



ELF Chamber Furnace 1100°C. 6, 14 Or 23 Liter

An economical furnace designed for light duty and general laboratory work. Low thermal mass insulation and multiple semi-embedded, free radiating wire wound elements in the chamber sides provide efficient heating. Ventilation is via a top-mounted ceramic chimney, but if toxic or corrosive fumes are likely, use of one of our dedicated ashing furnaces or a retort should be considered

Standard Features:

- 1100°C maximum operating temp.
- 6, 14 or 23 litre chamber volumes
- Tilt forward, drop down door, with air gap to minimise external temperature.
- Controller, PID with single



- ramp to set-point facility
- Delayed start & process timer function as standard
- Vacuum formed, low thermal mass insulation
- Hard ceramic hearth fitted as standard
- Ventilated, via top mounted ceramic chimney
- Thermocouple type K.

Model	Max. temp (°C)	Heat up time (min)	Dimensions		Temp. uniformity of 5°C within (mm)	Volume (liters)	Max power (W)		Weight (kg)
			Inside (mm)	Outside (mm)			Holding power (W)		
ELF 11/6B	1100	35	H165xW180xD210	H580xW410xD420	H115xW130xD130	6	2000 900	24	
ELF 11/14B	1100	40	H210xW220xD310	H630xW450xD520	H130xW140xD220	14	2600 1300	31	
ELF 11/23B	1100	29	H235xW255xD400	H715xW505xD690	H665xW455xD610	23	5000 1500	52	

CFW Chamber Furnace 1100°C, 1200°C, 1300°C. 5, 13 Or 23 Liter

A modern design is combined with traditional know-how & technology, to provide a robust & reliable furnace. Easy to access replaceable heating modules makes maintenance simple

Standard Features:

- 1100°C, 1200°C or 1300°C maximum operating temperature
- 5, 13 or 23 litre chamber volumes
- Up & away door, keeps heated surface away from the user
- PID controller, with single ramp to set-point facility
- Delayed start & process timer function
- Hard wearing alumina element carriers, entrance & hearth
- Energy efficient low thermal mass insulation
- Free radiating wire wound elements, pitched for optimum uniformity
- Easy access to elements & controls, simplifies maintenance & servicing.



Model	Max temp (°C)	Heat up time (mins)	Dimension		Temp. uniformity of 5°C within (mm)	Volume (litres)	Max power (W)		Thermocouple type	Weight (kg)
			Inside (mm)	Outside (mm)			Holding power (W)			
CFW 11/5	1100	30	H135xW140xD250	H585xW375xD485	H85xW90xD110	5	2400 790	K	30	
CFW 11/13	1100	80	H200xW200xD325	H655xW435xD610	H120xW120xD185	13	3100 1500	K	47	
CFW 11/23	1100	40	H235xW245xD400	H705xW505xD675	H155xW165xD285	23	7000 1900	K	68	
CFW 12/5	1200	35	H135xW140xD250	H585xW375xD485	H85xW90xD125	5	2400 850	R	30	
CFW 12/13	1200	65	H200xW200xD325	H655xW435xD610	H120xW120xD200	13	3100 1550	R	47	
CFW 12/23	1200	45	H235xW245xD400	H705xW505xD675	H155xW165xD325	23	7000 2550	R	68	
CFW 13/5	1300	40	H135xW140xD250	H585xW375xD485	H85xW90xD150	5	2400 1000	R	30	
CFW 13/13	1300	80	H200xW200xD325	H655xW435xD610	H120xW120xD225	13	3100 1800	R	47	
CFW 13/23	1300	55	H235xW245xD400	H705xW505xD675	H155xW165xD340	23	7000 2550	R	68	

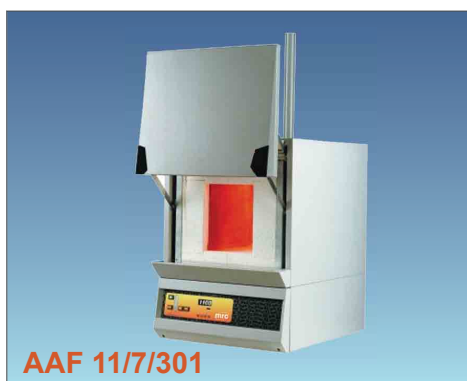


RHF 16/3/3508P1

RHF Series, 1400°C, 1500°C, 1600°C, High Temp Furnaces

- 1400°C, 1500°C or 1600°C maximum operating temperature.
- 3, 8, 15 or 35 litre chamber volumes.
- Silicon carbide heating elements, providing long life at elevated temperatures & able to with stand the stresses of intermittent operation.
- PID controller, with single ramp to set-point & process timer.
- Controllers extend heating performance by compensating for the effects of element ageing.
- Hard wearing refractory brick hearth and door surrounds.
- Low thermal mass chamber insulation for energy efficiency & rapid heating & cooling.
- Thermocouple type R.

