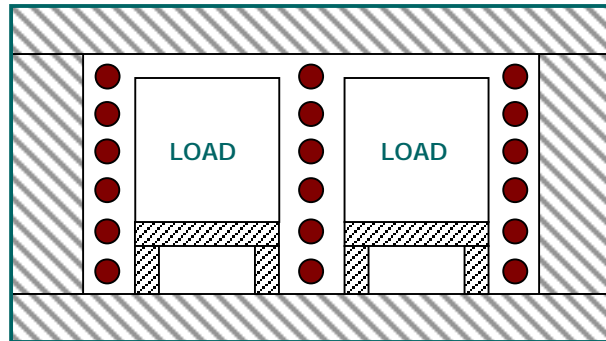


Multi-Stack Bottom Loading Furnaces



Keith multi-stack furnaces provide exceptional temperature uniformity during heating and cooling for processes that require precise temperature control to 1565°C/2850°F.

The load is divided into multiple stacks separated by heating elements in the furnace chamber. This design has proven to be highly effective for firing advanced ceramics, electronic components, nanomaterials, and a wide range of temperature-sensitive products.



STANDARD FURNACE SPECIFICATIONS

MODEL	RATING	STACKS	LOAD SIZE PER STACK			OUTSIDE DIMENSIONS			STANDARD	CONNECTED
			W	H	D	W	H	D	VOLTAGE	POWER
KECG (2-10) 14 14 2750	2750°F	2	10"	14"	14"	50"	92"	36"	480 V / 3 PH	18 kW
KECG (2-12) 18 24 2750	2750°F	2	12"	18"	24"	58"	106"	48"	480 V / 3 PH	42 kW
KECG (3-12) 18 24 2750	2750°F	3	12"	18"	24"	76"	112"	48"	480 V / 3 PH	60 kW
KECG (3-12) 18 36 2750	2750°F	3	12"	18"	36"	76"	112"	64"	480 V / 3 PH	78 kW

Larger custom sizes, different hearth configurations, and higher temperature ratings are also available.

Outside dimensions do not include track for cars or control panel (if applicable)
All specifications are subject to change without notice.

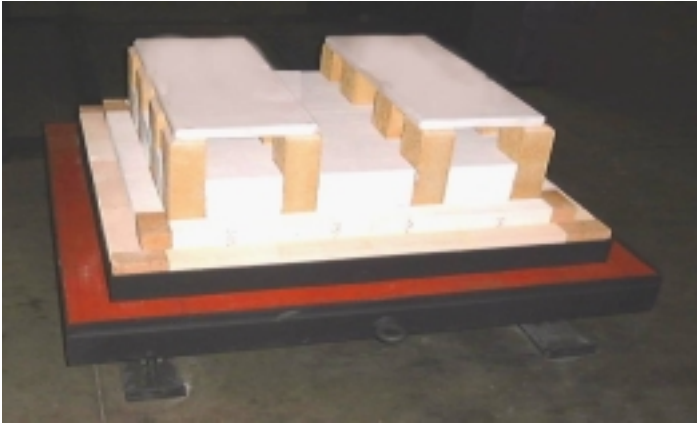
DESIGN BENEFITS

- Energy efficient and durable ceramic fiber insulation system
- Exceptional temperature uniformity for dense loads
- Precise control of heating and cooling rates throughout load
- Cars on wheels and rail to facilitate loading/unloading
- Smooth, trouble-free electromechanical elevator mechanism
- Automatic damper system for venting process volatiles
- Forced air and convective cooling systems are available
- Highly reliable automatic process control systems
- Ease of operation and maintenance
- Built-to-order sizes and configurations are also available



GENERAL CONSTRUCTION

Multi-stack furnaces are primarily insulated with high quality, low mass ceramic fiber insulation for energy efficiency and improved heating/cooling control. Two load cars are supplied that roll on track extending on two opposing sides when the elevator is fully lowered. The cars are raised and lowered on a heavy-duty motor driven electrically operated lifting mechanism.



HEATING AND COOLING SYSTEMS

In addition to dividing the load with heating elements between stacks, temperature is often controlled using vertical control zones as well. This is particularly useful for processes that require rapid and uniform heating and cooling. A variety of optional forced and controlled draft air-cooling systems are available that deliver precise and repeatable performance.



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AUTOMATED FURNACE CONTROL

Digital process controls are standard on all Keith furnaces. Everything from programmable heating and cooling, venting of process volatiles, and all safety logic is managed automatically using the latest control technology. Integrated communications with a remote supervisory workstation and data logging are popular options.



QUALITY YOU CAN DEPEND ON

Maximum product quality and yield, lower energy costs, more effective use of manpower, and dependability are benefits you will receive from your Keith multi-stack furnace. We use only the best materials, combined with intelligent design and durable, attractive construction. Choosing a furnace with known reliability and quality now will result in fewer problems in future years.

SERVICE

Outstanding service begins the first time you contact **Keith** and continues for as long as you own your equipment. We make a point of responding quickly to your questions with reliable technical information. Our field service engineers are ready to help your installation and start-up go smoothly and quickly.

Your success is our goal!

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