



CTI-Cryogenics® On-Board® IS XP Cryopump

CTI-CRYOGENICS®

Benefits

- 50% more AV capacity and 25% more N2 capacity
- Provides capacity overhead for future process improvements
- Consistent vacuum performance provides matching pumping speeds for process transparency
- FASTRegen® increases tool availability for higher productivity
- 6 Cryopumps with 1 Compressor maximizes system efficiency

Lower Cost of Ownership

- Exceptional efficiency and power savings
- Proven reliability and operational life with installed base of more than 5,000 On-Board IS Cryopumps

Increased Up-Time

- Integrated GoldLink® connection for predictive diagnostics
- Global footprint with rapid response centers throughout North America, Europe and Asia

Intelligent “Self Adjusting” Technology for Consistent Vacuum Performance

- Automatic cryogenic heat load compensation
- Variable speed motor and control system with reduced vibration

The On-Board® IS XP Cryopump delivers increased capacity for PVD applications to achieve maximum productivity while maintaining process transparency. At the same time, it leverages the proven energy efficiency, consistent performance and low cost of ownership you've come to expect from the On-Board® IS.

The On-Board IS XP Cryopump increases mixed gas capacity in processes such as aluminum, TiN, titanium and other sputtering applications. Because the On-Board IS XP Cryopump delivers up to a 50% increase in gas capacity compared to the existing On-Board IS, customers benefit from less frequent regenerations, which translates into higher tool availability, increased productivity and lower cost of ownership.

On-Board® IS XP delivers consistent and transparent vacuum performance to the On-Board® IS to provide immediate benefits from the increased capacity performance.

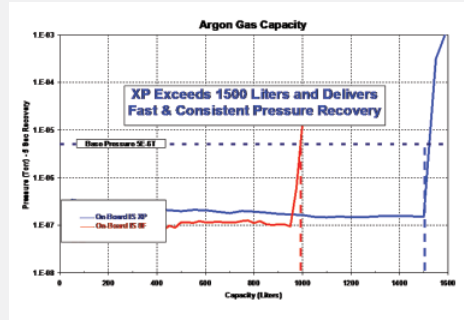
The On-Board IS XP Cryopump delivers consistent and repeatable vacuum performance by utilizing the proven technology of On-Board® IS. It uses the same intelligent system controls, refrigeration and compressor technology, electronics, and software, and it even has the same physical interface as all the On-Board IS products. The same pumping speeds for all gases means the same process qualification as On-Board.

The On-Board IS XP Cryopump is available for delivery on new tool purchases or as a vacuum-side upgrade to your existing PVD systems.

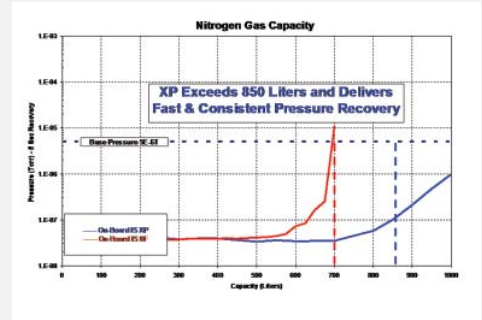


CTI-Cryogenics® On-Board
IS XP Cryopump

Capacity Performance Data

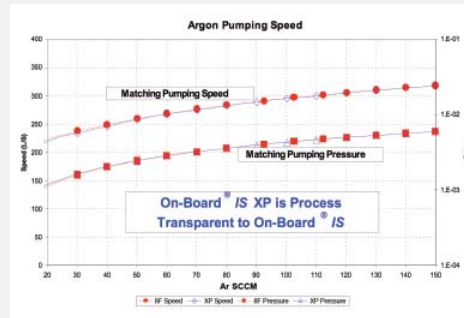


Argon Gas Capacity

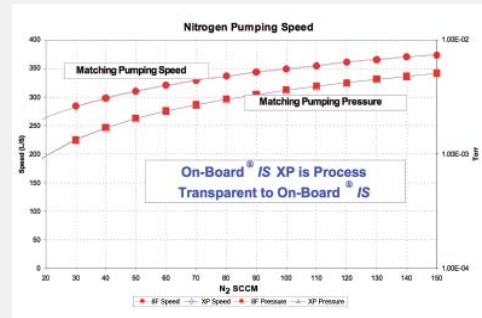


Nitrogen Gas Capacity

Vacuum Performance



Argon Pumping Speed
(Transparent to On-Board® IS)



Nitrogen Pumping Speed
(Transparent to On-Board® IS)

Performance Specifications

Pumping Speeds (L/s) (with sputter plate)	Hydrogen	800
	Air	330
	Water	4,000
Capacity (L)	Argon	275
	Hydrogen	12
	Argon (with recovery 10 ⁻⁷ in 5 sec)	1,500
	Nitrogen (with recovery 10 ⁻⁷ in 5 sec)	850

Brooks Global Customer Support

All CTI-Cryogenics products are backed by the GUTS (Guaranteed Up-Time Support) rapid response network, our comprehensive customer support program. When you call the GUTS service center, you are guaranteed immediate, competent response and action by a vacuum expert from our worldwide technical support staff. We're at work for you 24 hours a day, 365 days a year. In the U.S., dial 1-800-FOR-GUTS (800-367-4887).

For more information, please contact your local Brooks Automation sales representative or visit www.brooks.com.

