

ON-BOARD® IS 500 CRYOPUMP

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The CTI-Cryogenics® On-Board® IS 500 Cryopump is a high performance, large-diameter (500mm) cryopump that delivers high pumping speeds and capacity and is optimized for gas species that are critical to most PVD, Evaporation and General Vacuum applications.

On-Board IS 500 is ideal for demanding applications that require consistent vacuum performance, including; Power Devices, Wireless, LED, MEMS, Photonics, Flat Panel Display, as well as optical coating, metal deposition, and space chamber applications.

Featuring field-proven, globally recognized CTI-Cryogenics On-Board IS technology, the On-Board IS 500 Cryopump delivers high pumping speeds for fast pump-down times. Programmable, first-stage temperature control (up to 100K) delivers more consistent, dependable vacuum performance. High-capacity refrigerator supports high heat load process applications as well as large gas loads to deliver superior vacuum performance and extended time between regenerations.

The plug-and-play On-Board IS 500 Cryopump technology is designed with integrated valves, sensors and heaters that are factory calibrated and tested which facilitates tool integration and delivers process control and consistency between systems.

Advanced microprocessor On-Board IS controller enables automated operation of critical process that can be controlled remotely, including:

- Regeneration
- Power fail recovery
- Process temperature control
- System diagnostics and historic data logging



Features and Benefits

- Precisely controlled vacuum performance with intelligent On-Board IS Controls
- Significant energy savings on multi-pump systems when used with On-Board IS-2000V compressor
- Long time between regenerations due to high Ar and N2 capacity
- Easier installation, 50% of the weight of the On-Board 500

Performance Specifications

	On-Board® IS 500
Intelligent Temp Controls	Y
Intelligent Regencycle Control	Y
Gas Pumping Speeds	
Water	30,000 L/sec
Air	10,000 L/sec
Hydrogen	12,000 L/sec
Argon	8,400 L/sec
Gas Capacities	
Hydrogen	15 Standard Litres
Argon	6,000 Standard Litres
Max Throughput	
Argon	1,000 sccm
Crossover	600 Torr-Litres
Full Regeneration Time	200 min

Physical Features

Cryopump Weight	138 lbs
Mounting Flange	ISO-K (500 mm)

Edwards continually updates its products to match the evolving needs of the semiconductor industry and any specifications given here are subject to change without notice.

GLOBAL CONTACTS

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