

The Latest in Nucleation Technology.



**Continuously Monitors and Updates
the Level of Gas Entrainment**

Ideal for use in:

- Automotive
- Furniture

The Linden N₂ or Dry Air Gas Infusion™ Blending Unit is designed to nucleate Polyurethane. Low levels of N₂ or Dry Air are used as a nucleation aid to improve tool wet ability, mixing quality, material flow and to eliminate surface defects in Polyurethanes.

Nucleation aids in molding complex geometries and part configurations that would typically streak, run, or not fill; for example, vertical walls. N₂ or Dry Air is also used to improve foam characteristics, reduce urea formation and is suitable for all types of metering machines and mixing heads.

The Linden Gas Infusion Blending Unit provides a homogenous dissolution and distribution of N₂ or Dry Air into the Polyol component of the urethane

formulation. The nucleation is performed automatically based on specific gravity preset. Polyol is circulated from the material day tank through the density sensor by a magnetically coupled auxiliary pump. The specific gravity set point is “continuously” compared to a feedback signal from the kidney-loop density sensor; gas loading is corrected automatically.

**More Accurate than
Intermittent S.G. sampling**

The amount of gas, which may be entrained into the Polyol, is dependent upon the particular Polyol blend. The gas infusion unit can be provided as an addition to new equipment or can be adapted to existing processing equipment as a stand-alone add-on system.

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LINDEN
Linden Industries, Inc.
Polyurethane Processing Equipment



Features Include:

- Stand-alone skidded package for simplified installation.
- Operator friendly presets for N₂ or Dry Air solubility control utilizing S.G. (Specific gravity) pre-sets
- Continuous monitoring and update of the solubility level
- Continuous running (adjustable speed) circulation pump with magnetic coupling
- N₂ or Dry Air flow meter
- Precision day tank regulator
- In-line mixer
- Power disconnect
- Power 480 V, 3 Ph, 60 Hz
- E - Stop Interlock
- Alarm output
- Dimensions:
 - Width: 40"
 - Depth: 26"
 - Heights: 88"

Optional:

- Other voltage available upon request
- CETL label to certify compliance with CSA standards
- Communication link for data collection

Linden Industries is an ISO 9001 certified manufacturer offering a comprehensive line of metering machines, mix heads, bulk storage systems, blending equipment, turntables, and conveyors.