

ARGON FILLING SYSTEMS, INC.



Argon Filling Systems, Inc. (AFS) delivers state-of-the-art features to enhance the window industry's gas filling process. Innovative features decrease operating expenses and overall cost of ownership, while increasing plant safety, improving performance and optimizing reliability.

PERFORMANCE FEATURES

Simple operation

- One-button start
- Automatic stop when desired argon percentage is reached
- LED lights indicate filling status to the operator
- Visually dynamic fill level indicator

One- or two-hole filling

- Flexible system based on spacer design and preference

High-speed fill

- User adjustable flow rates
- >75 liters per minute (LPM)

Reliable gas sensing

- Accurate and consistent gas fill levels
- User defined 'Over-Fill' timer increases fill level confidence
- Dual sensor technology

SAFETY FEATURES

Balanced flow

- Increases safety by balancing the flow in and out of the IG
- Minimizes over/under pressure conditions

Plug detection

- Shuts-off automatically if machine senses a reduced flow

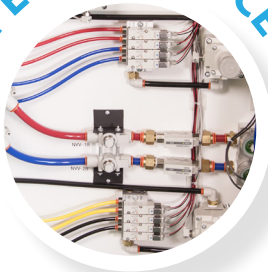
Pressure switch sensing

- Stops automatically with reduced plant air or low argon pressure



WHAT SETS US APART

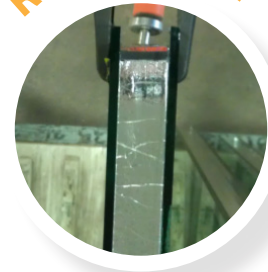
PERFORMANCE



SAFETY



RELIABILITY



Performance. Safety. Reliability.

ULTIMATE PERFORMANCE. Each line operates independently and efficiently to achieve maximum output and productivity. Even if one line is down for maintenance, the other line continues operating at full-speed, thereby minimizing the bottleneck that is common in the manufacturing process.

IMPROVED SAFETY. A single operator screen allows for quick training and error-free operation, while multiple sensors ensure a balanced process for each line. Maintenance and calibration can be performed quickly on-site, greatly reducing maintenance and downtime, which results in year-after-year of uninterrupted services.

YEAR-AFTER-YEAR RELIABILITY. Partnering with plant managers, maintenance personnel, and operators, AFS designed the most user-friendly operating screen possible. With a one-button start mechanism, dynamic visual fill indicator, and user-adjustable set points, each line may be independently stopped/restarted by either the user or automatic shutdown features.

Features	Ultra-High Speed Series			High Speed Series			E-Series		
	AFS-1HS	AFS-2HS	AFS-4HS	AFS-1	AFS-2	AFS-4	AFS-1e	AFS-2e	AFS-4e
HMI	12.1" LCD Touch Screen			12.1" LCD Touch Screen			5.7" LCD Touch Screen		
Independent Filling Lines	1	2	4	1	2	4	1	2	4
Fill Rate (LPM)¹	1-75	1-75	1-75	1-50	1-50	1-50	1-50	1-50	1-50
One-Hole Filling	✓	✓	✓	✓	✓	✓	✓	✓	✓
Two-Hole Filling	✓	✓	✓	✓	✓	✓	✓	✓	✓
Krypton Compatible	✓	✓	✓	✓	✓	✓	✓	✓	✓
Gas Sensor	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dual Gas Sensing	✓	✓	✓	✓	✓	✓			
On-Site Calibration	✓	✓	✓	✓	✓	✓	✓	✓	✓
Auto Calibration	✓	✓	✓	✓	✓	✓	✓	✓	✓
Calibration Reminder	✓	✓	✓	✓	✓	✓	✓	✓	✓
Leak Detection	✓	✓	✓	✓	✓	✓	✓	✓	✓
Negative Flow Detection	✓	✓	✓	✓	✓	✓			
In-Line Vacuum Filter	✓	✓	✓	✓	✓	✓	✓	✓	✓
Enhanced Safety Features									
Flow Balancing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Plug Detection	✓	✓	✓	✓	✓	✓			
Loss of Argon/Vacuum Pressure	✓	✓	✓	✓	✓	✓	✓	✓	✓
Available Options									
Probe Push Buttons	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internet/Email/Web-Server Connectivity	✓	✓	✓	✓	✓	✓			
Daily Statistical Data Archiving	✓	✓	✓	✓	✓	✓			
Barcode Scanning & Data Archiving	✓	✓	✓	✓	✓	✓			
Movable Cart	✓	✓	✓	✓	✓	✓			✓
High Efficiency Vacuum	✓	✓	✓	✓	✓	✓	✓	✓	✓
System Requirements									
Power	110-250 VAC 50/60 Hz			110-250 VAC 50/60 Hz			110-250 VAC 50/60 Hz		
Plant Air Pressure	100 PSI			100 PSI			100 PSI		
Argon Supply	80 PSI			80 PSI			80 PSI		

¹Fill rate depends on probe type and size

Made in the United States of America

1000 Westgate Drive, Suite 151, Saint Paul, MN 55114
 Phone: 651-757-3472 Fax: 651-305-5154
www.argonfillingsystems.com

