

Forced Convection Ovens | Precision, Vertical

DFS710C/810C, DHS710C/810C

Forced
ConvectionAutomatic
Overheating
PreventerIndependent
Overheating
PreventerSelf-diagnostic
FunctionKey Lock
FunctionPower Failure
Compensation
FunctionOvercurrent
Leakage Circuit
Breaker

Operating temp. range DFS: RT+10~260°C DHS: RT+10~360°C

Temp. deviation DFS: ±4°C(at 260°C) DHS: ±5°C(at 360°C)

Internal capacity 418L 558L

A precision large-capacity constant temperature oven suitable for various temperature characteristic experiments.

Features

Space-saving and large capacity design allows for high-precision temperature control and adaptation to a wide range of temperature variations, applicable for various thermal processing and temperature experiments.

- The space-saving design with the control panel positioned at the top effectively uses the space in experimental rooms and production lines.
- The control panel's key input is dialog-based, making it simple for anyone to complete the settings. The internal temperature during operation can be visually displayed through LED.
- Equipped with various operational functions, primarily program operation. Current functions can be enhanced through options.
- Despite being a large capacity machine, it also features high-performance temperature regulation accuracy. Additionally, control accuracy and drying characteristics are not affected even during venting operation.



Specifications

| Model | DFS710C | DFS810C | DHS710C | DHS810C | |
|--------------------------|--|--|-------------------|----------------------|-------------------|
| System | Forced convection and ventilation | | | | |
| Performance | Operating temp. range | Room temp. +10~260°C | | Room temp. +10~360°C | |
| | GB standard | Temp. fluctuation | ±0.5°C (at 260°C) | | ±1.0°C (at 360°C) |
| | | Temp. deviation | ±4°C (at 260°C) | | ±5°C (at 360°C) |
| | JTM standard | Temp. adjusting accuracy | ±0.2°C (at 260°C) | | ±0.3°C (at 360°C) |
| | | Temp. distribution accuracy | ±2.0°C (at 260°C) | | ±3.0°C (at 360°C) |
| Max. temp. reaching time | Approx. 50min | | Approx. 60 min | | |
| Composition | Interior material | Stainless steel plate | | | |
| | Exterior material | Cold rolled steel plate with chemical proofing coating | | | |
| | Insulating material | Aluminosilicate cotton | | | |
| | Heater | Stainless steel heating tubes with fins | | | |
| | | 4.5 kW | 5.4 kW | 6 kW | |
| | Fan blade/motor | Centrifugal fan blades (with temperature insulation coating)/motor rated at 120W | | | |
| Cable port | Inner diameter: 30mm, located on the right | | | | |
| Controllers | Temp. control method | PID control | | | |
| | Temp. setting method | Digital setting through special function menu keys and ▲/▼ keys | | | |
| | Temp. display method | Achieved temperature display: Green 4-digit LED, digital display Setting temperature display: Red 4-digit LED, digital display | | | |
| | Timer | 1 min~99 h 59 min and 100~999 h | | | |
| | Operation functions | Fixed temp. operation, auto start, quick auto stop, auto stop, program operation | | | |
| | Program mode | Program operation: Programmable controller with 3 modes (30 segments×1, 15 segments×2, 10 segments×3) | | | |
| Specifications | Additional functions | Deviation correction function, key locking function, power outage compensation function | | | |
| | Sensors | K thermocouple (Temp. controller and overheating protector) | | | |
| | Safety device | Self-diagnostic circuits (temperature sensor anomaly, heater disconnection, automatic overheating prevention, SSR short circuit), independent overheating prevention device, leakage protection, door switch, control cabinet switch | | | |
| Specifications | Internal dimensions (W×D×H mm) | 620×750×900 | 620×750×1200 | 620×750×900 | 620×750×1200 |
| | External dimensions (W×D×H mm) | 770×965×1622 | 770×965×1922 | 770×965×1622 | 770×965×1922 |
| | Internal capacity | 418L | 558L | 418L | 558L |
| | Shelf load | 30kg/layer | | | |
| | Shelf layers | 27 layers | 37 layers | 27 layers | 37 layers |
| | Shelf plate spacing | 30mm | | | |
| | Power supply (50/60Hz) rated current | Single phase AC220V 21A | | 3-phase AC380V 10A | |
| Weight | Approx. 150kg | Approx. 170kg | Approx. 150kg | Approx. 170kg | |
| Accessories | Shelf plates (2 stainless steel wire mesh plates), shelf supports (4) | | | | |
| Options | Shelf plates, viewing windows, micro printers, data loggers, N ₂ introduction devices, abnormal alarm indicator lights, emergency stop switch, power failure manual recovery selection, cable ports (50/100mm), exhaust vents (80mm), exhaust flanges, automatic dampers, temperature output terminals, external alarm output terminals, timer output terminals, central monitoring software, touch screen controller | | | | |

Internal chamber



Shelf



1 Sterilizers

2 Granulation and Spray Dryers

3 Furnaces

4 Ovens

5 Incubators

6 Plasma Equipment

7 Water Purifiers

8 Baths

9 Water Circulators

10 Rotary Evaporators

11 Stirrers & Shakers

12 Options