

Refurbished Evaporator Specipication

Product : High vacuum evaporation system

Model : PEVA-600I

1) System Configuration

- Body 600mm AST Body
- 1 Dome
- 40CC 4 Pocket Crucible
- Overhaul 9600 Compressor
- Overhaul CT-10 Cryo Pump
- Rotary Rough Pump
- Maxtek MDC-360C Deposition Controller
- Telemark Sweep Controller
- Telemark 3/6 Gun Controller
- Telemark TT6 HV Power Supply

Electric	Main	200V	3 ϕ 60Hz 80A
Compressed Air	Main Supply	6mm Speed Connector	60~70 psi
N2	Main Supply	6mm Speed Connector	14~30 psi
O2		1/4 inch swagelok	14~15 psi
PCW	Main Supply	1 inch PT Linner Thread*2	25~30 lpm
Rough Line		50mm	Out Size

Product : High vacuum evaporation system

Model : PEVA-600I

No	Vendor	Model	Vintage
1	AST	PEVA-600I	2006.11

2 Configuraion and System

2-1 Vacuum Chamber

2-1-1 Evaporation Chamber

[1]	Body	1476*1905*1260 (W*H*D)	1 set
[2]	Chamber Front Door	870*1170(W*H)	1 set
[3]	Chamber attatchment		1 set
	a) View port		1 set
	b) Shield plate		1 set

2-2 Internal jig System

2-2-1 Substrate

[1]	4 Inch Wafer		-
			-

2-2-2 Internal jig for revolution

[1]	Rotation and revolution jig		1 set
			1 set
[2]	Rotation System		1 set
			1 set
[3]	Substrate Holder	Planetary Dome(φ400*285R-8매)	3 Domes
[4]	Subplate wafer holder (5inch)		36 ea
[5]	Wafer Spring		120 ea
[6]	Dome clamping shaft		3 ea
[7]	a)Holder stand		1 set

2-3 Substrate heating system

2-3-1 Substrate Heater (Max 350°c)

[1]	Infrared ramp heater unit	750W*2pcs	4 sets
[2]	Quartz glass shield		4 sets
[3]	Heater Power supply	Out put Power : 6 Kw	1 set
[4]	Temperature controller	PID Contol	1 set
[5]	Thermocouple	For Over Heat Interlock(safety)	1 set
		For Temperature Control	1 set

2-4 Evaporation source

2-4-1 EB Evaporation source

[1]	EB Gun		1 set
[2]	Hearth volume	25CC*4	1 set
[3]	Hearth rotation feed through	With Position Sensor	1 set
[4]	Beam seep control	Set on a Touch Panel	1 set
[5]	EB Power supply	TELEKARK TT-6(Output power:6KW)	1 set
[6]	Source shutter	With Open and Close Sensor	1 set


2-5 Frame System

2-5-1 Frame

[1]	Frame	Mild Steel Made	1 set
[2]	Panel		1 set

2-6 Pumping System

2-6-1 Roughing pumping system (oil pump type)

[1]	Rotary Oil Pump	TRP-90 	1 set
[2]	Roughing valve		1 set
[3]	Vent valve		1 set
[4]	Vacuum piping		1 set

2-6-2 High vacuum pumping system (cryo pump type)

[1]	Cryo Pump	CRYO-CT-10	1 set
[2]	Cryo compressor	9600	1 set
[3]	Main valve		1 set
[4]	Fore valve		1 set
[5]	Atomspheric pressure sensor		1 set
[6]	N2 IN/Out valve	Cryo Regeneration	1 set
[7]	Regulator for cryo pump vent		1 set
[8]	Cryo meter	MBS	1 set

2-8 Control and operation System

2-8-1 ULVAC GPCS-2700 (PC+PLC)

[1]	PLC	PATEK Programmable Controller	1 set
[2]	P/C	Advantek	1 set
[3]	Touch Panel Monitor	TFT LCD	1 set
[4]	Emergency Stop Button	EMO	1 set
[5]	Main Breaker		1 set
[6]	Electric parts such as breaker,Relay, and Timer		1 set

System Function is as follows..

Auto Pumping, Auto Deposition, Process Recipe, Data Logging, and Alarm Histroy

2-8 Measuring System

2-8-1 Vacuum Gauge (Cryo Pump Specification)

[1]	Ion Gauge Controller	GP-307	1 set
[2]	Convectron Gauge Controller	GP-307	1 set
[3]	Sensor Head for Pirani Gauge	NW-20	1 set
[3]	Ionization Gauge	GP 270006	1 set
[4]	Convectron Gauge	GP-275071	2 set

2-8-2 Film thickness Controller (MAXTEK 360C)

[1]	Film Thickness Controller	MAXTEK 360C	1 set
[2]	Deposition Sensor (Single)	Single	1 set
[3]	Sensor Shutter		1 set
[4]	S/S Card		1 set
[5]	DIO Card		1 set

2-9 Compressed Air System

[1]	Filter Regulator		1 set
[2]	Solenoid Valve		1 set
[3]	Speed Controller		1 set
[4]	Compressed Air Piping		1 set

2-10 Cooling Water System

[1]	Water Supply/Drain Header		1 set
[2]	Ball Valve		1 set
[3]	Flow Meter Pressure Switch		1 set
[4]	Solenoid Valve		1 set
[5]	Cooling Water Piping		1 set

2-11 Option

[1]	Heath Liner		-
[2]	Parts		-