SYSTEM CONFIGURATION

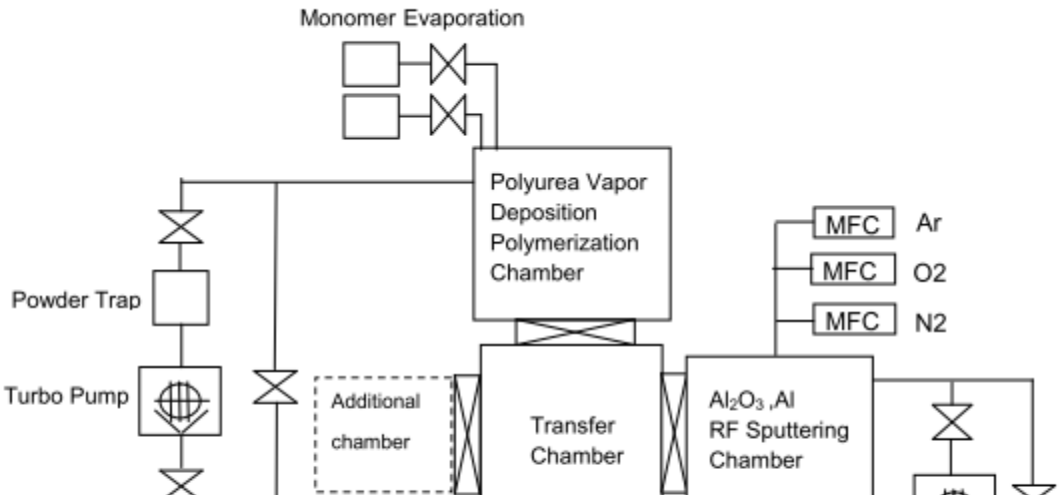
1. SYSTEM : VAPOR DEPOSITION POILMERIZATION COMBINED EQUIPMENT
2. MAKER : ULVAC Inc.
3. MODEL : PME-200(SME-200 MODIFIED EQUIP.)
4. SUBSTRATE HOLDER DIM. : 150 x 150 mm
5. SPUTTER SYSTEM :
   - Sputter-down Method
   - T/S distance : initial 120mm
   - Rotating table type electrode
   - Shadow pattern Deposition Mask
   - Gas system : MFC installed for each of the Ar, N2 and O2
   - Cathode RF, DC change System(DC and RF power supply simultaneously is not possible)
6. GAUGE : Baratron, Ionization, Pirani, and ATM gauge.

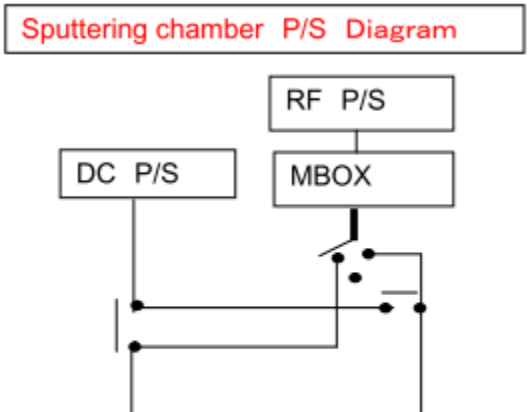
SYSTEM CONFIGURATION

This equipment consists of the following components

1. Main Unit
   - L/UL Camber, Transfer Chamber, Vaport Deposition Polymerization Chamber, Sputtering Chamber
   - Control Rack
   - Dry Pump, Rotary Pump, Chiller

