

Furnace HF110

- > Three zone split furnaces designed for models ETM 100, ETM 200, ETM 300, ETM 600.
- Elements designed to achieve optimum performances. Heating elements individually mullite covered, three heat zones for an excellent temperature gradients control and reliable continuous operation up to maximum temperature.
- High performance multi-crystal refractory fabrics insulation reduce heat losses and provides fast heat up rate. Sample is heated primarily through radiation.
- > Stainless steel cover. Adjustable latches keep the furnace sections locked together during tests and facilitate the furnace opening and closing.
- Ceramic closures at top and bottom turn around the leading bars and reduce heat loss at these points.



- > Furnaces needs to be firmly fixed to the test system during use but also easily removed to allow the access to specimen for setting-up.
- > Radiation reflector protect grips from heat diffusion.
- > Wide range of pull rods and grips available.
- > Furnace is supplied with K type temperature monitoring thermocouples, to provide the most accurate indication of the specimen temperature.
- > Control systems are compatible with all furnace systems.



High temperatrure extensometer



Model		HF110	
Temperature range	°C	300-1100	
Uniform temperature zone	mm	150	
	°C	300-600:2	
Temperature gradient		600-900:3	
		900-1100:4	
Temperature fluctuation	°C	300-600:≤±2	
		600-900:≤±3	
		900-1100:≤±:4	
Inside diameter	mm	ø110x350	
Outer diameter	mm	ø310x450	

Included accessories

Pull rod & tensile grips for round specimen ø10mm and threaded specimen M16 at temperature range 300-1050°C in according to ISO6892-2, ISO783

Optional accessories		
Model	Description	
	Tensile grip for round specimen ø5mm	
HF11001	Threaded specimen M12	
	Working temperature range 300-950°C	
	ISO6892-2	
	ISO783	
HF11002	Tensile grip for flat specimen 1-3mm	
	Working temperature range 300-950°C	
	ISO6892-2	
	ISO783	
HF11003	Pull rod for gripping ends ≤M16 mm	
	Working temperature ≤950°C	
HF11004	S type thermocouple	

NOTE: For high temperature tests it is necessary a special type extensometer for high temperatures



ETT300

Environmental chamber for ETM series.

- > Temperature range from -40°C to 150°C and -40°C to 350°C using compressor cooling system.
- > ETT300A-1 and ETT300B-1 are designed for ETM 10, ETM 20 and ETM 50. > ETT300A-1 and ETT300B-1 are designed for ETM 100, ETM 200 and ETM 600.



Model		ETT300A-1	ETT300A-2	ETT300B-1	ETT300B-2
Temperature range	°C	-40 to 350 -70 to 350		o 350	
Air circulation method	-	Centrifugal blower			
Temperture accuracy	°C	< 200 ≤±2 ≥ 200 ≤±3,5			
Temperature fluctuation	°C	≤±1			_ (- 2006)
Temperature uniformity	°C	< 200 ≤±2 ≥ 200 ≤±3,5			
Temperature control meter accuracy	°C	0.1			
Heating time	°C/min	≥3			
Cooling time	°C/min	≥2			
Cooling method	-	Compressor			
Heat insulating material	-	Ammonia polyester bubbled			
Heating power	kW	4,3	4,9	4,7	5,3
Pull rod hole diameter	mm	48			
Inner dimensions	mm	240x200x600	320x300x600	240x200x600	320x300x600
Outside dimensions	mm	1820x650x930	1900x710x930	1820x650x930	1900x710x930
Weight	kg	310	330	320	350
Power supply	V-Hz-ph		400-5	0/60-3	

Bracket				
Pt100 temperature sensors				
Temperature controller				
Optional accessories				
Model	Description			
WXSB204B	Tensile grip V jaw: Ø4 - Ø9, Ø9 - Ø14 Flat jaw: 0~6mm, 6~12mm			
	Maximum specimen size: 40mmx54mm Compression fixture			
WYA304A	Platen diameter: Φ100mm			
	Bending fixture			
WZWA304	Maximum span: 80mm, adjustable			
VVZVVA304	Bending nose: R5mm, support roller:			

R2mm

Included accessories



ETT100

Environmental chamber for ETM series.

- > Temperature range from -70°C to 350°C using liquid nitrogen cooling system.

 > ETT100-1 is designed for ETM 10, ETM 20 and ETM 50.

 > ETT100-2 is designed for ETM 100, ETM 200 and ETM 600.



Model		ETT100-1	ETT100-2	
Temperature range °C		−70 to 350		
Air circulation method	-	Centrifugal blower		
Temperture accuracy	°C	-70 to 200:≤±2 200 to 350:≤±3,5		
Temperature fluctuation	°C	≤±1		
Tanana and una conifermality	°C	-70 to 200:≤±2		
Temperature uniformity	1.0	200 to 350:≤±3,5		
Temperature control meter accuracy	°C	0,1		
Heating time	°C/min	≥3		
Cooling time	°C/min	≥2		
Cooling method	-	Liquid nitrogen		
Heat insulating material	-	Aluminum silicate wool		
Heating power	kW	1,6	2,4	
Inner dimensions	mm	240x200x600	320x300x600	
Outside dimensions with nitrogen cylinder	mm	900x350x760	950x450x760	
Dimensions with machine	mm	2300x730x1500	2500x780x1800	
Power supply	V-Hz-ph	230-50/60-1	400-50/60-3	



Configuration	Sample
Comiguration	Sample

Optional accessories		
Model	Description	
	Tensile grip	
WXSB204B	V jaw: Ø4 - Ø9, Ø9 - Ø14	
	Flat jaw: 0~6mm, 6~12mm	
	Maximum specimen size: 40mmx54mm	
WYA304A	Compression fixture	
	Platen diameter: Φ100mm	
WZWA304	Bending fixture	
	Maximum span: 80mm, adjustable	
	Bending nose: R5mm, support roller: R2mm	

Included accessories			
Bracket			
Liquid nitrogen cylinder	Capacity: 15.2 liter		
	Working pressure: <0.1MPa		
	Outside diameter: 355mm		
	Height: 600mm		
	Empty weight: 8.6kg		
	Nitrogen effective days: 126~157 days		