



UPK SERIES ELECTRIC CARBOTTOM / BOGIE HEARTH FURNACES MODELS FOR USE UP TO 1400°C

These Electric heated CarBottom / Bogie Hearth Furnaces have moveable hearths which are loaded and unloaded outside the furnace chamber. All sides of the hearth are readily accessible for loading by several people or by material handling equipment for heavy workloads.

UPK Series furnaces are available with one or more cars or bogie hearths. This allows the furnace to be firing one bogie while another is being loaded. Residual heat in the furnace can be utilized for more rapid cycling.

STANDARD FEATURES: 1000°C, 1340°C and 1400°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, balanced to open and close easily with a steer-able bogie on rubber wheels.
- Energy efficient multilayered graded lining of ceramic insulation amply rated for the hot face temperature backed up with low thermal mass ceramic insulation.
- Electric heating elements distributed on the interior sidewalls provide uniform heating and long service life.
- Temperature control is programmable with SCR power regulation to precisely control heat-up rate and set point with roof dampers that enable rapid cooling.
- A duplex type R(PtRh-Pt) thermocouple is provided for operation control and over-temperature limit safety shut-down.
- Electrical components include a door safety switch, and 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

- Silicon Carbide wear resistant hearth plates.
- Vertical lift door with safety interlock to bogie hearth.
- Carbottom / Bogie Hearth with steel wheels on rails.
- Variable air flow rate fans to automatically program control pre-selected binder burnout and forced 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		UPK Series Furnaces		
Model No.	Capacity Liters	Chamber Size W x D x H	Overall Size W x D x H	Electrical Rating Kw	Weight Kg
UPK-35	1000	800x1600x800mm	1400x2450x1900mm	36	2700
UPK-53	1500	900x1900x900mm	1500x2750x2000mm	51	3000
UPK-78	2200	1000x2200x1000mm	1600x3050x2150mm	69	3500
UPK-117	3300	1000x2800x1200mm	1600x3650x2350mm	99	4800
UPK-176	5000	1000x3600x1400mm	1600x4450x2550mm	126	6800
UPK-265	7500	1000x5400x1400mm	1600x6250x2550mm	168	9100

*Specifications are approximate and subject to change without notice.
(Add Suffix: i.e. G = 900°C , G = 1340°C , G = 1400°C)



Insulating Fire Brick (IFB) Lining



High Product Density Loading Capability

FURNACES • KILNS • DRYERS • COATERS

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