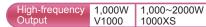
Plasma Cleaner (Parallel Electrode)

RIE and DP

V1000/V1000XS



Stage size

280×280mm V1000

400×375mm

Purpose: Removal of Organic films, Surface cleaning, Surface reforming, Surface etching etc.





Programmable control (touch panel)





Specifications

		Product code	328212	328214
		Model	V1000	V1000XS
		Plasma Mode	RIE and DP	
		Electrode structure	Parallel flat stage plate	Parallel flat stage plate (Multi)
Main Unit		Stage size	W280mm×D280mm	W400mm×D375mm
		Chamber size	W400mm×D400mm×H380mm	W600mm×D554mm×H440mm
		Vacuum gauge	Capacitance manometer	
		Reaction gas system	Two systems	
		Controller	Programmable	
		Display	Programmable terminal (touch panel)	
Radio-Frequency Power Supply		Radio-frequency output power	1,000W	1,000 ~ 2,000W
		Reference oscillator	Quartz oscillator	
		Oscillating frequency	13.56 MHz	
		Matching adjustment	Automatic tuning	
Discharge System (Vacuum Pump)		Displacement	1,000L/min.	1,000 & 1,500L/min.
		Inlet configuration	NW40 with a flexible stainless steel hose (1 meter long)	
		Outlet configuration	NW40	
Gas Systems		Purge gas	Nitrogen (N ₂) and a regulator (3 kgf/cm ²) with a manometer	
		Driving gas	Air or nitrogen (N ₂) and a regulator (alarm contact at 10 kgf/cm ²) with a manometer	
		Reaction gas G1	Oxygen (O ₂) and a mass flow controller (1000 secm)	
		Reaction gas G2	Argon (Ar) and a mass flow controller (100 secm)	
Safety Mechanisms		System Protections	Oscillator protection circuit, Front-door interlock switch (interlocked with the startup), Safety switches (interlock switch on the side panels), Vacuum leak test function, Air-purge end buzzer, Alarm buzzer, Emergency stop pushbutton switch	
		Actions against vacuum pump trouble	Plasma scrubber takes the counteractions listed and show an alarm message on its display when something wrong happens to the vacuum pump. • main valve closes • gas feed valve closes • isolation valve closes • oscillator stops outputting • treatment process is suspended • alarm buzzer starts sounding • alarm indicator lamp lights up • treatment process timer stops	
m	Power (50/60Hz)	Main unit with vacuum pump	AC220V~AC415V Three phase with step-down transformer (with an accessory power cable of 3 meters long, and exposed crimp-style terminals of 8 millimeters long)	
Required Utilities	Gases	Driving gas	Air or nitrogen (N ₂) (Feed pressure: 5 to 7 kgf/cm ²)	
		Purge gas	Nitrogen (N ₂) (Feed pressure: 2 to 7 kgf/cm ²)	
		Reaction gas G1	Oxygen (O ₂) (Feed pressure: 1.5 kgf/cm ²)	
		Reaction gas G2	Argon (Ar) (Feed pressure: 1.5 kgf/cm²)	
		Connection port	1/4" swagelok joint bulkhead union (SS-400-61)	
			Note: Pressure regulators, filters and other protective devices shall be prepared by others.	
		Vacuum pump's inlet port	NW40 (with a flexible stainless steel hose of 1 meter long)	
Connection Diameter of the Discharge Duct (and Inlet Port)		Vacuum pump's outlet port	NW40	
		Main unit's ozone outlet port	163mm diameter	
		Oscillator's ventilation port	163mm diameter	
			Note: Every port has a connector designed for a flexible hose. Connect a duct to these inlet and outlet ports.	