

Ashing Furnace AAF - 3 & 7 litres

General Information

The AAF ashing furnace range is designed specifically to provide optimum ashing conditions to ensure complete combustion of the sample.

The AAF 11/3 & AAF 11/7 ashing furnaces provide a continuous flow of preheated air through the chamber, and are designed to comply with ISO 1171:2010, ASTM D3174-04: 2010 and ASTM D4422.

Standard features

- 1100 °C maximum operating temperatures
- Carbolite Gero 301 controller, with single ramp to set-point & process timer
- Large floor area allows for large numbers of samples
- Ideal for ashing foods, plastics, coal & other hydrocarbon materials
- Designed to comply with ISO 1171:2010, ASTM D3174-04:2010 and ASTM D4422
- Wire elements are protected from chemical & mechanical damage by a hard wearing alumina based liner
- 4 sided heating (2 sides, roof & hearth)
- Air inlet & tall chimney give airflow of 4 to 5 changes per minute
- Low chamber height holds airflow close to samples for optimum combustion
- Powerful elements with graded winding compensate for heat loss due to high airflow
- Preheating of air before it enters the chamber gives excellent uniformity
- Sample tray and loading handle

Options (specify these at time of order)

- 2 phase electrical supply for AAF 11/7
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications

Technical Specifications



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AAF 11/3

Max temp (°C)	1100
Heat-up time (mins)	155
Max continuous operating temp (°C)	1000
Dimensions: Internal H x W x D (mm)	90 x 150 x 250
Dimensions: External H x W x D (mm)	585 x 375 x 485
Dimensions: External with door open H x W x D (mm)	800 x 375 x 485
Dimensions: Height to top chimney (mm)	780
Volume (litres)	3
Max power (W)	2100
Holding power (W)	1270
Thermocouple type	K
Weight (kg)	22

AAF 11/7

Max temp (°C)	1100
Heat-up time (mins)	155
Max continuous operating temp (°C)	1000
Dimensions: Internal H x W x D (mm)	90 x 170 x 455
Dimensions: External H x W x D (mm)	650 x 430 x 740
Dimensions: External with door open H x W x D (mm)	905 x 430 x 740
Dimensions: Height to top chimney (mm)	1060
Volume (litres)	7
Max power (W)	4000
Holding power (W)	2624
Thermocouple type	K
Weight (kg)	63

Please note:

- Holding power is measured at 500°C
- Heat up rate is measured to 100°C below max, using an empty chamber
- Maximum power and heat up times based on a 240V supply