Raicol furnaces for LPE growth

For over 30 years, Raicol has built its own platinum-crucible, flux-growth stations to grow the world's leading nonlinear optical crystals. That same engineering is now offered as a dedicated Liquid Phase Epitaxy (LPE) growth station for your lab.

Advantages

- **Purpose-built for LPE**
  Designed specifically for the Liquid Phase Epitaxy process - not a general-purpose furnace repurposed.
- **30+ years of pedigree**
  Based on three decades of in-house growth-station engineering behind Raicol's own world-leading crystals.
- **Easy to use**
  Straightforward setup and day-to-day operation, so your team is productive quickly.
- **Dual-zone thermal control**
  Two independently controlled heating zones for fine adjustment of the axial temperature gradient across the growth region.
- **Accurate & reliable**
  Precise, dependable operation built for repeatable results, run after run.
- **Low-power, single-phase**
  Just 2.4 kW on standard 110/240 V single-phase - low power consumption that lets you run multiple stations in parallel with minimal infrastructure.
- **Smaller than the competition**
  A more compact footprint than competing systems - fit more furnaces into the same floor space.
- **Scales to 5" growth**
  A 190 mm internal bore supports LPE growth up to 5 inches.

Typical Specifications for LPE growth

Power Supply	110 / 240 V, single-phase
Power Consumption	2.4 kW
Internal Bore	190 mm (≈ 7.5 in)
Heating Zones	2 (dual-zone); custom multi-zone configurations available on request
Max. Temperature	1100 °C
Growth Capacity	up to 5" LPE
Physical Dimensions (W×D×H)	73 cm x 107 cm x 198 cm

Raicol Crystals, founded in 1995, is a global leader in nonlinear and EO crystal growth, fabrication, and assembly. Raicol offers a unique set of benefits to its customers:

- 50 years of experience in crystal growth
- Global pioneers of RTP, HGTR KTP, and PPKTP crystal growth and assembly
- A one-stop-shop, from crystal growth through to coating and EO cell assembly
- Mass production and small R&D volume capabilities
- Fast delivery times
- Unmatched crystal quality