

# Programmable Natural Convection Oven

Constant Temperature Ovens

**DVS402C/412C/602C/612C**

Operating temp. range

Room temp. +5~260°C

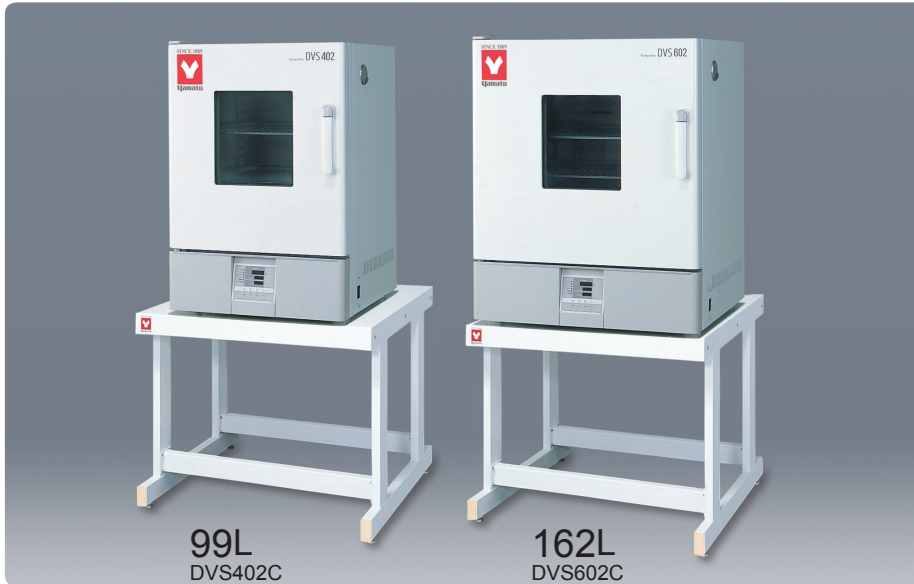
Temp. distribution accuracy

±5°C (at 260°C)

Internal capacity

99L (402C/412C)  
162L (602C/612C)

Highly practical standard and programmable ovens



99L  
DVS402C

162L  
DVS602C

(Stands optional)

## Specifications

Model	DVS402C	DVS412C	DVS602C	DVS612C
Circulation method	Natural gravity convection			
Operating temp. range	Room temp.+5 to 260°C			
Temp. control accuracy	±1.0°C (at 260°C)			
Temp. distribution accuracy	±5.0°C (at 260°C)			
Max. temp. reaching time	~90 min. (Room temp. +5°C~260°C)			
Interior material	Stainless steel			
Exterior material	Cold rolled steel plate with melamine resin baking finish			
Heat insulating material	Glass wool			
Heater	Stainless pipe heater 1.2kW		1.36kW	
Observation window	250×280 mm Chemically strengthened glass x 3			
Cable hole	30 mm I.D.×1 pcs.(right side)			
Exhaust port	30 mm I.D.×2 pcs.(on top)			
Temp. controller	3 patterns program controller, PID control by microprocessor			
Temp. setting method	Operation menu key and 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, Program operation, Auto start, Auto stop, Quick Auto-stop,			
Program mode	Program operation: 6 pattern, 30 steps (30 steps×1, 15 steps×2, 10 steps×3)			
Additional functions	Calibration off-set function, Key lock, Uninterruptible power for memory, Pattern repeat function			
Heater circuit control	SSR control			
Sensor	K-thermocouple			
Safety device	Self diagnosis functions (temp. sensor abnormal, Heater disconnection, SSR- short, Memory abnormal, Automatic overheating prevention), Overheat prevention, Electric leakage breaker with over current protection			
Internal dimensions (W×D×Hmm)	450×490×450		600×540×500	
External dimensions(W×D×Hmm)	560×601×820		710×651×870	
Internal capacity	99L		162L	
Shelf plate load	~15kg / pcs.			
Shelf rest step number / pitch	9 steps / 30mm		13 steps /30mm	
Power source 50/60Hz	AC115V 12A (15A) with plug	AC220V 6.5A no plug, round terminal	AC115V 13.5A (20A) with plug	AC220V 7.5A no plug, round terminal
Weight	~48kg		~63kg	
Shelf plate / Shelf bracket	Stainless steel, 2 pcs. / 4 pcs.			

