

Vacuum Deposition System

PDR-6-KA61 is PASCAL Vacuum Deposition System which can select multi source by switch change. Maximum power is 20V150A and it can accommodate a relatively large boat basket. Source number is 6.

Standard is alternating heating and it can be upgraded to an optional independent heating type if co-deposition is required,

The dedicated power supply PDR-PS has an output switching box, so you can select the target boat without rewiring.

Main features

- Front door opening / closing method for easy maintenance
- Boat or basket can use
 - up to 150A
- 6-source output switching
- Optional film thickness controller
- With expansion port for connection to glove box



PDR-6-KA61 System specification



Part / Unit	Item	Description
Material, Shape, Dimension	Material and Treatment	SUS304, EP finish
	Shape and Dimension	Rectangular chamber Approx. 350(W) x 350(D) x 500(H) mm
Vacuum	Ultimate pressure	< 1.3E-4 Pa (1.0E-6 Torr) within 12 hours
	Pumping-down speed	From ATM to 1.3E-2 Pa (1.0E-4 Torr) within 15 min.
Pumping System	Main pumping system	Ceramic bearing type Turbo Molecular Pump (450 L/S) (Osaka Vacuum TG450FCAB)
		Manual CF8" gate valve with bypass line
	Sub pumping system	Dry Pump (250 L/M) (Kashiyama NeoDry15E)
		Manual NW25 Angle Valve
System and piping connection	Pipe fitting, vary	
Vacuum Pressure Monitor	Full range gauge	Pirani Bayard-Alpert Gauge (Agilent FRG-730 / AGC-100)
Deposition	Source	3kW resistance heating
	Number	6 ea.
Thickness monitor	Sensor	Quartz crystal oscillator
	Controller	2 channel thin film deposition controller (Inficon SQC310-2-R-1)
Vent	Vent valve	Cut valve
Access door	Seal	O-ring seal
	Window	Phi 100mm with shutter
Service Ports (include above engaged ports) Note) Positions and angles are shown in attached drawing for approval.	Main evacuation path	CF8"
	Rough pumping port	NW25
	Full range gauge port	CF2.75"
	Substrate transfer port	VG150 x2 (Blank)
	Access door	350(W) x 500(H)
	Thickness sensor port	CF2.75"
	Current introduction feedthrough	CF1.33" x2
	Shutter port	CF1.33"
	Heating port	CF2.75"
	Vent port	NW25
	Option port	CF2.75" x2 NW25 x2

* Specifications and appearances may be subject to change for improvement without notice.

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CAT. RHD30K034-APR2012E