



AAF - Ashing Furnaces

General Information

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

For those laboratories where ashing is interspersed with other heat treatment work the AAF 12/18 provides all of the advantages of the AAF design, but with a higher maximum operating temperature of 1200 °C.

Standard Features

- Ideal for ashing foods, plastics, coal & other hydrocarbon materials
- Designed to comply with ISO 1171:2010 & ASTM D3174-04: 2010 (AAF 11/3 and AAF 11/7 only)
- Wire elements are protected from chemical & mechanical damage by a hard wearing alumina based liner (AAF 11/3 and AAF 11/7 only)
- AAF 11/18 and AAF 12/18 offer protection of the elements from carbon build-up or corrosive atmosphere, using silicon carbide tiles
- Air inlet & tall chimney give airflow of 4 to 5 changes per minute (AAF 11/3 and AAF 11/7 only)
- Low chamber height holds airflow close to samples for optimum combustion (AAF 11/3 and AAF 11/7 only)
- Powerful elements with graded winding compensate for heat loss due to high airflow (AAF 11/3 and AAF 11/7 only)
- Preheating of air before it enters the chamber gives excellent uniformity (AAF 11/3 and AAF 11/7 only)
- Large floor area allows for large number of samples
- AAF 11/3 and AAF 11/7 come complete with sample tray and loadign handle
- AAF 11/18 and AAF 12/18 have two tier rack system doubling sample capacity



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



AAF - Ashing Furnaces

AAF 11/3

Max temp (°C)	1100
Max continuous operating temp (°C)	1000
Volume (litres)	3
Heat-up time (mins)	140
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
Max power (W)	2100
Holding power (W)	1270
Thermocouple type	K
Weight (kg)	22

AAF 11/7

Max temp (°C)	1100
Max continuous operating temp (°C)	1000
Volume (litres)	7
Heat-up time (mins)	155
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
Max power (W)	4000
Holding power (W)	2300
Thermocouple type	K
Weight (kg)	63



AAF - Ashing Furnaces

AAF 11/18

Max temp (°C)	1100
Max continuous operating temp (°C)	1000
Volume (litres)	18
Heat-up time (mins)	70
Dimensions: Internal H x W x D (mm)	235 x 196 x 400
Dimensions: External H x W x D (mm)	705 x 505 x 675
Dimensions: External with door open H x W x D (mm)	990 x 505 x 675
Dimensions: Height to top chimney (mm)	990
Max power (W)	7080
Holding power (W)	3500
Thermocouple type	K
Weight (kg)	70

AAF 12/18

Max temp (°C)	1200
Max continuous operating temp (°C)	1100
Volume (litres)	18
Heat-up time (mins)	70
Dimensions: Internal H x W x D (mm)	235 x 196 x 400
Dimensions: External H x W x D (mm)	705 x 505 x 675
Dimensions: External with door open H x W x D (mm)	990 x 505 x 675
Dimensions: Height to top chimney (mm)	990
Max power (W)	7080
Holding power (W)	3500
Thermocouple type	R
Weight (kg)	70

Please note:

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