Atmosphere furnace with high-speed heating (HAF)

The HAF Series consists of atmosphere furnaces with high-speed heating, which can attain 1600℃ at maximum in only a short period of time in inert gas atmosphere. These furnaces are used as both air atmosphere furnace and atmosphere furnace, and can be used for various types of research.

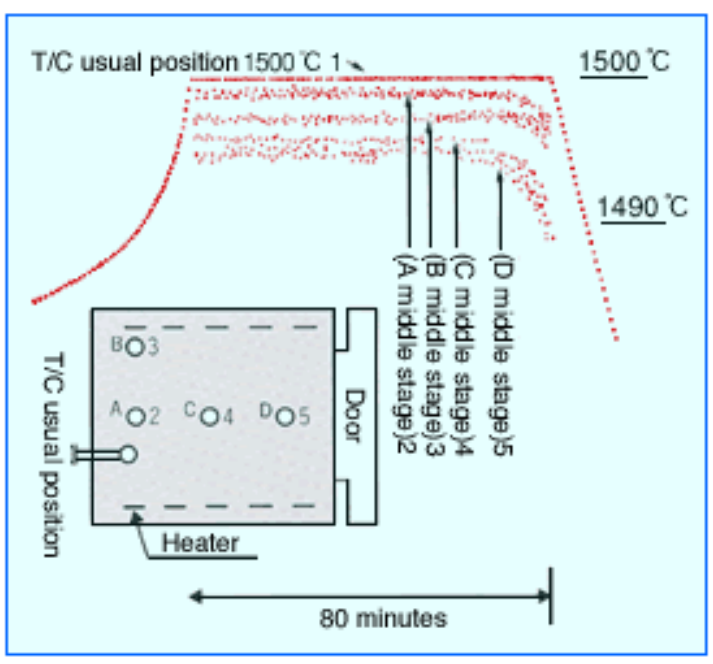
features

・Is equipped with vacuum pump, which easily provides non-oxidizing or inert atmosphere.
・Is of tightly closed structure.
・Provides good workability and ease of operation due to the use of an automated vacuum exhaust system.
・Is easy to carry out maintenance because the heating section uses a cassette system.
・N2can be used up to 1600℃ in nitrogen atmosphere.
・Is equipped with safety assuring functions (e.g. prevention of overheat, prevention of current overload, introduction of water-cooled jacket)

【Specifications】

Model	HAF-1010	HAF-2030	HAF-3030
Internal dimensions of furnace	100W×100H×100D	200W×200H×300D	300W×300H×350D
Maximum temperature	Atmospheric air:1700℃(ex.N_2:1600℃)		
Temperature during normal operation	Atmospheric air:1600℃(ex.N_2:1500℃)		
Time required for heating	50 minutes (to 1600℃ with no charge)		60 minutes (to 1600℃ with no charge)
Ultimate vacuum by vacuum purge	1.33×10^{0}Pa($\times10^{-2}$ Torr)		
Pumping speed	50Hz 30m_3/Hr, 60Hz 35m_3/Hr		
Atmosphere	Atmospheric air, inert gas		
Heater	Molybdenum disilicide MoSi2		
Control method	P.I.D. SCR continuous control		
Power requirements	1φ 200V 4.5VA	1φ 200V 7KVA	1φ 200V 20KVA

●Temperature distribution



●Degree of vacuum by vacuum purge (for HAF-2030 as an example)