

# ASHING FURNACE AAF-BAL



**The AAF-BAL thermogravimetric analysis (TGA) furnace incorporates an integral balance. It can be used for loss on ignition applications where weight change of the sample must be monitored during the heating process.**

The AAF-BAL ashing furnace is fitted with an integral balance and can be used for loss on ignition (LOI) applications. Weight change of the sample is monitored during the heating process and this is required, for example, in the determination of organic matter content in materials such as sediment, sludge, soil and waste. Inorganic materials such as cement, lime, calcinated bauxite and refractories can also be tested.

## STANDARD FEATURES

- | 3216cc controller with single ramp to setpoint and process timer
- | Protection of the elements from carbon build-up or corrosive atmosphere, using silicon carbide tiles
- | 2 sided heating
- | Balance runs independently of the furnace control system
- | Maximum capacity of balance is 3 kg with a resolution of 0.01 (other capacities available)

## OPTIONS

- | Advanced version for EPC3008P10 to data-log both weight and temperature. It is also necessary to select the following options: EPC3008P10 instrument (which includes Ethernet communication). Data logging is done via iTools software which must be purchased separately
- | Advanced version for nanodac to data-log both weight and temperature. It is also necessary to select the following options: nanodac instrument. Data logging is done in the nanodac and can be downloaded into the 'Review Lite' software which is included with the nanodac. Data can be archived onto a USB flash drive or via Ethernet to a networked server.
- | Over-temperature protection (recommended to protect valuable contents and for unattended operation)

**AAF-BAL 11/17**

<b>Max temp (°C)</b>	1100
<b>Heat-up time (mins)</b>	--
<b>Max continuous operating temp (°C)</b>	1000
<b>Dimensions: Internal H x W x D (mm)</b>	215 x 196 x 400
<b>Dimensions: External H x W x D (mm)</b>	705 x 505 x 675
<b>Dimensions: External with door open H x W x D (mm)</b>	990 x 505 x 675
<b>Dimensions: Height to top chimney (mm)</b>	990
<b>Volume (litres)</b>	17
<b>Max power (W)</b>	7080
<b>Holding power (W)</b>	3500
<b>Thermocouple type</b>	K
<b>Weight (kg)</b>	70

**Please note**

- Holding power is measured at 500°C
- Maximum power and heat up times based on a 240V supply
- Dimensions of control box (400 x 170 x 500 mm)

[www.carbolite-gero.com/aaf-bal](http://www.carbolite-gero.com/aaf-bal)