Schematic Diagram of the Equipment





5 Utility

5-1 Utility

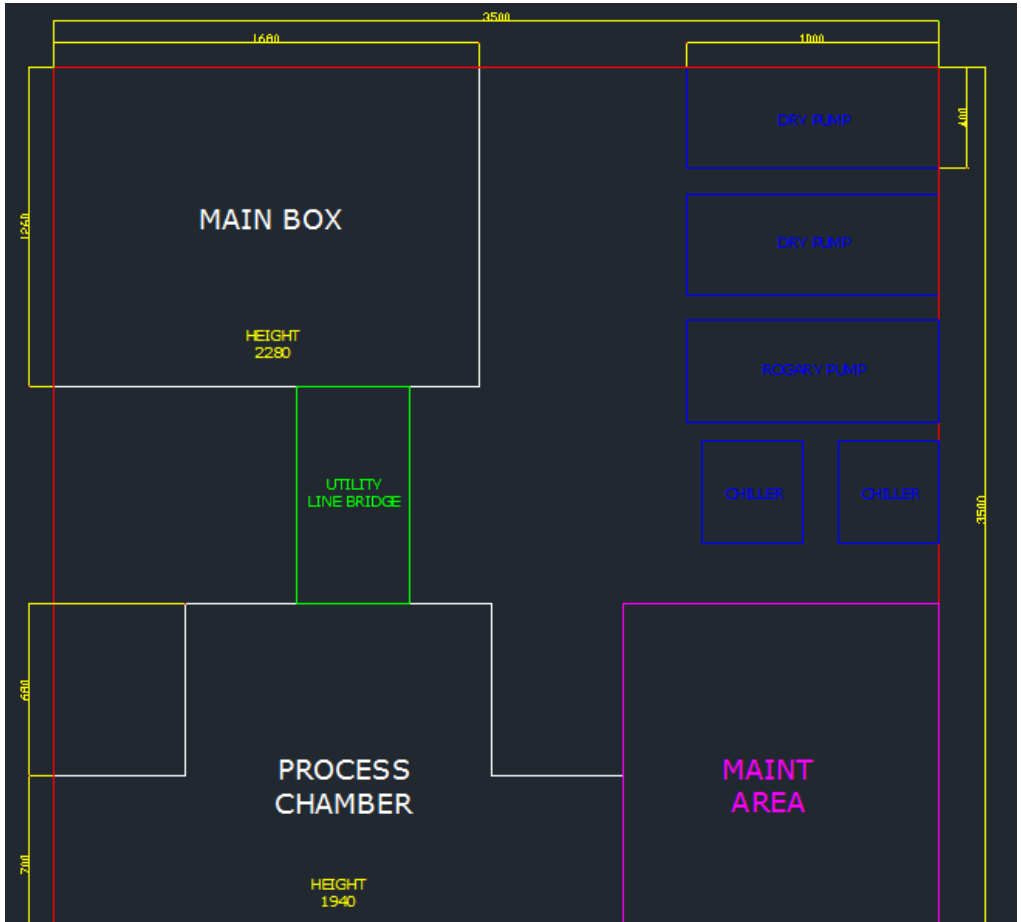
Type	Use	Consumption or Pressure	Connection	Conditions
Electricity	Power	3 φ 220V ± 10% 50/60Hz Approx. 40kVA		
Cooling Water	System Cooling	Supply: 0.2～0.3MPa Back Pressure : 0.05Mpa or less Main unit: 19l/min	Supply: Rc3/4 ×2	Gauge Pressure Resistively 5kΩ·cm or more 20～25℃
			Return: Rc1 ×2	
			Open drain : R3/8×2	To drain the system
	Substrate cooling in Polymerization Chamber	Chiller circulating water supply : 0.2 ～ 0.3MPa		Gauge Pressure Resistively 5kΩ·cm or more 15～30℃ (Temperature control)
Compressed Air	Air Drive	0.6 ～ 0.7MPa some amount Normal pressure 0.5MPa	Rc3/8	Gauge pressure Regulator is provided for the equipment.
N2Gas	System vent	0.05MPa Approx.100l/1 of Chamber Volume	1/4 Swagelok Fitting	Gauge Pressure Without Regulator

5-4 Equipment Weight

(1)	Main Unit	Approx. 2,000 kg
(2)	Operation Panel	Approx. 500 kg
(3)	Dry Pump	Approx. 200 kg × 1
(4)	Dry Pump	Approx. 200 kg × 1
(5)	Rotary Pump	Approx. 70 kg × 1

* The above weights are all estimates and they will be confirmed in accordance with the officially submitted drawings after execution of the contract.

LAYOUT


3500
1680
1000
DRY PUMP
400
MAIN BOX
1650
DRY PUMP
HEIGHT
2280
ROOARY PUMP
UTILITY
LINE BRIDGE
CHILLER
CHILLER
3500
600
PROCESS
CHAMBER
MAINT
AREA
2100
HEIGHT
1940