

Furnaces, ELF



The ELF range of furnaces is bench-mounted with a maximum temperature of 1100°C, with chamber capacities of 6, 14 or 23 litres.

The low thermal mass insulated heating chamber, with semi-embedded free radiating elements, located in two sidewalls, offers exceptional performance in achieving maximum temperature quickly and efficiently. A hard ceramic hearth is fitted as standard, which offers protection from spillage and is simply and easily replaced in this event.

The drop down door can be used as a shelf when loading/unloading. A ceramic chimney is fitted for ventilation of the chamber, but it is not suitable for fume extraction. If large volumes of fumes are to be generated by an ashing process, then a dedicated ashing furnace should be considered. Ashing furnaces are also available from Carbolite please see below.



FU/35002

Technical Specifications			
Volume	6 litres	14 litres	23 litres
Max. temperature	1100°C	1100°C	1100°C
Heat up time to 100°C below max temp, with empty chamber	35 minutes	40 minutes	29 minutes
Dimensions, WxDxH (mm)			
Internal:	180 x 210 x 165	220 x 300 x 210	255 x 400 x 235
External:	410 x 410 x 580	450 x 520 x 630	505 x 660 x 715
Power supply	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50Hz
	10 Amps	12.5 Amps	23 Amps
Max. power rating	2000 W	2600 W	5000 W
Weight	24 kg	31 kg	56kg

Cat. No.	Code	Description
FU/35002	ELF1106-230SN	6 litre ELF furnace
FU/35004	ELF1114-230SN	14 litre ELF furnace
FU/35006	ELF1123-VOLTS	23 litre ELF furnace

Furnaces, AAF ashing models



The AAF range of ashing furnaces is ideal for ashing materials such as food, plastics, coal and other hydrocarbons, in which large volumes of fumes are generated.

Smoke and fumes are removed by a constant airflow (of between 4-5 volume changes per minute) created by convection between the air inlet and the tall chimney, however it is not too high to disturb samples in crucibles, or chill them, as the incoming air is preheated.

The element and insulation design preheat the airflow to ensure consistent uniformity throughout the chamber and the elements are protected from chemical and mechanical damage by a high quality hardwearing lining.

The GSM model has a glazed silica lining and is able to withstand chemical attack and has less dusty surfaces.

Prices include the PID digital controller (type 301). Multi-segment programmers are available as an option.



FU/35108

Technical Specifications				
Volume	3 litres	7 litres	18 litres	8 litres
Max. temp.	1100°C	1100°C	1100°C	1100°C
Heat up time	80 mins	110 mins	60 mins	90 mins
Dimensions, WxDxH (mm)				
Internal:	150x250x85	170x455x90	196x400x235	175x345x120
External:(exc. chimney)	370x485x580	430x740x650	505x675x705	505x725x705
Power supply	220-240V	220-240V	220-240V	220-240V
	50Hz 10 Amps	50Hz 18 Amps	50Hz 32 Amps	50Hz 14 Amps
Max. power	2000W	3900W	7000W	3000W
Weight	22 kg	63 kg	70 kg	59 kg

Cat. No.	Code	Description
FU/35102	AAF1103-230SN	3 litre AAF furnace
FU/35104	AAF1107-230SN	7 litre AAF furnace
FU/35106	AAF1118-VOLTS	18 litre AAF furnace
FU/35108	GSM1108-230SN	8 litre AAF furnace with silica lining