



PRODUCT BROCHURE · YAMATO SCIENTIFIC

High Temperature Fine Oven Programmable 216 L, 500 °C, 3-Phase

SKU DH-650Z · Thermal Processing · Ovens



QUICK VIEW

The Yamato DH-650Z is a 216 L high-temperature forced-convection fine oven with a 500 °C ceiling and a CR5 program controller — the 15% below MSRP.

SHIP WEIGHT
551 lb

SOURCING
**Authorized U.S.
distributor**

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Fine Oven

High temperature 500°C, with exhaust damper

DH650



Operating temp. range

Room temp. +10°C~500°C

Temp. control precision

±0.3°C (at 360°C)

Internal capacity

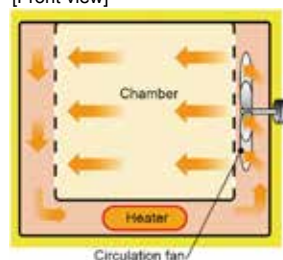
216L



216L
DH650

- Maximum working temperature at 500°C
- Allows quick exhaust and cooling with the exhaust damper inside the chamber
- Equipped with a variety of operation functions such as an easy-to-use program operation function, power consumption, power charge display and history storage
- Operation function includes fixed temp., program, quick auto stop, auto stop and auto start operations
- Equipped with a four-fold overheating prevention device (automatic overheating, heater chamber overheating, tank overheating, and temp. fuse) to ensure complete safety

[Front view]



Forced Horizontal Air Circulation

It circulates air evenly throughout the chamber, making it ideal for constant temperature tests that require excellent temperature performance.

Specifications

Model	DH650
System	Forced convection circulation (with exhaust damper)
Operating temp. range	Room temp. +10°C~500°C
Temperature control precision*1	±0.3°C (at 360°C)
Temp. distribution precision*1	±3.0°C (at 360°C)
Max. temp. reaching time*1	~60 min.
Temperature controller	PID control / SSR control with a microcomputer
Temp setting / display system	Digital setting / digital display
Damper control	Manual circulation / ventilation operation
Sensor	K-thermocouple
Heater control	SSR-controlled
Safety functions	Over current ELB, overheat preventive device (in the bath, heater chamber), self diagnostic function (temperature sensor error, heater disconnection, SSR short-circuit) Automatic overheat prevention (internal controller), temperature fuse, door switch
Additional functions	Key lock function, calibration offset function, external alarm output, temperature output, time-up output
Heat insulator	Ceramic fiber, rock wool, heat insulating block
Heater	Wire heater: 200V 1.3 kW × 6
Fan motor	20W (capacitor)
Exhaust port	ø80mm (rear)
Number of shelf stages	9 stages
Shelf pitch	60 mm
Withhold load of shelf	30 kg/shelf
Power supply (50/60 Hz)	3 phase AC220V 20.5A
Internal dimensions (W x D x H)	600 x 600 x 600 mm
External dimensions (W x D x H) *2	1350 x 950 x 1300 mm
Internal capacity	216L
Weight	~250kg
Shelf / bracket	3 pcs. / 6 pcs.

*1 Values shall be at room temperature of 23°C, power voltage of 200V, and no sample load

*2 Protrusions excluded.

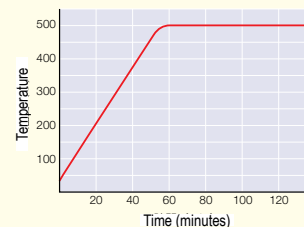
Optional Items

Description	Product code
Shelf and bracket set	211090
Cable port	
25 mm dia	281508
50 mm dia	281509

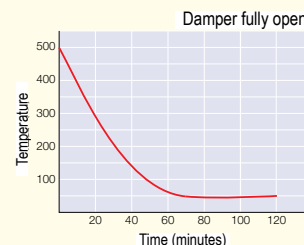


Stainless steel wire shelf

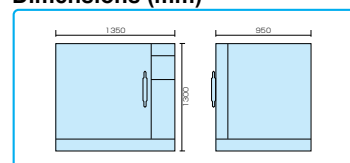
Temperature Rise Curve



Temperature Fall Curve



Dimensions (mm)



⚠ Attention

- Never use in flammable or explosive gas atmosphere.
- Caution: High temperature components.
- Never use explosive or flammable material.