

Specifications for the ULOCE-500 ultra-low oxygen partial pressure control equipment

The ULOCE-500 ultra-low oxygen partial pressure control equipment

The ULOCE-500 series of ultralow oxygen partial pressure control equipment produced and sold by Canon Machinery are anticipated for use in research and development or in small-lot production.

Oxygen pumps, oxygen sensors, circulation pumps, storage tanks and an electrical control unit are arranged in one body.

Information on instrument operation is displayed on the monitor on the front of the body, and operations are performed using the touch panel on the monitor. The basic operating sequence has been set up on the unit, making the procedure simple.

Users may manually create their own sequences, and room is provided for storing these sequences. As a result, the instrument can be customized to meet usage conditions and environments.

Numerous safety structures are employed for instrument hazard areas (high-temperature unit, charging unit, pressure vessels, etc.).

The instrument complies with Japanese laws and regulations regarding safety and operability. In addition, the instrument complies with SEMI and CE requirements (machinery directive, low voltage directive, pressure vessel directive).



Performance and functions

The principal performance and functions of the “ULOCE-500” are provided below.

Category		Performance, Specification
1. Performance	(1) Applicable gases	Argon, nitrogen, helium or their mixed gases
	(2) Oxygen partial pressure reached	Circulating purification mode: 1×10^{-30} atm or less @ 600°C
	(3) Purification flow	3L/min. Can be increase to 5L/min.(option)
2. Instrument configuration	(1) Oxygen pump unit	Electrolyte tubes: 3 Can be increased to 5 (option)
	(2) Oxygen partial pressure sensor	Measurement range: 2×10^{-1} (atmospheric) to 1×10^{-30} atm Setting locations: At 2 locations, at the oxygen pump inlet and outlet (Optionally, can be increased by one)
	(3) Storage tanks	Capacity: 40L Pressure: 200kPaG Number: 2 Can be increased to 4 (option)
	(4) Control unit	Sequence controller
	(5) Display and operation screen	15-inch touch-panel color LCD
3. Setting	(1) Gas connection port	Purified gas supply: 1/2 VCR Material gas inlet: 1/4 VCR
	(2) Utility	Electricity: AC 200V 50/60Hz 1φ 40A Dry compressed air: 0.6MPa, 5L/min. (intermittent)
	(3) Outside dimensions	750mm (width) x 1,850mm (height) x 1,300mm (depth) (excluding protruding section)
	(4) Weight	450kg (excluding options)
4. Other	(1) Options	Data log output, remote control input/output, etc.

Please contact us about customizing specifications to your requirements.

Specifications and performance may change without notice.

Contact Us

Please contact cmi-sales-ml@mail.canon with any inquiries about equipment or technologies.

We can also evaluate samples.