

RAPIDE L500

Fast gas filling with optional record keeping

The RAPIDE L500 is an efficient and fast machine for filling insulating glass units. Built with modern and top-rated technology, RAPIDE L500 makes it easy to fulfill requirements for quality assurance and documentation.

With its interfaces and connection possibilities, the L500 will handle a variety of future requirements.

The RAPIDE L500 gives you great performance and excellent value. It has been developed for universal application, including samples, unusual shapes and dimensions and triple glazing units.

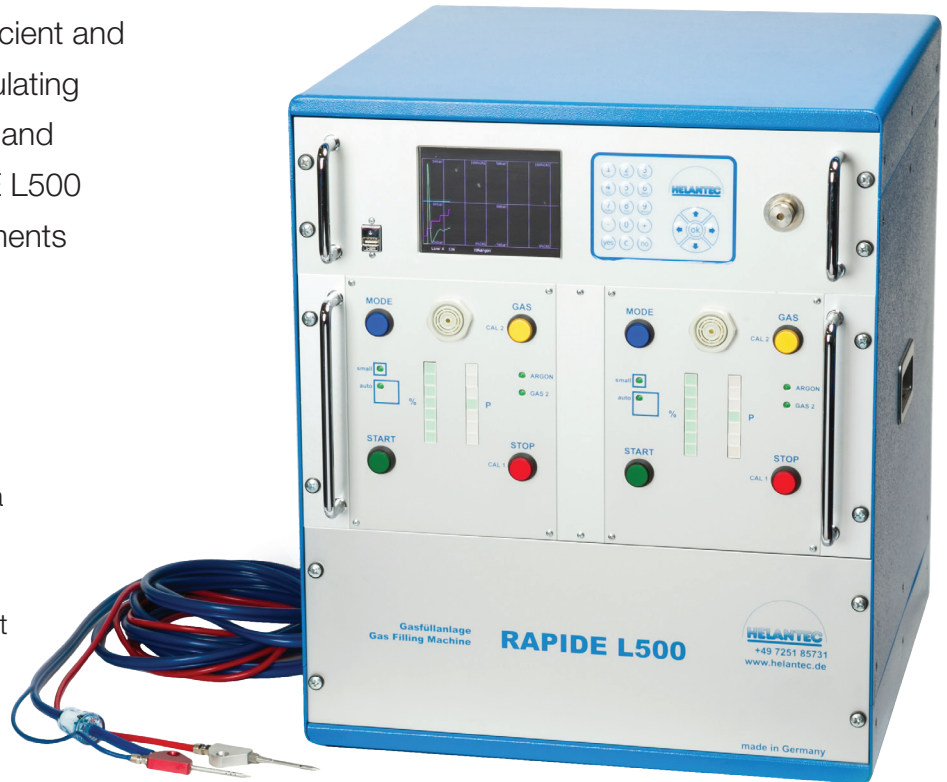
The L500 offers a variety of optional functions, enabling you to document the complete production process consistently and react immediately to any deviations in quality. This ensures a high standard for your products.

With its filling times, the RAPIDE L500 is mainly used inline in the production line before sealing. It can be also operated off-line outside of the production line before or after sealing process.

Fast filling technology

The RAPIDE L500 uses fast-filling technology, which means filling amount and suction volume are synchronised. The reading of the internal pressure of the insulating glass unit regulates this process.

The increasing of pressure is lower when synchronization is more successful, resulting in less mixing and turbulence. This leads to reliable filling with lower gas loss and shorter filling times.



HELANTEC allows a pressure build-up of maximum 3 mbar inside the insulating glass unit. This special technique is based on many years of experience. Users especially appreciate the high controlling precision for large IG units.

Filling and monitoring

A gas analyzer, especially developed for this purpose by HELANTEC, monitors the filling process online. The gas analyzer is suitable for all gas types and gas mixtures used within the insulating glass industry.

The gas concentration is measured online during the filling process. The filling process is automatically stopped when the pre-set gas concentration is reached.

The L500 is available with one or two filling lines.

See other side for complete specifications.

RAPIDE L500 Specifications

For gas filling in the production process for any gas types and gas mixtures

Fast filling technology

Synchronisation of filling speed and suction capacity by measuring internal pressure of the insulation glass unit

Filling-lines: 1 or 2

Capacity: Up to 550 or 1,100 units per shift

Technology microprocessor controlled

Modular construction

Filling speed synchronized from 10-50 liters/minute argon per filling line

Pressure control inside IG unit is online, within milliseconds

Gas injection pressure inside IG unit < 5 mbar

Display of pressure inside IG unit is online with LEDs for each filling line

Concentration measurement is online with special integrated analyzer at each filling line

Concentration display is online with LEDs

Stop of filling process is automatically as soon as the adjusted gas concentration is reached (factory made and adjustable between 70% and 100% – typical 90%)

Calibration of the analyzer is semi-automatic with calibration mode (needs 10 seconds only)

Accuracy of analyzer is better than 2% abs.

1 particle filter at each filling line, installed outside and easily interchangeable

Gas input pressure: 5 bar (adjustable on request)

Gas input pressure control is optical and acoustic (if bottle pressure < 1 bar)

Power supply 230V /50Hz

Dimension: 19.3 x 17.7 x 22.8 inches

Weight: approximately 96 or 143 pounds

Special accessories are available for special applications

The HELANTEC RAPIDE L500 provides:

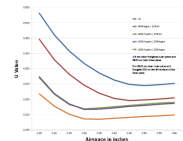
- ✓ Reliable gas filling and consistent high quality
- ✓ Fast filling and short manufacturing cycles
- ✓ Low gas loss
- ✓ Robust and tough design and technology
- ✓ Various filling and suction probes available according to your requirements
- ✓ Adjustable machine parameters enable individual solutions for a wide range of requirements
- ✓ Various options available for quality assurance, such as documentation, visualization, diagnosis, service via modem or Ethernet
- ✓ Bar code capability enables product identification

Optional Communication module

The Communication Module 5 can be integrated into the HELANTEC RAPIDE L500. This module enables you to follow and document the complete production process automatically and consistently to determine the causes of issues and to react immediately to any quality deviations.

Discover how to get your units to R-5 for less

You can combine coatings, gas mixtures and other factors to squeeze more insulating value into your units, even reaching R-5 and other competitive thermal targets, at lower costs than you might have thought possible. Get your copy of “Thermal Optimization of Residential Windows” on our [website](#) or by contacting Ryan McHugh at 330.954.3070 or ryan@optigas.com.



Thermal Optimization of Residential Windows

Ryan McHugh, Integrated Automation Systems

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Learn more

Discover how the comprehensive lineup of Helantec and OptiGas gas filling and testing systems can advance your business. Contact Ryan McHugh of Integrated Automation Systems at 330.954.3070 or ryan@optigas.com.