

Infinity ZR Sintering Furnace

Set-Up Instructions

PLACING THE FURNACE

Place the Furnace on a **non-flammable**, level surface capable of supporting 200Lb/ 90Kg. The surface should be high enough to allow easy access to the muffle cavity for loading and unloading the muffle. **Leave at least 12"/31cm unobstructed air space around all sides and the rear of the furnace for ventilation. Make sure that there is at least 36"/92cm free air space above the top of the Furnace cabinet for ventilation. The Infinity ZR Oven should not be placed in such a way as to obstruct access to the AC Mains disconnect to the oven in case of an emergency.**

CONNECTING POWER TO THE FURNACE

1. The power plug furnished with your Infinity ZR may or may not match the receptacle you have in your facility/country. **If it does not, have a licensed electrician replace it with a plug rated at 250 Volts AC and at least 40 AMPs.** Also make sure that the plug bears an independent testing label (like UL) certification insignia. A dedicated mains power circuit is required. Make sure the wall supply wire size accounts for the distance from the power source to the oven outlet.

The maximum impedance of the power supply to the furnace must be less than 0.027ohms, as determined by a licensed electrician.

2. Circuit Breakers protect circuitry from electrical overload.

Logic Power (2ea): Black button will "pop out" if overload is present.

- To reset, wait one minute and push black button into body of circuit breaker.

Muffle Power (1ea): Dual Toggle Handle will point downward if overload is present.

- To reset, wait one minute and rotate handle upwards until the toggle latches in the up position.

ENVIRONMENTAL CONDITIONS

- Indoor use
- Altitude up to 2000m
- Environmental Temperature 5°C to 40°C (41°F to 104°F)
- Maximum relative humidity 80% for temperatures up to 31°C (88°F) decreasing linearly to 50% relative humidity at 40°C (104°F).
- Mains supply voltage fluctuations not to exceed +/- 5% of the nominal voltage
- Pollution Degree 2, Installation Category II

Protection Degree IP20 – protected against objects greater than 12.5mm, no liquid protection

