AZA LAB / GENERAL LABORATORY EQUIPMENT

PROGRAMMABLE MUFFLE FURNACE

AZA1238 SERIES | TECHNICAL DATASHEET



PRODUCT OVERVIEW

Laboratory high-temperature chamber furnace available in 1400°C and 1700°C maximum-temperature series, each with four chamber capacities. Features programmable PID temperature control, ceramic-fibre insulation and a selection of optional control interfaces. Model-specific configurations are detailed below.

MODEL CONFIGURATIONS

AZA LAB model	Max. temperature	Capacity
AZA1238	1400°C	1 L
AZA1238A	1400°C	4.5 L
AZA1238B	1400°C	12 L
AZA1238C	1400°C	36 L
AZA1238D	1700°C	1 L
AZA1238E	1700°C	4.5 L
AZA1238F	1700°C	12 L
AZA1238G	1700°C	36 L

KEY FEATURES

- High-purity fibrous alumina insulation for energy efficiency.
- PID automatic control via current-limiting phase-angle-fired resistors and SCR.
- Programmable power control with 30 segments.
- Double-layer steel structure and air-cooling fan for safer exterior surfaces.
- Optional safety interlock to cut power when the door opens.

TECHNICAL SPECIFICATIONS

1400°C SERIES | AZA1238 TO AZA1238C

Parameter	AZA1238	AZA1238A	AZA1238B	AZA1238C
Maximum temperature	1400°C	1400°C	1400°C	1400°C
Continuous working temperature	≤1300°C	≤1300°C	≤1300°C	≤1300°C
Heating rate	0–30°C/min (10°C/min suggested)	Same	Same	Same
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Temperature uniformity	±5°C	±5°C	±5°C	±5°C
Chamber size (W×D×H), mm	100×100×100	150×200×150	200×300×200	300×400×300
External size (W×D×H), mm	350×470×570	510×700×810	550×800×895	640×850×1050
Capacity	1 L	4.5 L	12 L	36 L
Heating element	SiC heating rod	SiC heating rod	SiC heating rod	SiC heating rod
Thermocouple	S type	S type	S type	S type
Chamber material	Alumina ceramic fibre	Same	Same	Same
Power supply	AC 220 V, 50/60 Hz	AC 220 V, 50/60 Hz	AC 220 V, 50/60 Hz	AC 380 V, 50/60 Hz
Max. consumption	2 kW	4 kW	9 kW	16 kW

1700°C SERIES | AZA1238D TO AZA1238G

Parameter	AZA1238D	AZA1238E	AZA1238F	AZA1238G
Maximum temperature	1700°C	1700°C	1700°C	1700°C
Continuous working temperature	≤1550°C	≤1550°C	≤1550°C	≤1550°C
Heating rate	0–30°C/min (5–10°C/min suggested)	Same	Same	Same
Temperature accuracy	±1°C	±1°C	±1°C	±1°C
Temperature uniformity	±5°C	±5°C	±5°C	±5°C
Chamber size (W×D×H), mm	100×100×100	150×200×150	200×300×200	300×400×300
External size (W×D×H), mm	350×470×570	510×700×805	550×800×895	640×850×1050
Capacity	1 L	4.5 L	12 L	36 L
Heating element	$MoSi_2$ heating rod	Same	Same	Same
Thermocouple	B type	B type	B type	B type
Chamber material	Ceramic fibre	Same	Same	Same
Power supply	AC 220 V, 50/60 Hz	AC 220 V, 50/60 Hz	AC 220 V, 50/60 Hz	AC 380 V, 50/60 Hz
Max. consumption	2 kW	4 kW	9 kW	16 kW

OPTIONAL ACCESSORIES & CONFIGURATIONS

- Customized chamber sizes.
- Touchscreen with USB interface.
- Computer-connection software and RKC control equipment with 16-segment program, interface and software.
- Optional door safety interlock.

Note: The touchscreen option and computer-connection option are mutually exclusive.

OPERATIONAL NOTES

- Heating rate is measured using an empty chamber.
- Holding power is measured at continuous operating temperature.
- Optional safety interlock automatically switches off furnace power when the door opens.

CONTACT

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