



PACIFIC TRINETICS
CORPORATION

ISOSTATIC LAMINATOR



- Largest installed based in the electronic ceramics industry
- Easy to use flexible user interface
- Uniform distribution of lamination forces
- Stable pressure and temperature during cycles

PTC LAMINATOR

LT Series Warm Isostatic Laminators designed specifically for lamination of multilayer electronic ceramic products continue to be the most popular lamination system in the industry with the largest global installed base.

The LT Series Isostatic laminators use water as a medium to uniformly distribute the force of lamination. This process results in more uniform shrinkage post sintering and minimizes delamination which leads to improved yields. Parts to be laminated are vacuum-sealed in plastic bags, using a vacuum bag sealer.

Most machine operations are performed through the touch screen user interface. The PTC operating interface provides a recipe-driven menu (recipe = a specific combination of pressure, temperature, soak and dwell times) for ease of programming and operation. This allows the operator to create or select the programs with optimum process settings.

FEATURES OVERVIEW

- Largest installed based in the electronic ceramics industry
- Uniform distribution of lamination forces
- Stable pressure and temperature during cycles
 $P \pm 35 \text{ psi (TYP.)}$ $T \pm 2 \text{ C}$
- No need for expensive hard tooling
- Operation via touch screen GUI
- Dual PC/PLC control system
- Ergonomic design
- Easy to use



Model: LT12001

MODELS

LT04001 LT08001 LT12001 LT12002H LT14001 LT18001 LT20001

SPECIFICATIONS

| FEATURES | LT04001 | LT08001 | LT12001 | LT12002H | LT14001 | LT18001 | LT20001 |
|---|-----------------|----------------|------------------|------------------|------------------|-------------------|------------------|
| Vessel Dia. In. | 4 | 8 | 12 | 12 | 14 | 18 | 20 |
| Vessel Depth In. | 5 | 12 | 12 | 12 | 18 | 18 | 20 |
| Max. part dimensions Accommodated In. | 3.5x3.5 | 7.5x7.5 | 11.5x11.5 | 11.5x11.5 | 13.5x13.5 | 17.5x17.5 | 19.5x19.5 |
| Max working P* psi (Mpa) | 5,000 (34.5) | 8,000 (55) | 8,000 (55) | 12,000 (83) | 8,000 (55) | 8,000 (55) | 8,000 (55) |
| Max working T Deg. C (Optional higher Max T) | 85 (93) | 85 (93) | 85 (93) | 85 (93) | 85 (93) | 85 (93) | 85 (93) |
| System Dimensions (In.) (W x D x H) | 24x26x28 | 36x33x60 | 36x39x60 | 36x39x60 | 46x47x76 | 47x 42 x 78 | 52 x53 x78 |
| System Weight Lbs. (Kg) | 426 (194) | 1,630 (741) | 2,300 (1,046) | 2,380 (1,085) | 3,500 (1,591) | 3,855 (1,750) | 5,900 (2,678) |

* 10k psi Max P also available for 8" and 12" systems

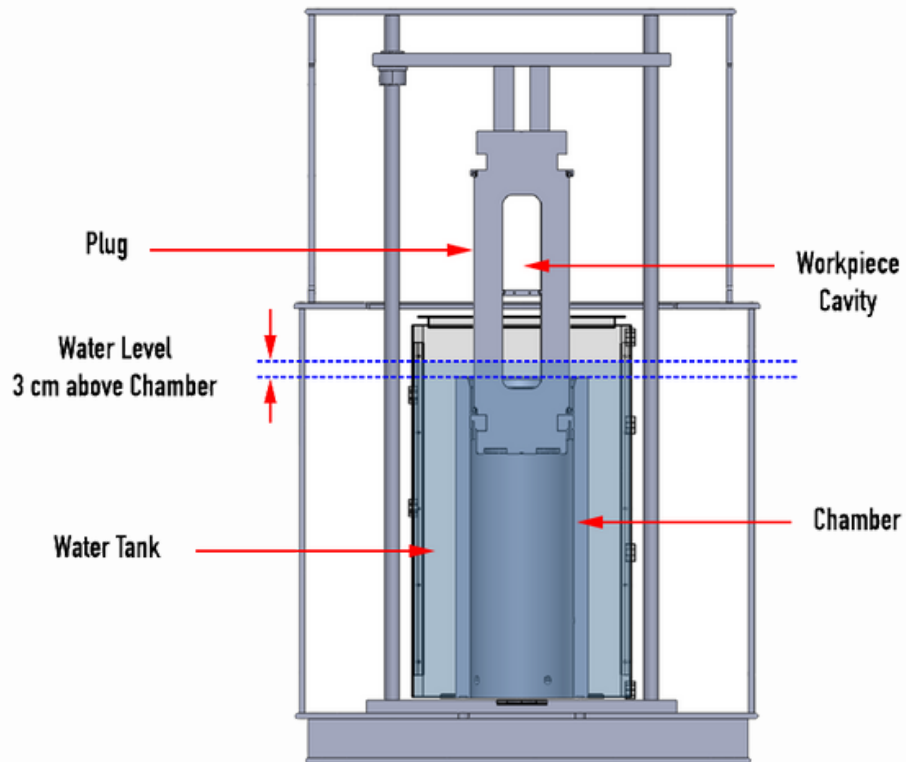
FACILITIES REQUIREMENTS

| FEATURES | LT04001 | LT08001 | LT12001 | LT12002H | LT14001 | LT18001 | LT20001 |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Electrical* | 220VAC | 220VAC | 220VAC | 220VAC | 220VAC | 220VAC | 220VAC |
| | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| | 15A | 25A | 25A | 30A | 30A | 30A | 30A |
| Compressed Air | 100 psi | 100 psi | 100 psi | 100 psi | 100 psi | 100 psi | 100 psi |
| | Filtered | Filtered | Filtered | Filtered | Filtered | Filtered | Filtered |
| Water** | Distilled | Distilled | Distilled | Distilled | Distilled | Distilled | Distilled |

* The input voltage can temporarily drop to as low as 197V without affecting performance (LT04001, LT08001, LT12001)

** A small quantity of anti-rust liquid is recommended – 0.5 Oz/gal

DETAILED PHOTOS



LT Series Graphical User Interface

ABOUT US

Pacific Trinetics Corporation (PTC) has been dedicated to providing innovative, state-of-the-art process equipment and automation systems for the electronics industry since 1987.

A U.S. company headquartered in California's Silicon Valley PTC is globally renowned for its equipment quality and durability in the multilayer electronic components industry. From large established names to startups to laboratories in the academia users of our equipment manufacture LTCC, HTCC, MLCC, MLPC, MLI, MLV, and Solid-State Li Batteries.

PTC's Process and Factory Automation Division builds on years of experience, partnering with industry leaders to streamline and automate production facilities towards becoming smart factories. PTC's expertise in automation, IoT and Big Data analysis has helped companies excel in Industry 4.0.

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Information in this datasheet is subject to change without notice. Equipment specifications should be confirmed with the PTC sales team, your local authorized PTC sales representative or distributor, or the factory prior to purchase.