

Carbolite 1100°C Ashing Furnaces



- Maximum operating temperature 1100°C
- Chamber capacities of 3, 7 or 18 litres
- Robust mullite muffle design of 3 & 7 litre models and silicon carbide tiles of 18 litre model offer strong resistance to carbon build up and chemical attack
- Constant airflow of 4-5 volume changes per minute ensures rapid combustion
- Pre-heated airflow to maintain excellent temperature uniformity
- 3 & 7 litre models supplied with inconel tray & handle for easy loading/unloading
- Tall chimney for fume exhaust by convection
- Vertical counter-balanced door keeps hot door insulation away from operator
- Positive break door safety switch isolates chamber from power supply, when the door is opened
- Double skinned construction allows convection air flow to cool the outer case, to conform to EN61010 safety standard
- Choice of PID controller or programmers
- Pictured left are 3 & 7 litre models



- Pictured left is the 18 litre model supplied with rack and two inconel trays, which doubles the sample capacity
- Maximum operating temperature 1100°C
- Robust silicon carbide tile lining offers strong resistance to carbon build up and chemical attack
- Pre-heated airflow to maintain excellent temperature uniformity
- Tall chimney for fume exhaust by convection
- Vertical counter-balanced door keeps hot door insulation away from operator
- Positive break door safety switch isolates chamber from power supply, when the door is opened
- Double skinned construction allows convection air flow to cool the outer case, to conform to EN61010 safety standard
- Choice of PID controller or programmers
- Applications in quality control include, ashing of coal samples, samples of food materials or ashing of finished food products for further inorganic analysis
- Applications in environmental research include analysis of agriculture, forestry, fisheries, geology, and veterinary samples
- Applications in the chemical industry include ashing, ignition, fusion or thermal degradation testing of materials such as paints, adhesives, activated carbon, plastics & plastic resins, petrochemicals, cosmetics and rubber



Technical specification information for Carbolite AAF range of furnaces

Model	AAF 11/3	AAF 11/7	AAF 11/18
Maximum operating temperature (°C)	1100	1100	1100
Internal dimensions (mm – h x w x d)	85 x 150 x 250	90 x 170 x 455	235 x 196 x 400
External dimensions (mm – h x w x d) excluding chimney	580 x 370 x 485	650 x 430 x 740	705 x 505 x 675
Nominal heat up time (minutes)	80*	110*	60
Uniform envelope $\pm 5^{\circ}\text{C}$ (mm – h x w x d)	50 x 100 x 100	55 x 140 x 260	Not available
Holding power @ 1000°C (W)	1200	2300	3500
Maximum power (W)	2000	3900	7000
Temperature sensor	Type K thermocouple		
Net weight (kg)	22	63	70

* Estimated performance