



## Outline

Small-sized vacuum evaporation equipment with resistance heating requiring compact storage, such as main pumps, backing pumps, Pirani vacuum gauges, ionization vacuum gauges, valve piping, and electrical

## Features and Cautions on use

- Easy viewable through glass belljar and easy maintenance.
- The vacuum chamber can be opened without stopping the main pump.
- Since an evaporation power supply and electrode have been added, simultaneous evaporation and multi-layer evaporation (a maximum of four layers) are possible.
- It is easily moving vacuum pumping system with casters.
- The safety of the installation can be secured with adjusters.

## Specification

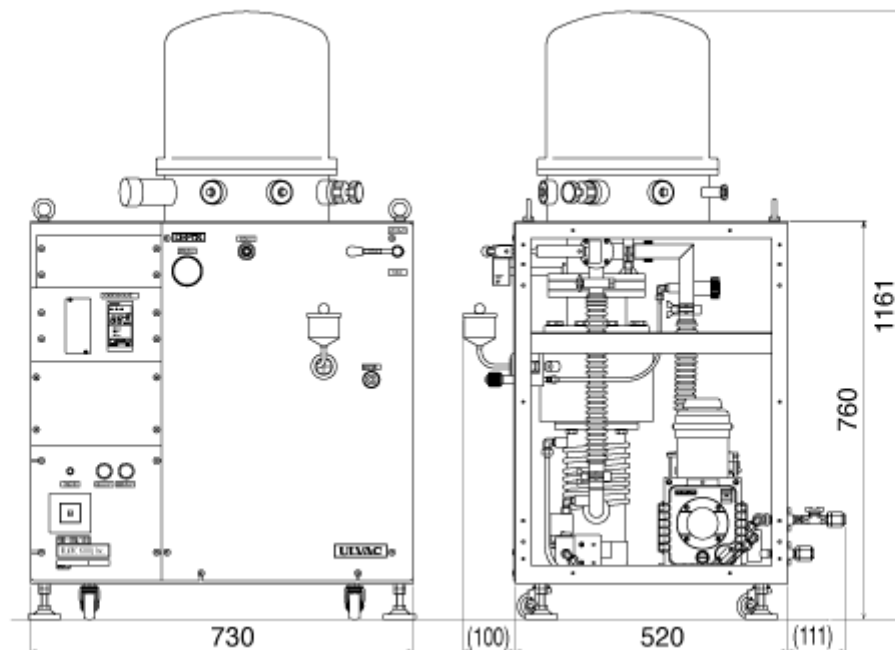
Item	Unit	Figure
Ultimate Pressure	Pa	$4.0 \times 10^{-4}$
	kPa	-101.3 <sup>#1</sup>
Evacuation time		$4.0 \times 10^{-3}$ Pa/10min
Ultimate Pressure (with LN cold trap)	Pa	$3.0 \times 10^{-4}$
	kPa	-101.3
Evacuation time (with LN cold trap)		$3.0 \times 10^{-3}$ Pa/10min
Vacuum chamber		Glass belljar (dia.300mm × 300mm(H))
Feedthrough collar		12 ports (side 8 / bottom 4)
Recommended substrate size		sq.50mm (sq.140mm)
Substrate electrode distance		Max 200mm
electrode structure		1 point
electrode structure		SEREM “PSE-150C” 1 set 0-10V 150A (Max)
Main pump		Oil diffusion pump (Water cooling) 400L/sec
Liquid Nitrogen trap		Equipped
Backing pump		Oil rotary pump 200L/min
Oil-mist trap		OMI-200
Main valve		Butterfly valve
Sub valve		Three way valve
Automatic leak valve		Option
Control		Manual control
Pirani Vacuum Gauge		ISG1(WP-01)
Ionization Vacuum Gauge		ISG1(M-34)
Overall dimensions	mm	730(W) × 709(L) × 1161(H)
Weight	kg	148
Overall dimensions (Power supply)	mm	480(W) × 435.3(D) × 149(H)
Weight (Power supply)	kg	40
RoHS applied		

#1: 単位が[kPa]の到達圧力はゲージ圧表示です。

## Utility

Item	Unit	Figure
Power required (Body)		Single phase (100)(50/60Hz): 1.6kVA
Power required (Power supply)		Single phase (200) (50/60Hz): 1.5kVA
Ground terminal		D grade (ground resistance/100Ω or less)
Water requirement		2.0L/min (Water temperature : 20-25 degrees C, Wat
Connection (Body) Single phase, 100V		Single phase (100): Vinyl cabtyre cable (with R3.5
Connection (Power supply) Single phase, 200V		Single phase (200): Vinyl cabtyre cable (with R2.0
Connection (water piping)		Rp1/4 (With hose fitting ”Kantouch”)
Recommended house		Tetoron Braided hose (O.D.dia.15mm × I.D.dia.9mm)

## Outline Drawing



## Remarks

- The values of the maximum board size are shown when film thickness distributions are not taken into account.
- Please prepare the cooling water piping

## Applied optional part items

No.	Category name	Series	Name
1	Vacuum Coater Optional Parts		Additional shutter
2	Vacuum Coater Optional Parts	Adhesion Shield Plate	Adhesion shield plate
3	Vacuum Coater Optional Parts	Automatic Leak Valve for Oil-sealed Rotary Vacuum	Automatic leak valve for Oil rotary vacuum pump
4	Vacuum Coater Optional Parts		Bell jar cover
5	Vacuum Coater Optional Parts		Bell jar holder
6	Vacuum Coater Optional Parts	Control Rack	Control rack
7	Vacuum Coater Optional Parts		Deposition Controller CRTM-6000G
8	Vacuum Coater Optional Parts	Deposition Controller	Deposition Controller CRTM-9200
9	Vacuum Coater Optional Parts		Film thickness sensor CRTS-4
10	Vacuum Pump Oil		Lion S 1L
11	Vacuum Coater Optional Parts	Electrode Partition	Electrode partition
12	Vacuum Coater Optional Parts		Elevating device
13	Vacuum Coater Optional Parts		Gas introduction port
14	Vacuum Coater Optional Parts		Gauge port set
15	Vacuum Coater Optional Parts		Hermetic seal port set
16	Vacuum Coater Optional Parts	Adapter	KF25 Adapter
17	Vacuum Coater Optional Parts		Metal bell jar (with water cooling tube)
18	Vacuum Coater Optional Parts	Evaporation Electrode	Evaporation Electrode SEREM PSE-150C
19	Vacuum Coater Optional Parts	Substrate Heating Device	Substrate heating device SH-350F
20	Vacuum Coater Optional Parts	Substrate Heating Device	Substrate heating device SH-650F

No.	Code	Category name	Series	Name
21	Vacuum Coater Optional Parts		Sample holder A	
22	Vacuum Coater Optional Parts		Sample holder B	
23	Vacuum Coater Optional Parts	Sample Holder	Sample holder C	
24	Vacuum Coater Optional Parts	Sample Holder	Sample holder Soft A	
25	Vacuum Coater Optional Parts	Sample Holder	Sample holder Soft B	
26	Vacuum Coater Optional Parts	Sealing Flange Set	Sealing flange set	
27	Vacuum Coater Optional Parts		Substrate rotation mechanisms	
28	Vacuum Coater Optional Parts		UFC070 Adapter	

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