Solutions for Plasma Ashing

ENVIRO™
High Speed Plasma Ashing Systems

ENVIRO-1Xa
Made in the USA

ENVIRO-1Xa 2C
Made in the USA

ENVIRO-Optima
Made in the USA

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**ENVIRO™ High Speed Plasma Ashing Systems**

- ENVIRO-1Xa – Single Chamber
- ENVIRO-1Xa 2C – Two Chambers
- ENVIRO-Optima – Three Chambers

ENVIRO™ features common process chambers mated to high speed wafer handlers for R&D, pilot production and high-volume manufacturing; including thin wafer handling.

**ENVIRO offers the flexibility for multiple applications, including:**
- Descum
- Thick resist strip (including: SU-8, KMPR, silanated)
- Polymer and residue removal
- MEMS Release (organic sacrificial layer removal)
- Backside clean (bevel/edge)

**ENVIRO offers a wide process operating range:**
- Ashing Rate – Several nm/min to more than 10um/min
- Wide range of stage temperature control (hot plate or optional cold plate)
- High efficiency downstream plasma source
- Up to 4 MFC’s, 2 standard, 2 optional
- Gas chemistries: various, including halogen bearing
**ENVIRO-1Xa™ (single process chamber)**

- 70 WPH (20 sec process time)
- 100 – 200 mm wafer sizes
- Non-contact end effector option
- HEPA option
- Dual cassette loading:
  - SMIF option

**ENVIRO-1Xa 2C (dual process chambers)**

- 115 WPH (20 sec process time)
- 100 – 300 mm wafer size with ability to run 2 different sizes simultaneously in dedicated chambers
- Non-contact end effector option
- HEPA option
- Dual cassette loading:
  - SMIF option
  - FOUP option
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**ENVIRO-Optima™ (3 process chambers)**

- 100 – 300 mm wafer size
- 180 WPH throughput (20 sec process)
- Equipment front end module (EFEM) with 4 integrated loadport modules – open cassette, SMIF and FOUP compatible
- High throughput in a compact footprint

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**About ULVAC Technologies, Inc.**

ULVAC Technologies, Inc. is an international corporation that design and manufactures systems for industrial and research applications utilizing vacuum technology. Our products cover a broad spectrum of markets, including: equipment for the semiconductor, MEMS, solar, flat panel display, automotive, medical, electronics, and refrigeration industries. ULVAC Technologies uses a class-10 process development laboratory and customer demonstration facility to meet the unique needs of their different markets. ULVAC Technologies is a subsidiary of ULVAC, Inc., which is made up of over 45 companies engaged in most sectors of the vacuum industry. The company is ISO 9001 and 14001 certified.