

Bench Top Assaying Ovens & Furnace Models



K-121220-AB shown with PM4E PID temperature controller, embedded ceramic heating elements

Like its two counter parts – the Keith Bench Top Hardening Furnace & the Keith Bench Top Annealing Furnace – the Keith Standard 2250F Rated Bench Top Assaying Furnace comes in a variety of model sizes and configurations. These assaying furnaces are used primarily for heat treating metal, precious metal melting and assaying as well as all types of testing.

The special features of these assaying furnaces are resistance coil wire elements protected by high temperature embedding cement and a clear air exhaust system located on the back of the furnace. Additional options include a microprocessor-based controller, a porcelain hearth plate, heavy gauge sheet steel furnace case, finest quality insulating fire brick backed up by 1800F fiber board insulation, door safety switches, and counter balanced vertical rising doors designed to keep the hot face away from the operator. These are only a few of the special features of our bench top assaying furnaces.



K-121220-AB with exhaust fan

The Keith 2250F Bench Top Assaying Furnaces come in a variety of model sizes and configurations with an array of options including quench tank, digital recorder for data capture, furnace bench stands, crucibles & kiln furniture – just to name a few.

Standard features included in base package:

- Rated for 2250°F temperature
- 240 Volts, single phase, 60 Hz
- PID temperature controller Watlow [PM3E](#) with one temperature set point
- (1) type K thermocouple
- Fire brick with easy to change resistance wire heating elements
- Vertical rising counter balanced door keeps hot face away from operator (safety)
- Door safety switches disconnect power to heating elements when door is opened
- Door with ceramic fiber rope seal for better temperature uniformity
- Variety of options available to better meet your specific heat processing requirements
- Exhaust fan

Options, Accessories & Spare Parts:

- PID temperature controller Watlow [PM4E](#) (4 programs, 10 steps, timer)
- PID temperature controller Watlow [F4](#) (40 programs, 256 steps, timer)
- Other PID controllers upon request; please specify (Eurotherm, West, etc.)

- High limit/over temperature protection (includes controller and thermocouple)
- Honeywell eZtrend Recorder for data collection and transfer
- Electrical other than standard 240 Volt, single phase, 60 Hz
- Steel Bench Top furnace stand
- Viewing port
- Stainless Steel Exhaust Hood with mounting brackets
- 2-inch stainless steel inert gas inlet port
- Ceramic cement embedded element plate assemblies for heating element protection
- Spare parts package for installation of new furnaces
- AMS 2750 / NADCAP package



Watlow PID Controller



Eurotherm 2404 Controller



West 4400 Controller



Honeywell Recorder



Exhaust hood



Wire Element Plate



Furnace Stand

Spare and replacement parts:

- Resistance coil wire elements and coil wire element plate assemblies
- Thermocouples
- Furnace and Kiln furniture
- Crucibles for metal and glass melting
- Stainless steel heat treat tool wrap to minimize oxidation of ferrous metals during heating



Thermocouples



Stainless steel tool wrap



Furnace & Kiln Furniture



Alumina crucibles

List of our standard models

Custom sizes are available to fit your application. Please request a quote by phone or email and we will provide additional information.

Keith Model #	Chamber Size W	Chamber Size L	Chamber Size H	Overall Size W	Overall Size L	Overall Size H	Max intermittent Temperature	Max continuous Temperature	KW Input	Weight Lbs.
K-110813-AB	11"	13"	8"	23.5"	38"	27"	2250° F	2000° F	3.8	200
K-120820-AB	12"	20"	8"	25"	40"	28"	2250° F	2000° F	6.25	300
K-120832-AB	12"	32"	8"	25"	52"	28"	2250° F	2000° F	6.25	350
K-121220-AB	12"	20"	12"	25"	40"	32"	2250° F	2000° F	6.25	450
K-161020-AB	16"	20"	10"	29"	40"	31"	2250° F	2000° F	9.4	400
K-161220-AB	16"	20"	12"	29"	40"	33"	2250° F	2000° F	9.4	550
K-161032-AB	16"	32"	10"	29"	52"	31"	2250° F	2000° F	12.5	500
K-161232-AB	16"	32"	12"	29"	52"	33"	2250° F	2000° F	12.5	550

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