

Liquid Auto Refill System

LU Series



Global Standard

POINT
1

A leading global standard model

- Compliant with SEMI standards including SEMI-S2
- CE marking certified
- Compliant with RoHS

Plan to be certified by August 2015

POINT
2

Smaller footprint design

The new design slashed the footprint by 30% compared to the previous model.
Width: 500 mm Depth: 525 mm

POINT
3

Standard equipment with robust safety features

Sequence feature when replacing the tank: automatically monitors residual liquid inside the piping (Japanese Patent No. 4088062).

It has various monitoring features for issuing alarms through the output channels, signal tower, and buzzer, which triggers automatic shutdown in the event of any danger. Additional safety features are included as standard, such as an emergency shutdown feature in response to alarm signals from external devices and equipment.

POINT
4

Capability to handle a wide variety of liquid precursors

HORIBA STEC's rich experience is mobilized in this system in order to handle a wide variety of liquid precursors. The LU-1000 Series can handle especially challenging precursors, such as those with low vapor pressure and pyrophoric precursors.

HORIBA STEC offers you a total solution by upgrading your liquid vaporization system.

Specifications

Supply method	Helium is used as a push gas
Gas supply pressure	Inlet pressure: 0.3–0.6 MPa (G), Delivery pressure: +0.05–0.1 MPa (G), OP. N2: 0.6–0.7 MPa (G)
Tank	Maximum tank capacity 10 gallons *1
Operation	Fully automated operation to start and stop liquid supply prompted by external signals from a recipient system
Control panel display	Pressure error Liquid level Sequence, etc.
Power supply	AC 100–240 V 50/60 Hz 200 VA

*1 : We consult with each client to determine if it is possible to fabricate a tank according to the desired specifications.

Applicable liquid precursors

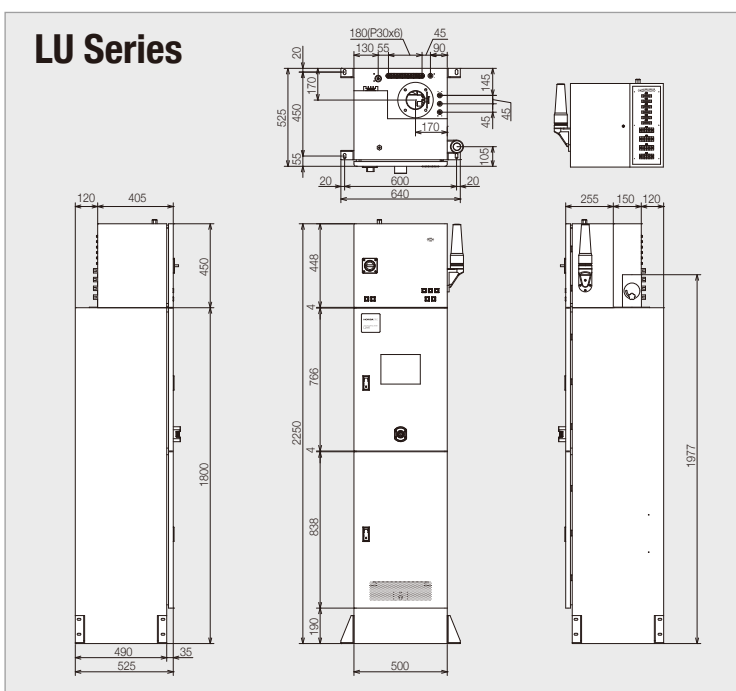
Precursor name	CAS No
TEOS	Si(OC ₂ H ₅) ₄
TMOB	B(OCH ₃) ₃
TMPO	PO(OCH ₃) ₃
TEOAs	As(OC ₂ H ₅) ₃
HCD	Si ₂ Cl ₆

Precursor name	CAS No
TEOB	B(OC ₂ H ₅) ₃
TiCl ₄	TiCl ₄
OMCTS	C ₈ H ₂₄ O ₄ Si ₄
DMPS	C ₈ H ₁₂ Si
TriDMAS	HSi[N(CH ₃) ₂] ₃

* Please contact us if you intend to handle any other precursors than above.

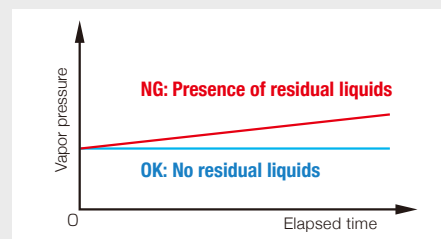
* We can offer better solution and model for challenging precursors and abatement function integrated per discussion.

External dimensions



Residual liquid monitoring feature (Japanese Patent No. 4088062)

A high-performance pressure sensor is employed for checking any minute amount of residual liquid precursor inside the piping when replacing the tank. Liquid precursor inside the piping are pneumatically delivered to the bulk tank according to the tank replacement sequence. The safety system can ensure that there are no residual liquids by monitoring the vapor pressure with a high-performance pressure sensor to see if any liquid precursor remained after cycle purge. The design places emphasis on safety by providing a feature for automatically controlling the tank replacement sequence.



Please read the operation manual before using this product to ensure safe and proper handling of the product.

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