

The Rapidia sintering furnace is fully automated, easy to install, safe, and user friendly. It operates on 220 to 240 VAC single phase and plugs into a standard NEMA 60A outlet. A retort made of thick refractory metal guarantees temperature uniformity over the full temperature range. The furnace can be connected to the internet for remote monitoring, diagnostics and software updates, but the recommended interface is via the built-in USB port. All software required for operation comes pre-loaded into the furnace. Besides sintering 3D printed parts, the furnace can be used for heat treatment, hydrogen brazing, bright annealing and many other metalworking applications.

Atmosphere	Forming gas (3% H ₂ in Ar). Other gases possible.
Max heat load	14,000 BTU/hr
Max temperature	1400 °C (2550 °F)
Retort	Carbon-free, full refractory metal retort
Inside dimensions	235 mm in diameter by 400 mm long (9.25" x 15.75")
Trays	Single and optional stacking multi-level refractory metal trays
Outside dimensions	78 cm wide x 105 cm deep x 188 cm tall (30.5" x 41" x 74")
Weight	500 kg (1100 lbs)
Minimum room height	240 cm (96")
Power requirement	220-240 VAC, 50/60 Hz, single phase 48 A Supplied with NEMA 14-60 plug Furnace requires a dedicated breaker
Ventilation	Single ½" plastic tubing vented to outside, push-to-connect fitting
Control	10" touch screen
Safety Features	Thermal interlocks Over-temperature protection Monitoring of remaining forming gas in cylinder
Regulatory approval	All line voltage electrical components used are UL listed Furnaces are inspected by an NRTL, such as UL