

규격제안서

COMMODITY DESCRIPTION

품목명/모델명	단위 UNIT	수량 Q'TY
반응성 이온 건식 식각 장비/ JVRIE-6AT	시스템 (system)	1

1. 일반적인 특성

- 간편한 동작방법 및 자동제어로 편리하고 공정 진행 가능
- Load Lock System과 Turbo-Molecular Pump를 적용하여 빠른 고진공을 형성하여 효율적인 Process Time제공
- 정확한 디지털 가스 제어와 APC(Auto Pressure Controller)

2. 사 양

A. Process Chamber Module		
- Process Chamber	Body-all stainless steel	1
- Chamber Treatment	E.P grade(electro polished)	1
- Lower Plate	Pumping Type	1
- Upper Plate	Shower Head Type (with distributor)	1
- View Port	Glass Type	1
- Gas Dosing Port	Dia 1/4"	1
B. Substrate Module		
- Substrate Holder	6inch wafer	1
- Ground Shield	Insulation	1
- Substrate Potential	RF shield	1
C. Process Chamber Vacuum Pumping Module		
- High Vacuum Pump	Turbo-Molecular Pump	1
- Direct Drive Rotary Pump	650 L/min	1
- Main Valve	Gate type	1
- Roughing Valve	Bellows Valve Angle Type	1
- F-line Valve	Bellows Valve Angle Type	1
- Leak(vent) Valve	Diaphragm Valve	1
- Vacuum Tubing	All Stainless Steel - EP Grade	1
D. Loadlock Chamber Vacuum Pumping Module		
- Direct Drive Rotary Pump	GHP240K (290 L/min)	1
- Gate Valve	Rectangular Type	1
- Roughing Valve	Bellows Valve Angle Type	1
- Leak(vent) Valve	N2 Purge(Diaphragm Valve)	1
- Vacuum Tubing	All Stainless Steel - EP Grade	1

E. Vacuum Gauge

- ATM Gauge	760torr~	1
- Process Vacuum Gauge	Capacitance Manometer (Baratron)	1
- APC(auto pressure controller)		1
- Low Vacuum Gauge	TPR280 Compact Pirani Type	1
	- Process Chamber - 1ea	
- High Vacuum Gauge	IKR 251 Compact Cold Cathode Type	1
- Multi Vacuum Controller	Full Digital Controller	1

F. Plasma Source Module

- RF-generator	13.56MHz, 600 W	1
- Matching Network Box	Automathing	1
- Remote Control Kit	RS232	1

G. Gas Supply Module

- Mass Flow Controller	Ar , O2 , CF4 (또는 SF6)	1
- Metering Valve	Purge N2	1
- Gas injection Valve Set	Diaphragm Valve / EP grade	1
- Gas Mixing Box		1
- Gas Line Connection	Dia 1/4inch	1
- Fitting Type	All - VCR type	1
- MFC Readout	4-Channel	1

H. Control Module

- Safety Controller	Alarm Lamp, Buzzer, Safety-Interlock	1
- Monitor	TOUCH Monitor controller	1
- PLC	Auto control	1

I. Dimension, Utility

- 1000(W)*780(D)*1400(H)	
- MAIN POWER	AC220V 2P 30A (7Kw)
- PROCESS GAS	Ar, O2, CF4
- PURGE GAS	N2
- PCW(Cooling water)	25L/min($\pm 2\%$), 3.5kgf/cm 2 ($\pm 2\%$), <25°C
- Compressed Air	6.0kgf/cm 2 이상

3. 보 증

기기 최종 설치 운전일로부터 1년간 보증

MFC, 압력 콘트롤러 등과 같은 모든 중요한 부품들은 보증에 포함.