

# Optimize and verify thermal IG performance with breakthrough OptiGas II gas filling system

What if you could have total, tunable and consistent control of the thermal performance of every unit of insulating glass you make?

You could engineer your lines to round down to the next lowest U value, adjust gas ratios and fills by unit and achieve R-5 double pane at the lowest possible cost. To start.

**What if, at the same time,** you could statistically verify the thermal performance of all your IG? When a customer asks whether gas is really in their windows and doors, you could say yes.

**What you could fill with argon** at the speed of Intercept in-line with the same system and operator?

**What if you could cost-effectively hit Energy Star targets** by selectively adding precise doses of krypton? OptiGas II essentially eliminates krypton waste, cutting gas costs in half.

**OptiGas II revolutionizes insulating glass gas filling**  
No need to ask what if. Because you can do it all with OptiGas II, the first fully engineered, automated and integrated smart fill system for insulating glass.

To meet increasing standards and customer expectations, expect more IG to be specified with krypton. For conventional gas filling systems, this is a challenge. For OptiGas II, it's a breeze.

## Move from guessing to scientific gas filling

Conventional gas filling is inexact. Operators must identify and route the right units to the right fill station, resulting in inefficiencies and errors. You can fill with krypton or argon through one nozzle, but not both.

Actual yields are difficult if not impossible to determine with conventional gas filling. You don't know how much krypton is in your cylinders. Leaks go undetected. You carry extra cylinders to compensate.

U values are unverified. Meanwhile, with every unit you fill, half the krypton spills on the floor. Which is the same as throwing away every other cylinder you buy. OptiGas II does away with all these issues.



## What do you get with OptiGas II?

- ✓ Precise and tunable gas mix ratios and thermal performance to meet Energy Star target at a cost far less than previously possible, unit by unit.
- ✓ Argon filling at the speed of the fastest fabrication lines, with verification.
- ✓ Consistent and verified thermal performance with integrated ThermalCHECK™ by OptiGas.
- ✓ Virtual elimination of krypton waste.
- ✓ No production restrictions. With OptiGas II, you determine which and how much gas goes in each unit.
- ✓ Flexibility. Achieve the highest performing U values, Engineer double pane R-5 at the lowest cost. Create “Good Better Best” product lines without changing spacers or glass coating

## OptiGas II benefits

- ✓ OptiGas II is tunable. Achieve practically any target U-value. Fill each unit with a different gas mix in flow.
- ✓ OptiGas II essentially eliminates krypton loss with its proprietary filling process. Use half the krypton and reduce cylinder inventory by half.
- ✓ No undetected leaks. OptiGas II monitors cylinders and sounds an alarm if there is a leak.
- ✓ OptiGas II is accurate. Krypton and argon are measured at input, not estimated from outflow.
- ✓ OptiGas II is flexible. Fill argon and krypton through the same nozzle to achieve any krypton to argon ratio from 0/100 to 100/0. You no longer have to premix.
- ✓ OptiGas II is efficient. Automate thermal performance. Eliminate operator guessing with bar coding. Lower the cost of achieving targeted thermal performance.
- ✓ OptiGas II is consistent. Fill after fill.

## OptiGas II verifies thermal performance

Integrated ThermalCHECK by OptiGas II provides continuous statistical process control verification in real-time for your filling process and the thermal performance of your IG. World-class manufacturers have used SPC for decades. ThermalCHECK makes SPC for gas filling easy. It even auto-adjusts for drift.

With conventional gas filling, you take it on faith the thermal performance you promise your customers. With ThermalCHECK, you verify it. Gas fill information for each unit is displayed on screen and stored permanently for your records and trend analysis.

The benefits? You get consistent, verified and saleable quality — while reducing your cost per unit.

## Optional inventory control module

With OptiGas II' inventory control module, you get reports on gas usage and yields. You can support automatic vendor managed inventory and also determine if any gas has been lost from a leaking regulator or other causes.



## Standalone or integrated

You can run your OptiGas II station or stations standalone or integrated. OptiGas II' fill control software functions as a module of the FeneVision ERP system or can be integrated with nearly any ERP or production software.

## Learn more about OptiGas II

*Discover how precise, totally tunable and verifiable gas filling can boost your insulating glass business. Contact Ryan McHugh at 330.954.3070 or [ryan@optigas.com](mailto:ryan@optigas.com).*