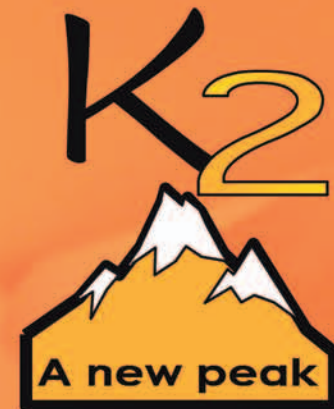


Performance reaches a new peak



5 samples

all electric, fully automatic



203 Norcross Avenue • Metuchen, NJ 08840
Phone: 800.LAB.SPEX • Fax: 732.906.2492
E-mail: sampleprep@spexcsp.com Web: www.spexcsp.com



Accuracy – You get the best results possible

- ❑ Entirely automated.
- ❑ Fully reproducible fusion methods.
- ❑ Perfect reproducibility using a closed electric oven: all crucibles and molds are exactly at the same temperature.
- ❑ Real-time temperature display.

Safety – You can work at ease

- ❑ No gases used, so no post-combustion toxic products released.
- ❑ Minimal heat dissipation; no need for a powerful vent hood.

Versatility – You can fuse them all

- ❑ XRF, AA and ICP fusion machine: disk and solution units are integrated. Can also readily do peroxide or pyrosulfate fusions.
- ❑ Ready to fuse with built-in methods for oxides, minerals, metals, alloys, sulfides, fluorides and more.
- ❑ Can perform solid oxidations.
- ❑ Fully customizable fusion methods.

Productivity – You save time and money

- ❑ Simultaneous processing of up to five (5) samples.
- ❑ Throughput of 20 to 25 samples/hour.

Simplicity – You do not hesitate anymore

- ❑ A simple, intelligent, high-performance furnace.
- ❑ Intuitive, multilingual text interface, including real-time temperature display.
- ❑ Virtually maintenance-free; easy component access.
- ❑ 2-year limited warranty.



Technical information:

- Voltages:** 220-240 VAC (50-60 Hz)
- Power (max):** 3000 W
- Height:** 48 cm [19"]
- Width:** 91 cm [36"]
- Depth:** 48 cm [19"]
- Mass:** 43 kg [95 lbs]



Method comparison



Gas disadvantages

- Safety issues: hot flames, risks of intoxication or explosion
- Poor temperature control
- Affected by altitude
- Strong vent hood and custom gas piping required



Pressed pellets deficiencies

- Low precision and accuracy: mineralogical effects, particle size effects, low homogeneity
- Synthetic standards are hard to make
- Mathematical corrections for matrix effects are not applicable



Magnetic induction shortcomings

- High energy costs
- Fluid coolant required



Digesters and microwaves flaws

- Lower precision and accuracy due to incomplete dissolution of the sample
- Very long preparation time for many sample types