

Fixed Point Black Body Furnace

Lineup from In point to Cu point
Realization of a high quality plateau

Fixed point black body furnace, model : IR-R0A is a highly precise fixed point black body furnace that can use for the Temperature Standard for radiation thermometer.

IR-R0A has 6 kinds of fixed point cell from In (157° C) in low temperature to Cu(1085° C) in high temperature.

Furthermore, easily ejectable and replaceable heater unit and fixed point cell design.

IR-R0A has been developed with **NMIJ** (National Metrology Institute of Japan) and is able to utilize for temperature standard.

It is effective for fixed point calibration of the radiation thermometer for standards (model : IR-RST series by CHINO Corporation) in particular.



■ Feature

- Realization of a good plateau by the improvement of the temperature distribution
- Lineup In - Cu point
- Changeable to other fixed points by cell exchange easily
- Compact (184x370x360mm) and lightweight (13kg)

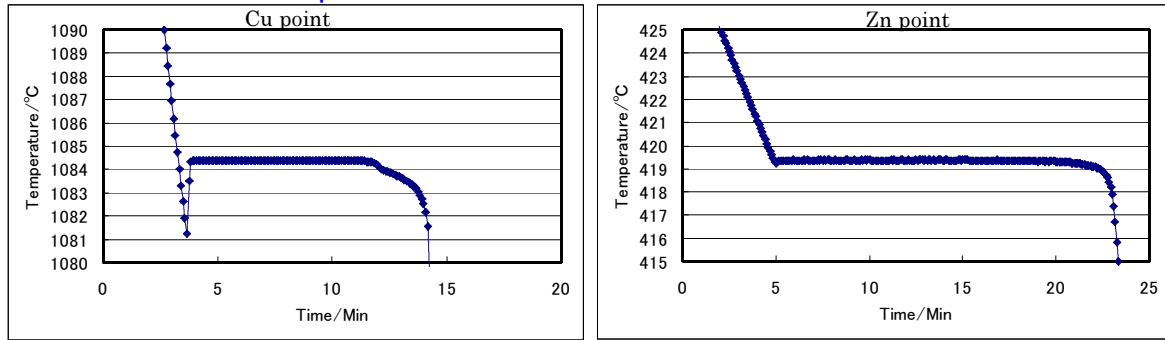
■ MODEL

IR-R0A

- Fixed point cell

In point : 156.60° C
Sn point : 231.93° C
Zn point : 419.53° C
Al point : 660.32° C
Ag point : 961.78° C
Cu point : 1084.62° C

Plateau measurement example

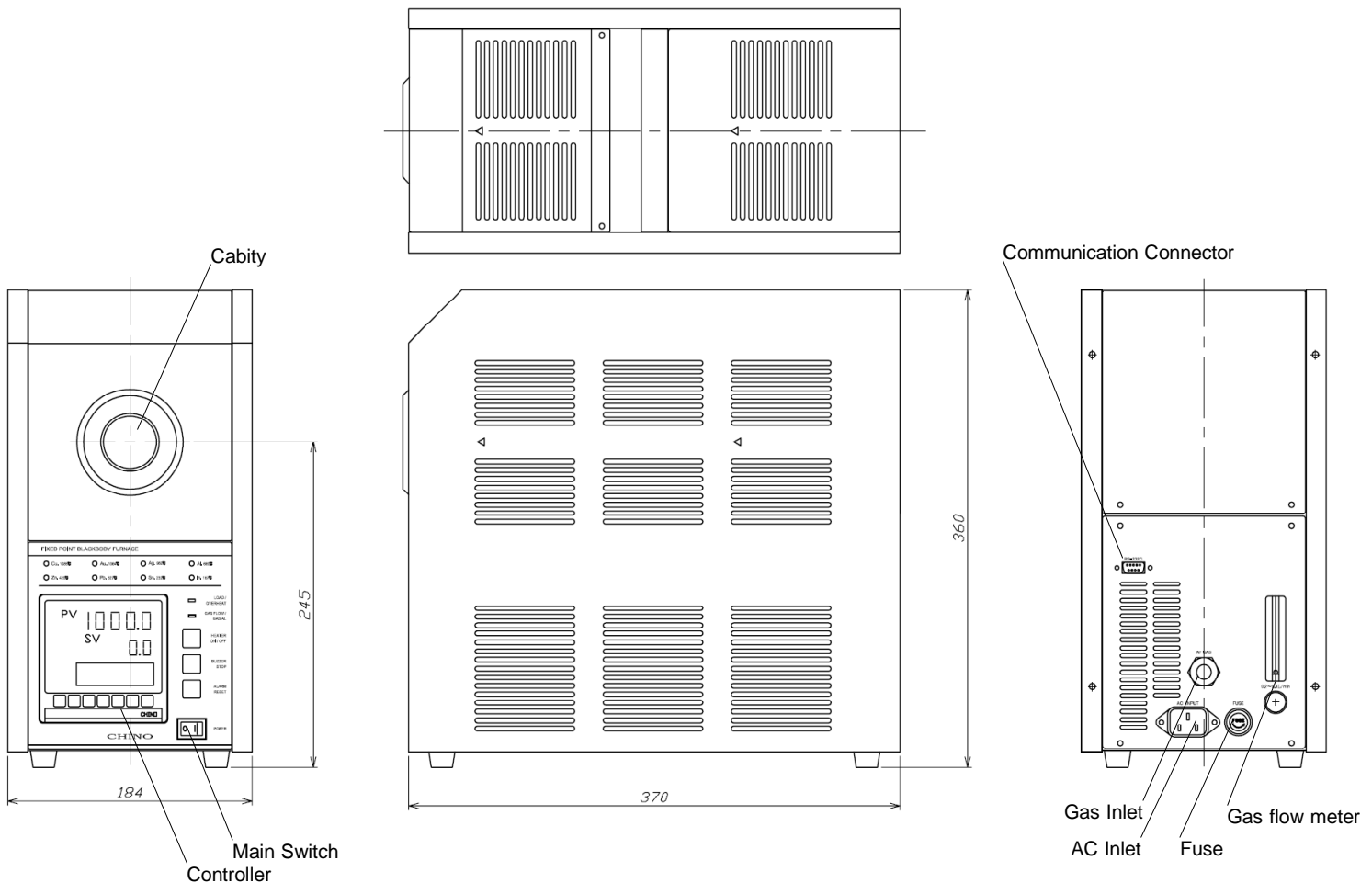


Measured by the radiation thermometer for standard (Model : IR-RST90H, wavelength 0.9μm)

Specifications

Cavity Material	Graphite 5%ash	Repeatability	within 10mK
Crucible Size	φ40mm × 70mm	Plateau Duration	more than 5min
Cavity Size	φ8mm × 48mm with iris φ3mm or φ6mm	Power Supply	100-240V AC, 50/60Hz
Emissivity	more than 0.999	Power Consumption	750VA max.
Fixed Point Metals	In,Sn,Zn,Al,Ag,Cu	Operating Temperature	10-35 °C at 240V AC
Metal Amount	about 27cm ³	Heat-up Time	about 1.5h to Cu point
Temperature Distribution	within 8 °C at crucible Area	Temperature-fall Time	about 4.5h from Cupoint to 250 °C
		Purge	Ar gas 0.2l/min

Outside dimensions



Dimensions : 184(W)×370(D)×360(H) [mm] Weight : about 13[kg]

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