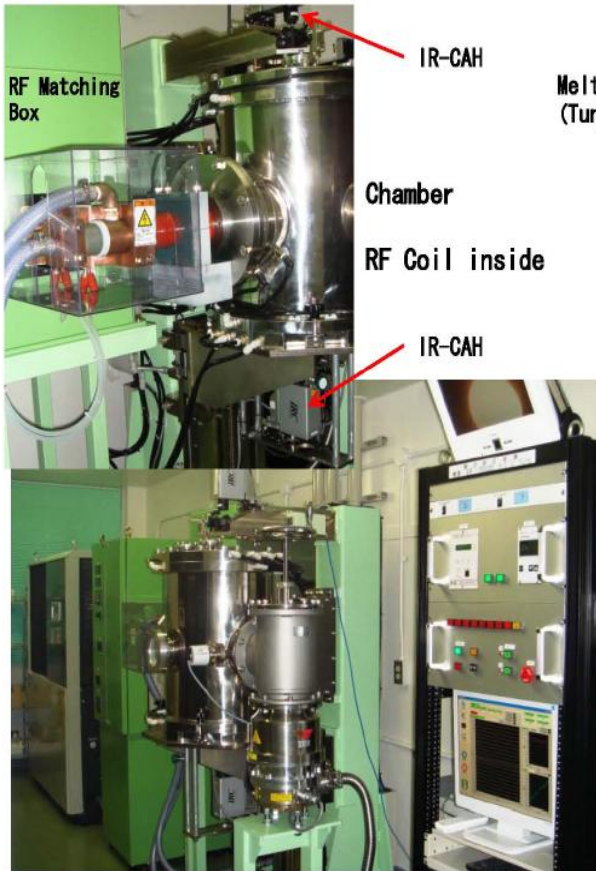


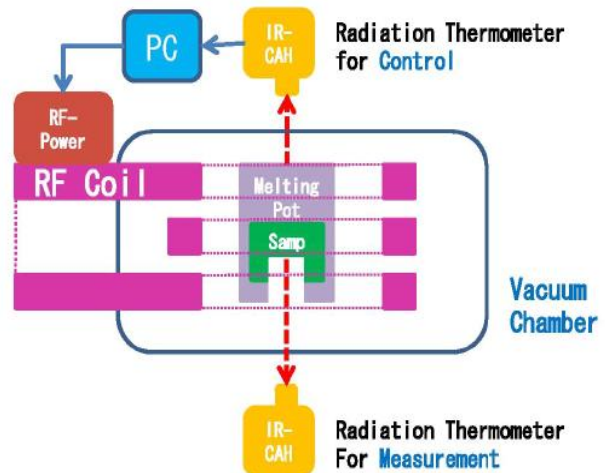
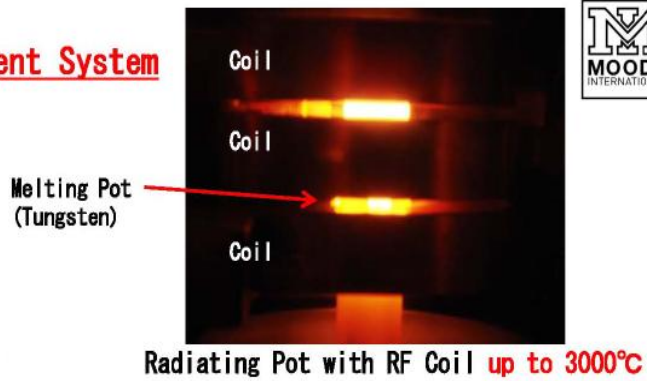
超高温用融点測定装置



Melting Point Measurement System



System Overview



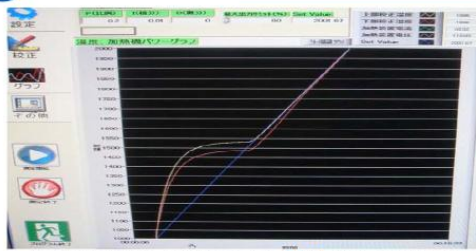
Diagram

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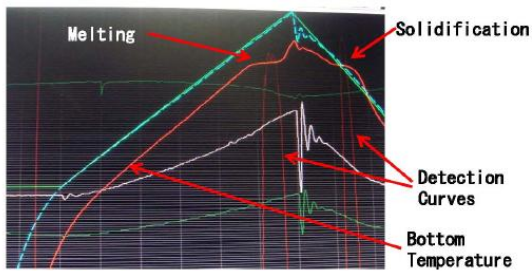
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Melting Point Measurement System



Temperature Control by PID (PC control)
 - : Set Value
 - : Topside Temperature of Melting Pot
 - : Bottom side Temperature of Melting Pot



Melting Detection Principle

Machinery Specifications

1. Chamber; Stainless double jacket with water cooler
2. Ultimate vacuum; 5×10^{-6} [Torr]
3. Filling gas; Vacuum
4. Temperature; 1500 up to 3000 [degree]
5. Melting Pot; Tungsten
6. TMP; 800[l/sec]
7. RP; 300[l/min]
8. RF Power; 60[kW]
9. RF Frequency; 20[kHz]
10. RF Power; Phase Control
11. Temperature; Radiation Thermometer 2 sets
12. Monitor; CCD Camera 2 [sets]
13. PC OS; Windows XP
14. Programming; LabVIEW (National Instruments)
15. PLC; Mitsubishi
16. Chiller; Orion RKE7500A-V, RKE11000A-V
17. Power consumption
 - Furnace & Controller; 6[kVA]
 - RF Power; 84[kVA]
 - Chiller #1; 15[kVA]
 - Chiller #2; 27[kVA]

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