



SCF SERIES HIGH TEMPERATURE FURNACES MODELS FOR USE UP TO 1600°C

Silicon Carbide electric heating elements for high temperature operation. Rugged, heavy duty design for trouble free use in production and laboratory applications. Ideal for processing porcelains, technical ceramics, glass, and refractory materials when dependable precision is required.

SCF Furnaces built to industrial quality standards are available in sizes from 28 to 566 liters. Optional features include air preheating, fan cooling and atmosphere control for special requirements such as binder burn-out and sintering.



STANDARD FEATURES: 1400°C, 1500°C and 1600°C Models

- Extra heavy duty welded steel shell finished with heat resistant enamel paint and COOL SKIN® double wall sidewalls that minimize exterior surface temperatures.
- Parallel swing heat seal door fabricated of steel plate, pivot counter balanced to open and close easily with four adjustable door clamps.
- Energy efficient multilayered graded lining of ceramic fiber board amply rated for the hot face temperature backed up with low thermal mass ceramic insulation.
- Silicon carbide heating elements are low watt loaded designs arranged on the interior sidewalls to provide uniform heating and long service life.
- Temperature control is microprocessor programmable with SCR power regulation to precisely control heat-up rate and set point.
- A duplex type R(PtRh-Pt) thermocouple is provided for operation control and over-temperature limit safety shut-down.
- Electrical components are UL/FM listed and include a main control panel safety circuit breaker. The entire system meets applicable NFPA, NEC and CE directives and is completely wired ready for operation after connection to the required electrical service. An instruction manual is supplied.



Optional Features

- Variable air flow rate fans to automatically program control pre-selected binder burnout and cooling rate gradients.
- Air pre-heaters provide uniform convection heating to enable de-binding and sintering in one cycle.
- Custom sizes, temperature ratings, exhaust systems, HMI PC process controls.

Specifications

	UNIQUE/PERENY		SCF Series Kilns (1600°C / 2912°F)		
Model No.	Capacity Liters	Chamber Size W x D x H	Overall Size W x D x H	Electrical Rating Volts-Ph/Amps/Kw	Weight Kg
SCF-1	28.0	305x305x305mm	788x788x1651mm	240-1/35/8	318.18
SCF-2	42.0	355x355x457mm	864x864x1651mm	240-1/50/12	454.55
SCF-3	100.0	457x457x457mm	965x965x1651mm	240-1/68/16	636.36
SCF-4	127.0	457x457x610mm	965x965x1753mm	240-1/85/20	818.18
SCF-6	184.0	508x508x711mm	1016x1016x1753mm	240-1/110/26	1000.00
SCF-8	227.0	610x610x610mm	1422x1118x1753mm	240-3/74/30	1136.36
SCF-10	283.0	610x610x762mm	1422x1118x1753mm	240-3/82/34	1363.64
SCF-12	340.0	610x610x915mm	1422x1118x1753mm	240-3/88/36	1545.45
SCF-16	453.0	711x711x915mm	1524x1219x1753mm	240-3/102/42	1818.18
SCF-20	566.0	915x711x915mm	1524x1219x1753mm	240-3/116/48	2727.27

*Specifications are approximate and subject to change without notice.



Insulating Fire Brick (IFB) Lining



Heavy Duty Double Hinged Door

FURNACES • KILNS • DRYERS • COATERS

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