



Outline

Low-cost, resistance-heating, small-sized vacuum evaporation system that contains a turbo-molecular pump and backing pump in a compact way. Ideal for experiments such as basic research and development

Features and Cautions on use

- The tabletop compact size enables space-saving installation.
- Equipped with a turbo molecular pump.
- High vacuum evacuation is possible by simple switch operation.
- It has high expandability and is capable of multilayer film deposition and substrate rotation.
- Ideal for depositing low melting point metals.

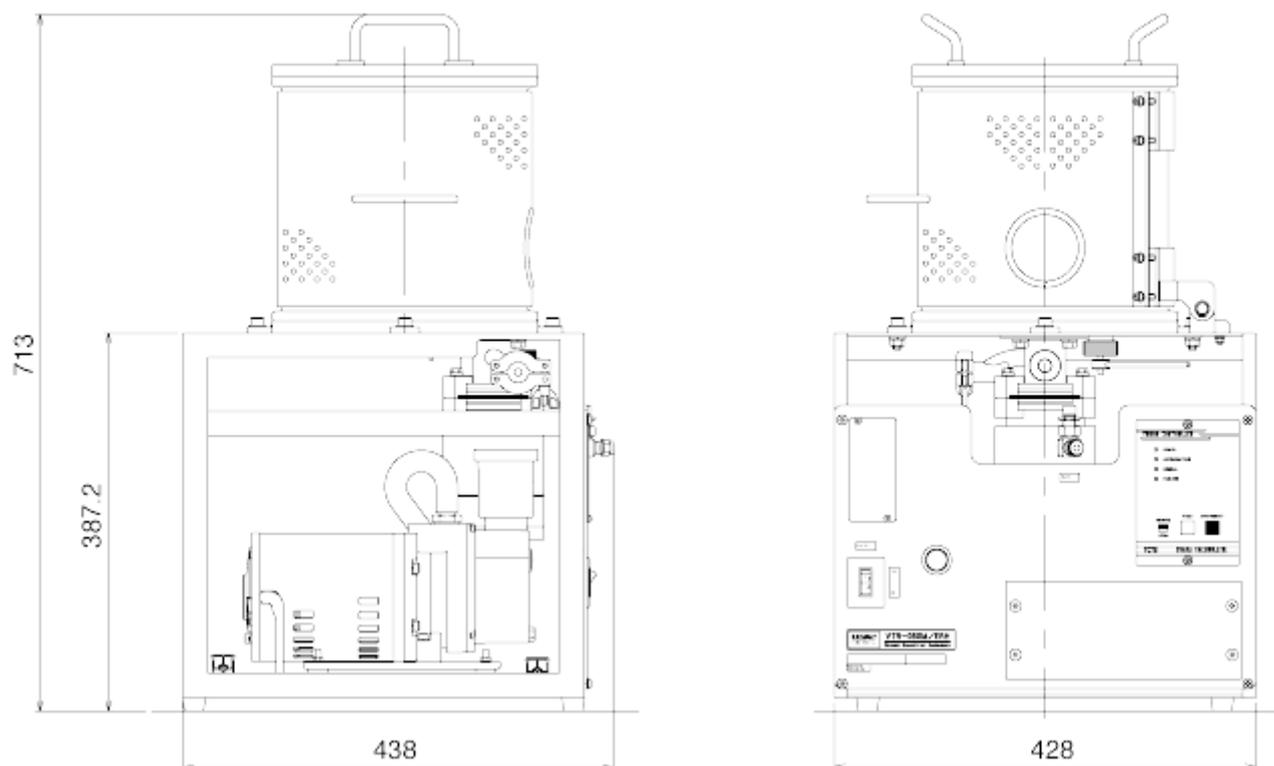
Specification

| Item | Unit | Figure |
|-----------------------------------|------|--|
| Ultimate Pressure | Pa | 10 ⁻⁴ |
| Evacuation time | | 4.0×10 ⁻³ Pa/20min |
| Vacuum chamber | | Glass belljar (dia.236mm × 250mm(H)) |
| Feedthrough collar | | 7 ports (bottom) |
| Recommended substrate size | | sq.50mm (sq.120mm) |
| Substrate electrode distance | | Max 200mm |
| electrode structure | | 1 point |
| electrode structure | | SEREM "PSE-150C" 1 set 0-10V 80A (Max) |
| Main pump | | Turbo molecular pump 60L/sec |
| Backing pump | | Oil rotary pump 20L/min |
| Oil-mist trap | | OMT-050A |
| Main valve | | Option (Butterfly valve) |
| Sub valve | | Option (Three way valve) |
| Automatic leak valve | | Option |
| Control | | Manual control |
| Deposition Controller | | Option (CRTM-6000G1) |
| Overall dimensions | mm | 428(W) × 438(L) × 713(H) |
| Weight | kg | 50 |
| Overall dimensions (Power supply) | mm | 480(W) × 435.3(D) × 149(H) |
| Weight (Power supply) | kg | 24 |
| RoHS applied | | |

Utility

| Item | Unit | Figure |
|--|------|--|
| Power required (Body) | | Single phase (100V)(50/60Hz): 0.65kVA |
| Power required (Power supply) | | Single phase (100V) (50/60Hz): 0.8kVA |
| Connection (Body) Single phase, 100V | | Single phase (100V): Vinyl cabtyre cable (with plu |
| Connection (Power supply) Single phase, 200V | | Single phase (100V): Vinyl cabtyre cable (with Plu |

Outline Drawing



Remarks

- Prepare two outlets with ground.
- The ultimate pressure with valve piping set is 1.5×10^{-3} Pa.

Applied optional part items

| No. | Category name | Series | Name |
|-----|------------------------------|----------------------------|---|
| 1 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Adhesion shield plate |
| 2 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Automatic leak valve for Oil rotary vacuum pump |
| 3 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Carbon electrode set |
| 4 | Vacuum Coater Optional Parts | | Deposition Controller CRTM-6000G |
| 5 | Vacuum Coater Optional Parts | | Film thickness sensor CRTS-4 |
| 6 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Electrode partition |
| 7 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Metal chamber |
| 8 | Vacuum Coater Optional Parts | Evaporation Electrode | Evaporation Electrode SEREM PSE-150C |
| 9 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Substrate heating device SH-350F |
| 10 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Substrate heating device SH-650F |
| 11 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Sample holder |
| 12 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Substrate rotation mechanisms |
| 13 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | System rack |
| 14 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Vacuum gauge set |
| 15 | Vacuum Coater Optional Parts | Optional parts for VTR-060 | Valve piping set |

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