

ARTISAN®
TECHNOLOGY GROUP

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Model DX-300/400/600

Gravity Convection Oven Series

1.0 / 2.6 / 5.4 cu. ft.

The Yamato DX Series Gravity Convection Ovens feature a maximum temperature of 300°C that is especially suitable for dry sterilization. These ovens are equipped with a state-of-the-art HiTEC® IV FR Type 1 microprocessor PID temperature controller for simple, accurate operation. The HiTEC® IV FR Type 1 controller allows one preset temperature to be stored in memory. By the touch of a key, you can display your set temperature or the actual measured temperature at any time.

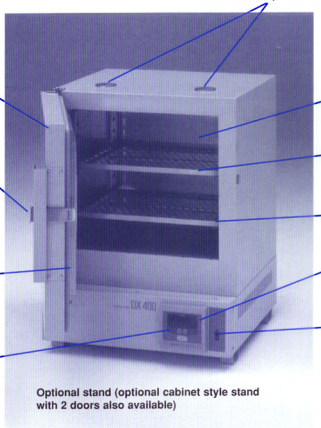
The self-diagnostic function alerts users both visually and audibly if the temperature sensor, triac or heater malfunctions. At that time, the heater circuit will automatically turn off.

All models have a Type 304 (18-8) Stainless Steel interior, as well as a cold rolled carbon steel exterior finished with baked melamine for durability and appearance. Stains from splashes, fumes or chemicals can be simply wiped clean with alcohol. Maximum performance is backed by our 24 month limited warranty policy.

Retrofits

Yamato Scientific has the ability to customize ovens to meet your diverse requirements and applications. A few examples of retrofits performed at our facility are:

- Adjustable overtemperature control
- Temperature output terminal
- Cable port
- Temperature Recorder (24 hr / 7 day)



Yamato

Model DX-300/400/600
Gravity Convection Oven Series
SPECIFICATIONS

MODEL	DX-300	DX-400	DX-600
Operating Temperature Range	Ambient +5°C to 300°C		
Temperature Controller	Microprocessor PID, HiTEC® IV FR Type 1		
Safety	Built in Self-Diagnostics and Back-up circuit breaker		
Time to reach maximum temp.	Approx. 45 minutes	Approx. 60 minutes	Approx. 80 minutes
Sensor	Platinum Thermoresistance Element		
Chamber Size (cu ft)	0.9	2.6	5.4
Interior Dimensions (in.)	11.8 x 12.2 x 11.8	17.7 x 16.1 x 15.7	23.6 x 20.0 x 19.7
Interior Dimensions (cm)	30.0 x 31.0 x 30.0	45.0 x 40.9 x 39.9	60.0 x 50.8 x 50.0
Exterior Dimensions (in)	15.7 x 17.3 x 24.8	21.6 x 21.2 x 28.7	27.6 x 25.2 x 32.7
Exterior Dimensions (cm)	39.9 x 43.9 x 63.0	54.9 x 53.9 x 72.9	70.1 x 64.0 x 83.1
Interior Material	Type 304 (18-8) Stainless Steel		
Exterior Material	Cold rolled carbon steel finished w/ baked melamine resin		
Insulation Material	Rock wool		
Power Supply	115V AC, 9.5A, 50/60 Hz	115V AC, 14A, 50/60 Hz	115V AC, 14A, 50/60 Hz
Heater (kW)	0.9	1.36	
Maximum shelf load (lb / kg)	33 lb / 73 kg		
No. of shelves / supports included	2 / 4		
Space between shelves (in / cm)	1.4 in / 3.6 cm		
Maximum number of shelves	6	9	12
Net Weight (lb / kg)	Approx. 51 lb / 113 kg	Approx. 84 lb / 185 kg	Approx. 123 lb / 271 kg

HiTEC® IV FR Type 1 Controller

HiTEC® IV FR Type 1 Microprocessor Temperature Controller meets all of your basic needs. Desired temperature is set through the key pad and set/measurement temperature can be checked through the 4 digit LED display.



- PID (Proportional Integral Derivative) temperature control is standard
- Digital set and read parameters are included
- Self-diagnostic circuitry - The HiTEC® "watch dog" circuitry monitors any abnormality of temperature sensor, triac, heater or fan motor. If an abnormal function is to occur, the microprocessor visually and audibly alarms the user. At that time, the heater will automatically turn off for safety.
- A preset temperature can be stored through the memory by turning the circuit breaker on, selecting a desired temperature and pressing enter.
- Temperature can be simply set by pressing the touch key.

Yamato Lab Tech's Quality Control System is ISO 9001 Certified

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