Programmable natural convection, constant temperature oven with quickly performed program settings

## Operation and functions

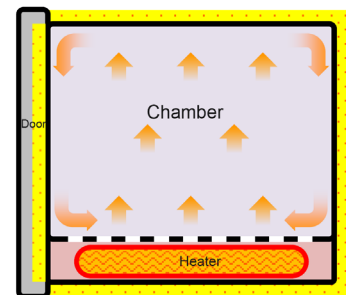
- Excellent temperature accuracy
- Easy to use and maintain
- Equipped with a 6 pattern PID program controller with easy program settings (30 steps x 1, 15 steps x 2, 10 steps x 3)
- Simultaneously display of set constant and measured temperature
- Quick Auto stop, Auto Start / Stop operation
- Increased safety and self-diagnostic function
- With calibration off-set function

## Safety features

- Self diagnosis functions (Temp. sensor abnormal, Heater disconnection, Internal communication error, temperature input circuit abnormality, Automatic overheat prevention function, SSR-short), Overheat prevention, Electric leakage breaker with over current protection

## Method

[Side view]

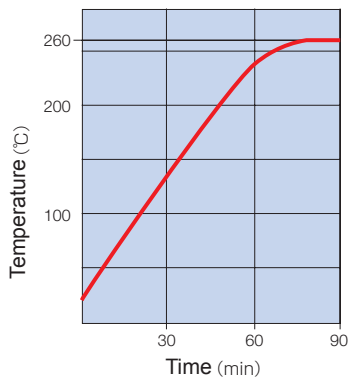


## Interior (DVS402C)



- Enhanced sealing function by adopting heat resistant silicon rubber packing, which ensuring a stable performance.
- Stainless steel interior material, high corrosion resistance for easy cleaning.

## Temp. Rising Curve



## Optional Items

Description	Product code
Stand ON61	211856
Stacking support	
OD40 for DVS402C/412C	212822
OD60 for DVS602C/612C	212823
Shelf (with support 2 pcs)	
For DVS402C/412C	212246
For DVS602C/612C	212266
*Cable Port	
25mm dia	281131
50mm dia	281132
*Temperature output terminal (4-20 mA)	281133
*External alarm terminal/ time-up output terminal (choose either)	281134
*External communication function (RS485)	281135
*External communication adapter (changeable to RS232C)	281136
Seismic mat	296902

\* Please specify when ordering main unit.

## Control Panel



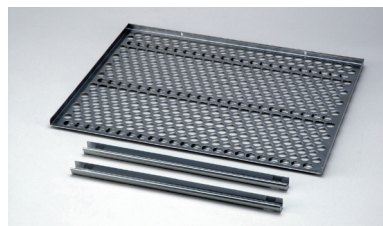
## Cable Port (Standard)



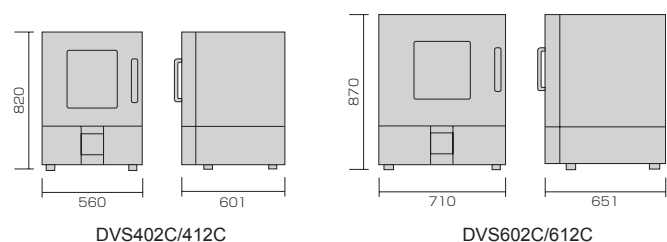
## Exhaust Port (Standard)



## Shelf Plate / Shelf Bracket



## Dimensions (Unit:mm)



**⚠ Attention** ● Never use in flammable or explosive gas atmosphere.  
● Never use explosive or flammable material.

● Caution: High temperature components.