

Programmable Natural Convection Oven

Constant Temperature Ovens

DVS402C/412C/602C/612C



Operating temp. range

Room temp. +5~260°C

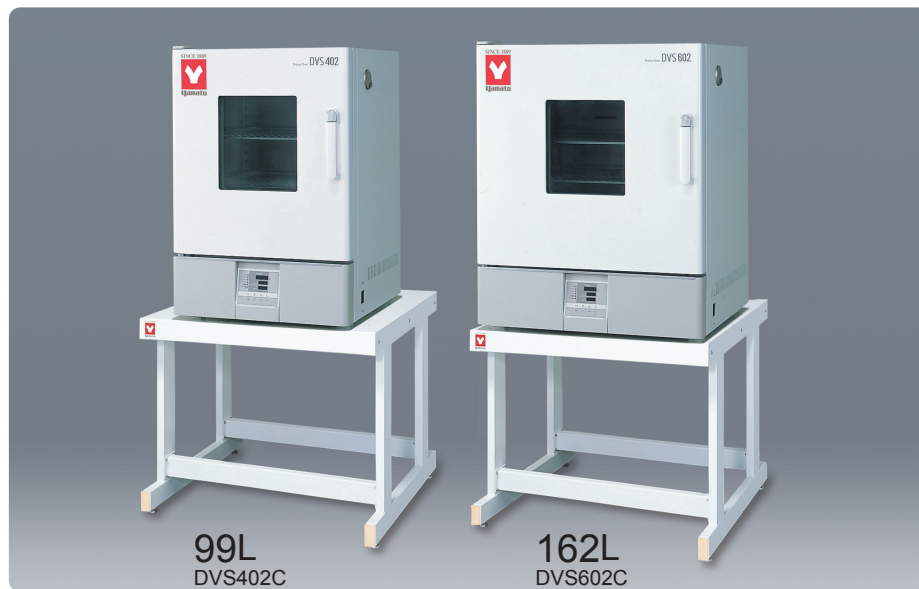
Temp. distribution accuracy

±5°C (at 260°C)

Internal capacity

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

Programmable standard ovens with easy to perform program settings



(Stand optional)

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)
- Simultaneous display of set constant and measured temperature
- Quick Auto stop, Auto Start / Stop operation
- Increased safety and self-diagnostic function
- With calibration offset function

Safety features

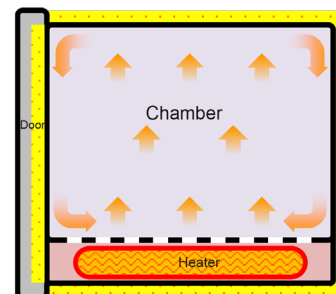
- Self diagnosis functions (Temp. sensor abnormal, Heater disconnection, Internal communication error, temperature input circuit abnormality, Automatic overheat prevention function, SSR-short), Overheat prevention, Electric leakage breaker with over current protection

Specifications

| Model | DVS402C | DVS412C | DVS602C | DVS612C |
|--------------------------------|---|---|---------------------------|---|
| Circulation method | Natural 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 ▲/▼ 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, Program, 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×H) | 450×490×450 mm | | 600×540×500 mm | |
| External dimensions (W×D×H) | 560×601×820 mm | | 710×651×870 mm | |
| 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 with plug | AC220V 6.5A no plug, round terminal | AC115V 13.5A with plug | AC220V 7.5A no plug, round terminal |
| Weight | ~48kg | | ~63kg | |
| Included accessories | Stainless steel, 2 pcs. shelf plate / 4 pcs. brackets | | | |

Method

[Side view]

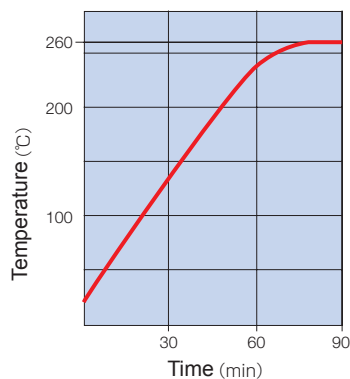


Interior (DVS402C)



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

Temp. Rising Curve



Control Panel



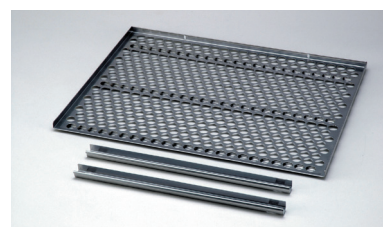
Cable Port (Standard)



Exhaust Port (Standard)



Shelf Plate / Shelf Bracket

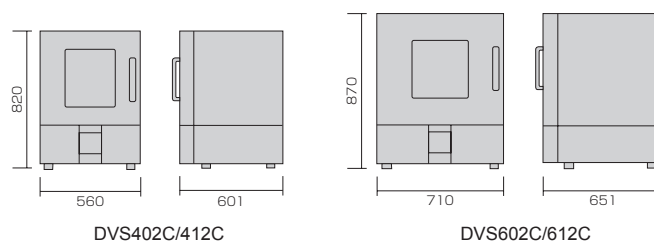


Optional Items

| Description | Product code |
|---|--------------|
| Stand OA194 | 281596 |
| 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 Ø | 281131 |
| 50mm Ø | 281132 |
| *Temperature output terminal (4-20 mA) | 281133 |
| *External alarm terminal/ time-up output terminal (choose either) | 281134 |
| Seismic mat | 296902 |

* Please specify when ordering main unit.

Dimensions (Unit:mm)



Attention

- Never use in flammable or explosive gas atmosphere.
- Never use explosive or flammable material.

● Caution: High temperature components.