

Roller Hearth Furnace (RHF)

This furnace consists of an entry-side displacement chamber, preheating, heating, slow cooling, cooling, exit-side displacement chamber and return table. It can execute sintering in a high temperature atmosphere.



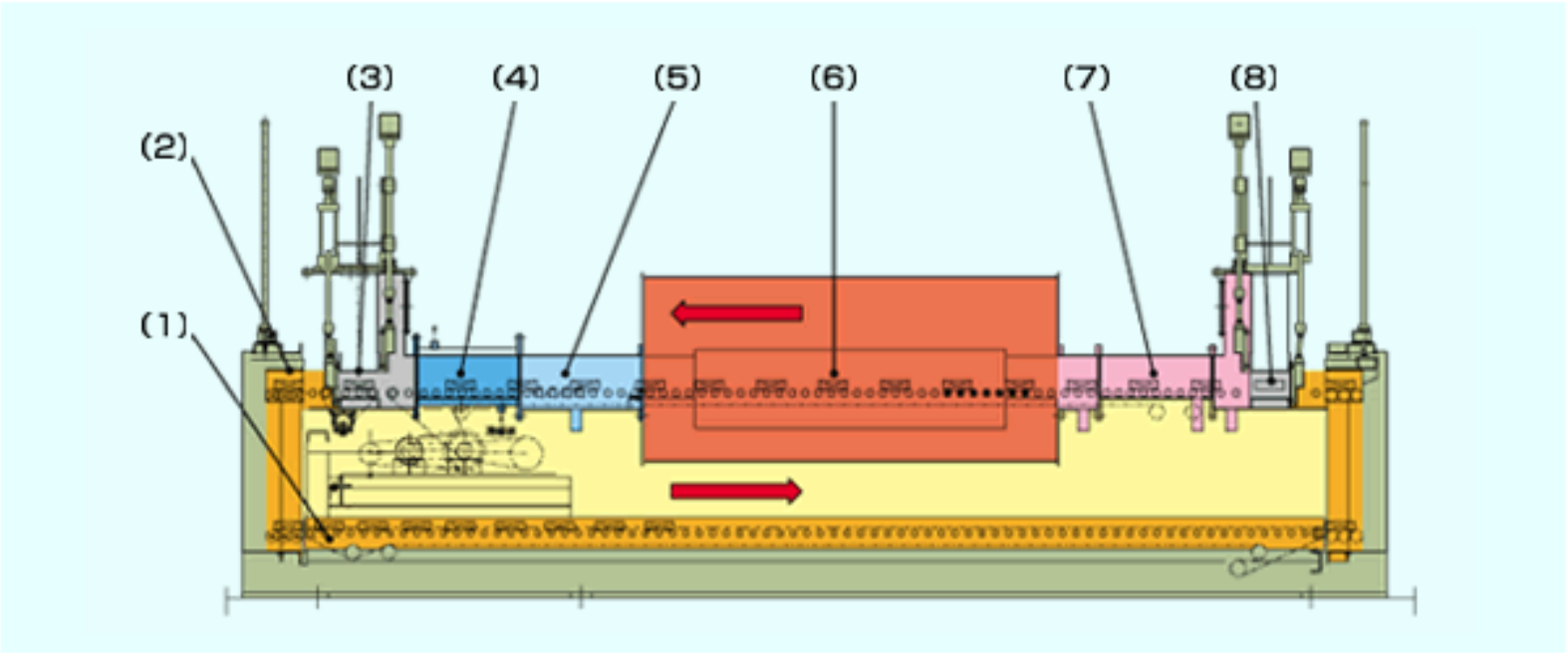
features

- Space-saving by vertical conveyance
- Superior displacement efficiency of atmospheric gas by vacuum displacement(residual O₂ concentration: no more than 50ppm)
- Even temperature distribution inside furnace due to heating at top and bottom (±3℃)
- Can execute high-temperature sintering
- Atmospheric adaptability
- Easy to change conditions (temperature, conveyance speed and atmosphere)

【Specifications】

Model	RHF
Temperature	MAX.1500℃
Atmosphere	Atmospheric air,N ₂ ,Ar,N ₂ +H ₂ (4% or less)
Heater	MoSi ₂ ,Mo,W,C
Conveyance speed	50mm/hr~500mm/hr
Internal dimensions of furnace	W250×H200×L1500mm
Tray dimensions	W140×D140×H40mm
Gas displacement method	Entry/exit-side vacuum displacement chamber (uses rotary pump)
Gas supply	Mass flow controller
Safety device	Individual zone overheating, atmospheric gas pressure monitoring, cooling water disruption alarm, automatic operation monitoring
Option	Exhaust gas burner, O ₂ concentration meter

【Construction】



(1) Return table	(2) Lifting table	(3)Exit-side vacuum vestibule chamber
(4)Cooling zone	(5) Slow cooling zone	(6) Heating zone
(7) Preheating zone	(8)Entry-side vacuum vestibule chamber	