST COAST

3740 NW 124th Ave

Coral Springs, FL 33065



Description:

Ceramic fiber insulation permits faster heat-up and reduces energy consumption. Embedded heating element on top and both sides improve temperature uniformity. Drop-down door doubles as a convenient shelf for loading and unloading. All models shipped complete with power cord.

Operation – Digital single set point control. A single display shows actual temperature or set point.

Safety – Door safety switch protects operator by removing power to the heating elements upon opening the door.

Thermocouple break protection cuts power to the heating elements and prevents a thermocouple failure runaway condition. The rear of the chamber incorporates a 0.38" (0.95 cm) diameter port for monitoring chamber temperatures with independent measuring devices.

Applications:

Ashing most types of organic, inorganic samples

Heat treating small steel parts

Ignition tests

Gravimetric analysis

Determination of volatile and suspended solids.

Fire Assay Furnaces

Description:

These Furnace Industries cupellation furnaces are available in LPG, natural gas, diesel or electric power. Furnaces are available to meet the assay needs of your laboratory, whether only a few cupellations or hundreds are required daily.

All units come with automatic electronic temperature controllers and a 7-day timer.

Electronic furnaces use silicon carbide elements.

Contact Sepor with your specific requirements and we can recommend the right furnace to fit your needs.



DFC Model 802 Electric Cupellation Furnace



Catalog Number | 090D-001

- – 136 cubic inch capacity
- – 1200°C max. temperature
- – Durable fire brick insulation surrounds the opening

Description:

The DFC Model 802 Electric Cupellation Furnace is the workhorse of the fire assay laboratory. Thousands of these furnaces are in use throughout the world. Some of the key features are:

- 7 day auto-timer control with manual override
- silicon carbide heating elements with access through side panels for easy replacement
- spring assist lift type door with integral fume hood
- dampered exhaust flue pre-installed and ready to connect to onsite exhaust system.

Optional equipment may include electrical operation for 50 Hz, Idle (overnight) temperature set back controller/timer, or floor stand.

Catalog Number	Working Space	Outside Dims	Capacity Cupels	Operating Temp °F	Power Requirements	Shipping Weight
090F-009	14" x 12" x 4"	36" x 32" x 34"	48 ea., 1-1/2"	0-2000	4 KVA, 60 Hz, 120, 208, 240, 480 V/ 1 Ph	1,350 lbs.

DFC MODEL 810B ELECTRIC ASSAY FURNACE



Description:

The DFC Model 810 Electric Assay Furnace has been the preferred fusion furnace around the world for years. It has a capacity of 28 twenty-gram crucibles, or 25 thirty-gram crucibles. They feature high density alumina vibro-cast refractory lining, heavy cross section nichrome hairpin heating elements and strong ductile nickel iron lined element connecting clamps, integral fume hood and ventilation dampered and ready to connect to an exhaust system and a silicon carbide hearth plate.

Other options available include a guillotine door, overnight 'idle' temperature and a semi-muffle to reduce chamber volume.

Catalog Number	Working Space	Outside Dims	Capacity Crucibles	Operating Temp °F	Power Requirements	Shipping Weight
090F-001 090F-002	16-3/4" x 25-1/4" x 8-1/2"	38" x 39- 1/2" x 74- 1/8"	28, 20 gm	0-2000	21 KVA, 60 Hz, 208, 220, 240, 440, 480 V 0.6 KVA 115 V/ 1 Ph	2,600 Lbs.

DFC MODEL 815 ELECTRIC ASSAY FURNACE



Description:

The DFC Model 815 Electric Assay Furnace can be utilized as both fusion and cupellation furnace. It incorporates silicon carbide heating elements with a silicon carbide semi-muffle. It has a swing-away plug type door that ensures tight temperature controls. It has a 7-day timer control and overnight 'idle' temperature features. A full width fume hood is connected to the dampered exhaust system for control of hazardous fumes.

Catalog No.	Working Space	Outside Dims	Capacity Crucibles	Operating (°F)	Shipping Weight
090F-007	16-3/4" x 25" x 9"	45-1/2" x 43-1/2" x 74"	28 20 grams	2,950	1900

Electric Economy Assay Furnace



Description:

This series of electric assay furnaces is capable of operating up to 2,300 F (1,260 C). They have a single set point digital display controller, a heat indicating pyrometer with infinite switches, standard left-hand open-door design, 6 foot power cord and a hearth plate.

An optional fume ventilation hood (not shown in photo) is also available. These furnaces are constructed to meet quality standards, insure firing efficiency and reliability. The furnaces include a stainless-steel case with heavy duty angle iron frame, interior walls of 2,300 degree F insulating fire brick, 2,000 degree F back-up insulation, Kanthal heating elements, plug type door, solid arch plate to prevent brick dust from contaminating material being heated and efficient fast firing at a low amperage.

The standard electrical configuration is for 240 V/3 Ph/60 Hz. However, for the small furnaces, 120V/1 Ph/60 Hz operation is available. The furnaces are also available for 220V/3 Ph/ 50 Hz operation. Optional ventilation hood is available.

Catalog Number	Inside Dims (W x D x H)	Outside Dims (W x D x H)	Cubic Feet	Weight (lbs.)	Volts	Amps	Watts
090F-025	9" x 10" x 6.5"	17" x 19" x 23"	0.34	95	240	15	1800
090F-026	9" x 10" x 6.5"	17" x 19" x 23"	0.34	95	120	15	1800
090F-027	12" x 12" x 8"	20" x 21" x 24"	0.75	140	240	20	3600
090F-028	16" x 16" x 11"	24" x 25" x 27"	1.4	190	240	20	4800
090F-110	24" x 24" x 30"	42" x 34" x 58"	10	850	240	65	15600
090F-050	VENT			15			

Electric Economy Melting Furnace



Description:

This series of electric tilting furnaces is used for smelting gold, silver, copper and base alloys and pouring into ingots. Each furnace has a silicon carbide pouring crucible with extended lip, single set point digital temperature controller with LED readout, hand operated breaking winch for precise tilting and pouring, vented lid with latch, Thermal Ceramic K23 insulating brick lining, 2" mineral wool insulation, sturdy structural steel frame and stainless-steel case. Furnaces are capable of operating up to 2,300F (1,260C).

They have a rugged yet light weight construction for long life, a vented lid which latches in up position, a heavy wall clay graphite crucible with spout, and insulating brick lining for maximum heat retention. A Braking Winch allows for precise pouring and provides safe movement during pour.

Catalog Number	Description	Max Temp (F)	Red Brass (lbs)	Ship Weight
090H-050	Tilting Furnace 16	2300F	70 lbs.	300 lbs.
090H-020	Tilting Furnace 60	2300F	200 lbs.	500 lbs.
090H-021	Tilting Furnace 150	2300F	450 lbs.	700 lbs.
090H-022	Tilting Furnace 225	2300F	700 lbs.	900 lbs.
090H-023	Tilting Furnace 300	2300F	900 lbs.	1000 lbs.
090H-055	Tilting Furnace 400	2300F	1,200 lbs.	1200 lbs.