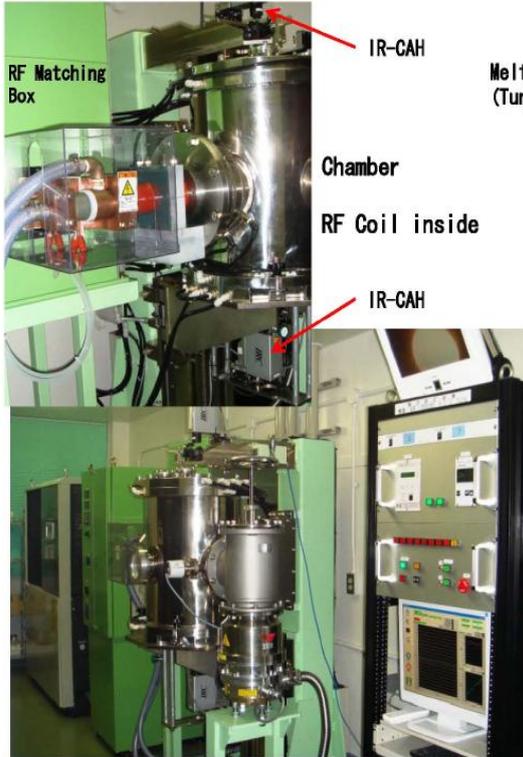


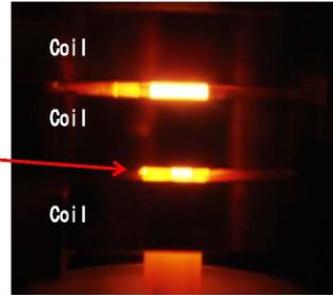
超高温用融点測定装置

Melting Point Measurement System

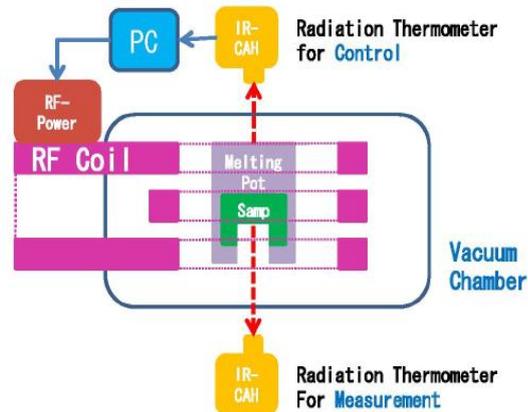


System Overview

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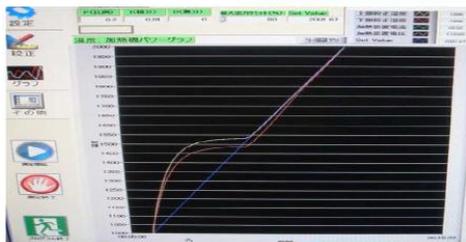
Radiating Pot with RF Coil up to 3000°C



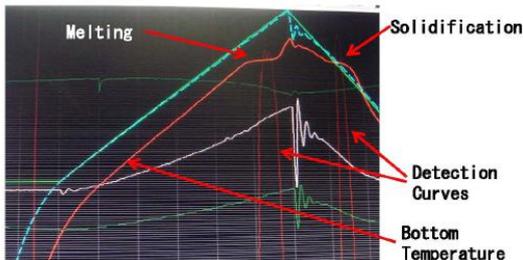
Diagram

1

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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