Model	Max temp (°C)	Heat up time (mins)	Dimension		Volume (litres)	Max power (W)	Weight (kg)
			Inside (mm)	Outside (mm)		Holding power (W)	
RHF 14/3	1400	33	H120xW120xD205	H655xW435xD610	2.9	4500 1900	42
RHF 14/8	1400	22	H170xW170xD270	H705xW505xD675	7.8	8000 3200	64
RHF 14/15	1400	35	H220xD220xD310	H810xW690xD780	15	10000 2900	125
RHF 14/35	1400	38	H250xW300xD465	H885xW780xD945	35	16000 6000	179
RHF 15/3	1500	45	H120xW120xD205	H655xW435xD610	2.9	4500 2000	46
RHF 15/8	1500	40	H170xW170xD270	H705xW505xD675	7.8	8000 3500	61
RHF 15/15	1500	46	H220xW220xD310	H810xW690xD780	15	10000 3000	125
RHF 15/35	1500	46	H250xW300xD465	H885xW780xD945	35	16000 6200	178
RHF 16/3	1600	42	H120xW120xD205	H655xW435xD610	2.9	4500 2300	42
RHF 16/8	1600	35	H170xW170xD270	H705xW505xD675	7.8	8000 4000	61
RHF 16/15	1600	58	H220xW220xD310	H810xW690xD780	15	10000 3500	140
RHF 16/35	1600	56	H250xW300xD465	H885xW780xD945	35	16000 1100	179

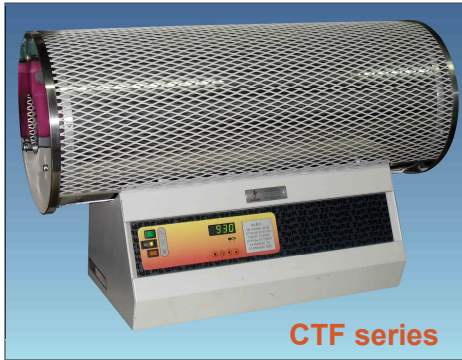


AAF 11/7/301

AAF Series, 1100°C Ashing Furnaces. 3, 7 Or 18 Liter

1100°C maximum operating temperature • Ideal for ashing foods, plastics, coal & other hydrocarbon materials • Designed to comply with BS 1016-104.4:1998, ISO 1171 :1997, ASTM 02361-02, & ASTM 03174-04 • Wire elements are protected from chemical & mechanical damage by a hard wearing alumina based liner • AAF 11/18 offers increased protection of the elements from carbon & corrosive atmospheres using silicon carbide tiles • Air inlet & tall chimney give airflow from 4 to 5 changes per minute • Powerful elements with graded winding compensate for heat loss due to high airflow • Preheating of air before it enters the chamber gives excellent uniformity • Large floor area allows for large number of samples • AAF 11/18 has two tier shelf doubling sample capacity • Low chamber height holds airflow close to samples for optimum combustion • T/C type K.

Model	Max temp (°C)	Heat up time (mins)	Dimensions		Volume (liters)	Max power (W)	Weight (kg)
			Inside (mm)	Outside (mm)		Holding power (W)	
AAF 11/3	1100	140	H90xW150xD250	H585xW375xD485 780 height to top of chimney	3	2100 1270	22
AAF 11/7	1100	155	H90xW170xD455	H650xW430xD740 1060 height to top of chimney	7	4000 2300	63
AAF 11/18	1100	70	H235xW196xD400	H705xW505xD675 1015 height to top of chimney	18	7080 3500	70



CTF Series, 900°C, 1000°C & 1200°C Horizontal And Vertical Tube Furnaces

Features:

Maximum operating temperature of 1200°C • Tube diameters of 65, 75 and 100mm • Heated lengths of 550, 700 & 900mm • These models utilise a resistance wire heating element wound around a ceramic worktube, forming an integral part of the heating element to ensure excellent thermal uniformity • Rapid heat up to operating temperature • Can be adapted to allow a non-oxidising atmosphere or vacuum, by fitting an additional worktube and end seals • The thermocouple is located in a protected position between the outside of the worktube and heating element, allowing the full worktube diameter to be used • Normally built on the horizontal base pictured left, this furnace range can optionally be mounted

vertically with a separate control box • Applications in materials research include testing of novel materials under strict temp. & varying atmosphere conditions • Applications in the electronics industry include testing electronic components & semiconductor materials under inert atmospheres or vacuum • Applications in instrumentation include testing of temperature sensors such as thermocouples and PT100's, which may require enhanced thermal uniformity

