

Bench Top Tempering Ovens & Furnace Models



K-120820-DW shown with PM3E PID temperature controller, ceramic heating elements & fan

The Keith Standard 1250F Rated Bench Top [Tempering Furnace](#) has become the industry standard for general use in the shop, laboratory or factory where temperatures between 300°F – 1250°F ±10°F are required. These furnaces are alternatively called table top annealing furnaces, single chamber drawing furnaces, stress relieving furnaces and forced convection ovens.

Similar to the Keith 2250F [Bench Top Hardening Furnaces](#), the Keith Bench top annealing furnaces come in a variety of model sizes and configurations with a various options available including a 2000F temperature upgrade package, viewing port, digital recorder for data capture, furnace bench stands and special controls – just to name a few.

Every Keith bench top drawing furnace is produced with a microprocessor-based controller, easy to change alloy wire elements, 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 just a few of the specifications and features of our single chamber bench top annealing furnaces.

Standard features included in base package:

- Rated for 1250°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

Options, Accessories & Spare Parts:

- Upgrade to 2000°F maximum temperature package
- 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
- Roll away quench tank
- 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



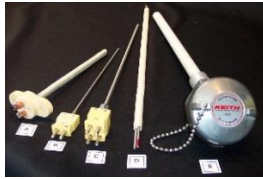
Roll away quench tank



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 also 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-120820-DW	12"	17"	8"	25"	43"	28"	1250° F	1000° F	4.3	400
K-120832-DW	12"	29"	8"	25"	54"	28"	1250° F	1000° F	6.8	500
K-120840-DW	12"	37"	8"	25"	65"	28"	1250° F	1000° F	6.8	600
K-121220-DW	12"	17"	12"	25"	43"	32"	1250° F	1000° F	4.3	550
K-161020-DW	16"	17"	10"	29"	43"	31"	1250° F	1000° F	6.2	500
K-161220-DW	16"	17"	12"	29"	43"	31"	1250° F	1000° F	6.2	650
K-161032-DW	16"	29"	10"	29"	54"	31"	1250° F	1000° F	8.1	600

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