

**Laboratory Drying Ovens, Constant Temperature  
DX302/402/602**



DX402/602

- Voluntary temperature (one point) can be memorized.
- Fixed setting, Quick Auto stop, Auto stop, and Auto start operating modes are possible, along with easy control capabilities.
- Equipped with self-diagnostic function.
- Safety measures are enriched, including self-diagnosis function.

**Natural convection ovens of standard type.**

The DX series represents a standard type of natural convection constant temperature drying ovens. They are equipped with a newly developed easy operation controller, and digital setting and indication method by up and down key input is adopted.

Model		
302	402	602
Operating Temperature Range		
Room temp. +10deg.C to 300 deg.C		Room temp. +5deg.C to 280 deg.C
Temp. Distribution Accuracy		
±10deg.C(at300deg.C)		
Internal Capacity (L)		
28	74	153

## ■ Specifications

Model	DX302	DX402	DX602
<b>Performance</b>			
Circulation method	Natural convection		
Operating temperature range	Room temp. +5 to 300deg.C		Room temp. +5 to 280 deg.C
Temp. control accuracy Temp. distribution accuracy	±1.0deg.C(at 300deg.C) ±10deg.C(at 300deg.C)		±1.0deg.C(at 280deg.C) ±10deg.C(at 280 deg.C)
Max. temp. reaching time	Aprox. 45 min.	Aprox. 60 min.	Aprox. 80 min.
<b>Components</b>			
Interior material	Stainless steel		
Exterior material	Electro-galvanized steel sheet with melamine resin baking finish		
Heat insulating material	Glass wool		
Heater	Iron-chrome wire heater, 0.9 kW	Iron-chrome wire heater, 1.36 kW	
Exhaust port	34 mm I.D. x 2 pcs. ( the top)		
<b>Controller</b>			
Temp. controller	PID control by microprocessor		
Temp. setting method	Digital setting by UP/DOWN key		
Temp display method	Measurement temp. : Digital display by green LED Setting temp. : Digital display by red LED		
Timer	1 min. to 99 Hrs. 59 min. and 100 Hrs. to 999 Hrs. 50 min.		
Operation function	Fixed temperature operation, Quick auto stop, Auto stop, Auto start		
Additional functions	Calibration off-set, Uninterruptible power for memory		
Heater circuit control	SSR control		
Temp. sensor	K-thermocouple		
<b>Safe Device</b>			
Safety countermeasures	Self diagnosis functions(Temp. Sensor abnormal, Abnormal memory, Meas. temp. abnormal, Automatic overheat prevention), Key lock function, Overheat prevention, Electric leakage breaker with over current protection		
<b>Standard</b>			
Internal dimensions (W×D×Hmm)	300×310×300	450×410×400	600×510×500
External dimensions (W×D×Hmm)	400×440×630	550×540×730	700×640×830
Internal capacity	28 liters	74 liters	153 liters
Shelf plate with standard load	Approx. 15 kg/piece		
Shelf rest step number	6 steps	9 steps	12 steps
Shelf rest pitch	35 mm		
Power source 50/60Hz	100V/220V, single phase, 9.5A/4.3A	100V/220V, single phase, 14A/6.4A	100V/220V, single phase, 14A/6.4A
weight	Approx. 23 kg	Approx. 38 kg	Approx. 56 kg
<b>Accessories</b>			
Shelf plate	Stainless steel, 2 pcs.		
Shelf bracket	4 pcs. (1 pair - 2 pcs. is fixed)		

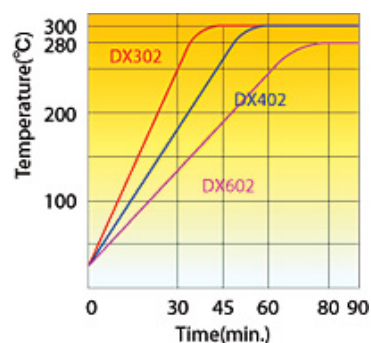
\*The performance shown here is the value under the condition of the ambient temperature of 23deg.C±5deg.C, humidity of 65%RH±20%.

\*The projection is not included for Internal dimensions and External dimensions.

## ■ Control Panel



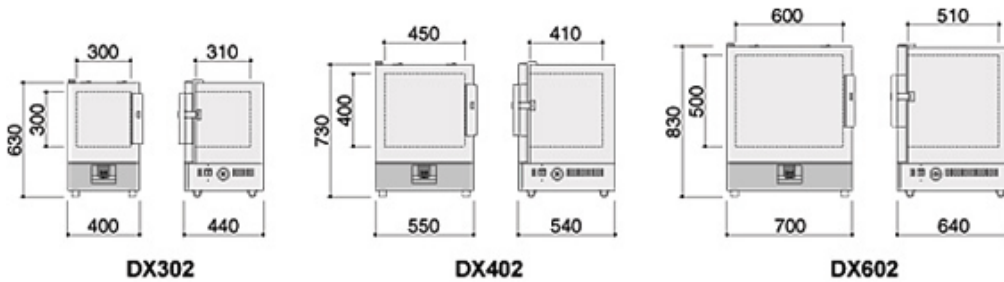
## ■ Temp.Rising Curve



■ Interior



■ Dimensional Drawing (mm)



■ Optional items

Remark	Description	Model No.	Product Code
○	Stand for DX302, ONS30	DX Series	212801
○	Stand for DX402/602, ONS60	DX Series	212802
	Stacking support for DX302, ODK80	DX Series	212803
	Stacking support for DX402, ODK82	DX Series	212804
	Stacking support for DX602, ODK84	DX Series	212805
	Shelf (with support) for DX302	DX Series	212094
	Shelf (with support) for DX402	DX Series	212095
	Shelf (with support) for DX602	DX Series	212266
●	Cable port, 25mm dia	DX Series	281009
●	Cable port, 50mm dia	DX Series	281010

Note:

1. The item marked "●" in the column of "Remark" shall be ordered together with the main unit.
  2. The transportation cost will not be required if the order is together with main unit except the item marked "○".
- In case you order the item marked "○" together with the main unit, please ask Yamato to obtain the correct transportation cost.

Stand



ON Model

Mounting Parts



**Shelf (with 2 support)**



Stainless Punching Metal (Weight Tolerance 15kg/pc)