Model	CTF-12/65/550	CTF-12/75/700	CTF-12/100/900
Maximum temperature (°C)	1200	1200	1200
Tube length (mm)	600	750	950
Heated length (mm)	550	700	900
Uniform length (mm - ±5°C)	230	265	640
Tube inner diameter (mm)	65	75	100
Power rating (kW)	2	3	4.5
Outer measurements excluding tube (mm - HxWxD)	525x626x360	525x775x360	525x975x360
Thermocouple	Type N		
Weight (kg)	25	35	45



MTF Series, Small Tube Furnaces, 900°C, 1000°C & 1200°C

Features:

Maximum operating temperatures of 900°C, 1000°C and 1200°C • Tube diameters range from 15 - 38mm • Heated lengths from 130 - 400mm • These models utilise a resistance wire heating element wound around a ceramic worktube, forming an integral part of the heating element to ensure excellent thermal uniformity • Rapid heat up to operating temperature • Can be adapted to allow a non-oxidising atmosphere or vacuum, by fitting an additional worktube and end seals • The thermocouple is located in a protected position between the outside of the worktube & heating element, allowing the full worktube diameter to be used • Normally built on the horizontal base pictured left, this furnace range can optionally be mounted vertically with a separate control box •

Applications in materials research include testing of novel materials under strict temperature and varying atmosphere conditions.

Model	MTF-9/15/130	MTF-10/15/130	MTF-10/25/130	MTF-12/25/250	MTF-12/25/400	MTF-12/38/250	MTF-12/38/400	MTF-12/38/850
Max. temp. (°C)	900	1000	1000	1200	1200	1200	1200	1200
Tube length (mm)	180	150	150	300	450	300	450	900
Heated length (mm)	130	130	130	250	400	250	400	850
Tube inside diameter (mm)	15	15	35	25	25	38	38	38
Power rating (kW)	0.25	0.4	0.4	0.7	1	1	1.5	2.6
Outer measurements excluding tube (mm - HxWxD)	180x90x180	265x150x175	265x150x175	375x370x375	375x450x375	430x370x375	430x450x375	430x900x375
Heat up time	7	5	10	15	25	30	25	-
Weight (kg)	2	5	6	10	15	10	15	-



FUR-8

FUR-8-80 Series, Universal Electrical Furnaces

- Universal electrical furnaces are designed for burning of ceramics, china and stone mass, thermal processing of small metal particles in the ambience at the maximum temperature of 900°C, 1260°C, and 1340°C.
- Furnaces are used in laboratories, educational institutions, ceramics and jewellery workshops, dentists offices, and metal thermal processing shops.



Model	FUR-8	FUR-25	FUR-50	FUR-80
Dimen.(mm)	190x160x260	250x250x400	400x300x400	400x600x400
Power kW	2.5	3.4	4.2	6
Volume L	8	25	50	100
Temperate °C	1260			
Voltage V	220	20	220	400



FUR-100

FUR-100-1500 Series, Chamber Furnaces

- Furnaces of this type are designed for industrial burning of clay, stone mass and china in the ambience of air at the maximum temperature of 900°C, 1280°C and 1340°C. These furnaces are also used for glazing of ceramic products and firing of ornaments.
- Chamber type furnaces are used for thermal processing of metal parts of large dimensions



Model	FUR-100	FUR-150	FUR-200	FUR-300	FUR-500	FUR-750	FUR-1000	FUR-1500
Chamber dimen. (mm)	400x500x400	500x600x500	500x700x600	600x850x600	600x900x900	900x900x900	900x1200x900	1000x1200x1300
Power kW	9	12	15	18	36	45	57	75
Volume L	80	150	200	300	500	750	1000	1500
Temp. °C	1260							
Voltage V	400							



DENT-FUR-1

DENT-FUR-1, Vacuum Porcelain Furnace For Dental

- Top of the line High Temperature model
- Alumina/Zirconia baking
 - User friendly interface
 - Excellent temperature stability
 - Perfect heat distribution
 - 2 stage baking
 - Extreme program flexibility
 - Postfiring programs
 - Automatic night program
 - Advanced electronics
 - Extra smooth lift movement
 - 200 fully adjustable baking programs.

Model	DENT-FUR-1
Programs	200
Temperature	300°C to 1200°C
Heat Rate	10°C/min to 150°C/min
Vacuum Level	100mm/Hg to 760mm/Hg
Dimensions (mm)	W270xD380xH520
Weight	16Kg
Electrical	220-240V / 50Hz, 2000W 100-120V / 60Hz, 2000W