

Industrial Fine Oven 500 deg.C, Forced Convection**DH650**

Operating temp. range	Temp. distribution accuracy	Internal capacity
Room temp. +10 deg.C to 500 deg.C	+/-5 deg.C (at 500 deg.C)	216L

A high temperature fine oven for heating at up to 500 deg.C

- A fine oven with the highest heating temperature 500 deg.C.
- Allows quick cooling in the unit with the exhaust damper.
- Four-fold overheat preventive functions (automatic overheat prevention, heater room overheat prevention, overheat prevention in the bath, and temperature fuse) assure the optimal safety. The product also facilitates the self diagnostic function, the alarm history monitoring function, the key lock function and an over-current electric leakage breaker.
- Abundant functions (external communication that supports RS485/FORWARD, external alarm, time-up, output on the logger) allow upgrading of the system according to the specific application.

■ Specifications

Product code	211140
Model	DH650
System	Forced convection
Performance*1	
Operating temp. range	Room temp. +10 deg.C to 500 deg.C
Temp. adjustment accuracy	+/-0.2 deg.C (at 360 deg.C)
Temp. distribution accuracy	+/-3 deg.C (at 300 deg.C), +/-5 deg.C (at 500 deg.C)
Time to attain max. temp.	60 min.
Configuration	
Interior/external material	Stainless steel plate 2t/electrogalvanized steel (epoxy/melamine coated)
Heater/heat insulator	SUS pipe, glass wool, ceramic fiber
Heater capacity	7.8 kW
Fan	Propeller fan
Fan motor	Condenser motor 20W
Exhaust port	I.D. 50 mm (with damper) One on the back rear
Heater control	SSR control
Sensor	K-thermocouple (both for temperature controller and overheat preventive unit)
Damper	Manual convection and ventilation
Function	
Safety functions	Self diagnostic function (temp. sensor error, heater disconnection, SSR short-circuit, automatic overheat prevention, and other functions of CR5) key lock, program lock, independent overheat protection within the bath, independent heater room overheat prevention, over-current electric leakage breaker, temp. fuse, alarm terminal
Other functions	Standard functions: RS485 external communication (supports FORWARD), external alarm, time-up, and output on the logger
Standards	
Power supply (50/60Hz)	Three phase: AC200V, 23A
Internal capacity	216 L
External dimensions*2	1,350 x 950 x 1,300 mm (W x D x H)
Internal dimensions	600 x 600 x 600 mm (W x D x H)
Equipment weight	Approx. 250 kg
Shelves (included)	Stainless steel wire x 3, shelf pegs x 6
Shelf loading	Approx. 30 kg/each
Number of shelf steps/shelf pitch	9 steps/60mm

*1 Conditions: Temperature and humidity: 23 deg.C +/-5 deg.C, 65%RH +/-20% (no load)

*2 External dimensions do not include protrusions.

■ Control panel CR5



Major functions

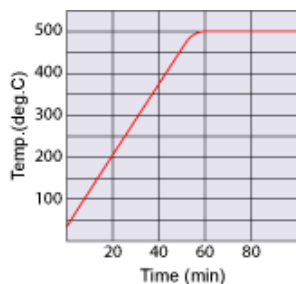
Operation modes

1. Fixed operation
2. Fixed auto stop operation
3. Fixed quick auto stop operation
4. Fixed auto start operation
5. Program operation
6. Program auto start operation

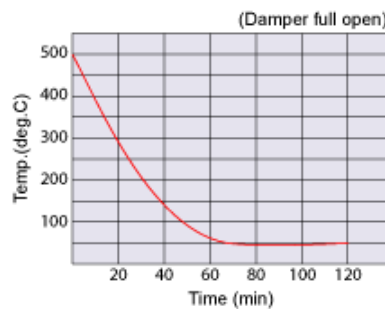
Useful functions

- Wind amount adjustment function (10 steps)
- Automatic open/close damper function
- Display switching during operation
- Heater output operation amount display
- Program name setting
- Operation guide function, etc.

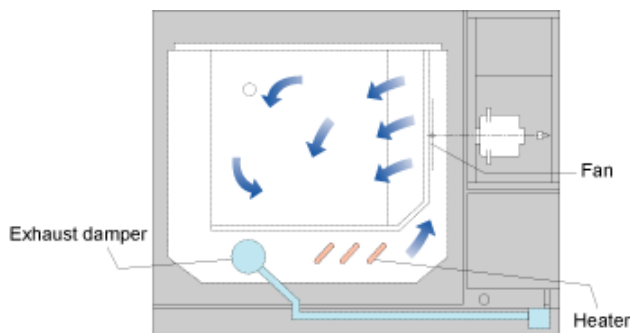
■ Temp. rise curve



■ Temp. decrease curve



■ Construction diagram



■ Shelf (stainless steel wire)



■ Optional items

Description	Model No.	Product Code
RS485-232C conversion adaptor	DH650	281126
Application software FORWARD	DH650	281501
Wire shelf/shelf peg	DH650	211064
Cable port of I.D. 25 mm	DH650	281508
Cable port of I.D. 50 mm	DH650	281509
RM hybrid recorder (6 Ch)	DH650	281017
PHR video chart recorder (6 Ch)	DH650	281019
T-thermocouple sensor for recorder 2m	DH650	281554
T-thermocouple sensor for recorder 2m (with calibration certificate)	DH650	281555

■ Dimensional drawing (mm)

