

SINCE 1889



Natural convection dryer with programmed operation/observation window.

Constant Temperature Drying Oven

DVS403/603

Can be used for a variety of purposes, such as equipment drying and temperature testing.

Features

- A new type controller is equipped which is simple and easy to use.
- Natural convection type that can also be used for temperature testing of samples that are easily scattered by wind.
- Available for normal outlets
- Safety features such as self-diagnostic function, overload protector, earth leakage breaker and other safety features as standard equipment.

Large observation window
(W250mm×H280mm)



99 L DVS403

162 L DVS603

Specifications

Model		DVS403	DVS603
Product code		212894	212895
Method		Natural convection	
Performance ^{*1}	Operating temp. range	Room temp.+5 to 260°C	
	Temp. control accuracy / Temp. fluctuation	±1°C(at 260°C) JTM K05 / JIS 3°C at 260°C	±1°C(at 260°C) JTM K05 / JIS 4°C at 260°C
	Temp. distribution accuracy / Temp. gradient	±5°C(at 260°C) JTM K05 / JIS 25°C at 260°C	±5°C(at 260°C) JTM K05 / JIS 17°C at 260°C
	Max. temp. reaching time	Approx. 75 min.	Approx. 90 min.
Structure	Interior material	Stainless steel plate	
	Exterior material	Electrogalvanized steel sheet baked painting	
	Heat insulating material	Glass wool	
	Heater	Stainless pipe heater	
	Heater capacity	1.2kW	1.36kW
	Observation window	250×280 mm chemically strengthened glass×3	
	Cable hole	30mm×1 (right side)	
Exhaust port	Inside diameter 30mm×2 (top) with lid (opening ratio 20% when closed)		
Controller	Temp. control method	P.I.D. control	
	Timer	0 min. to 99 hr. 59 min. and 100 to 999 hr. 50 min. (with timer wait function, ON/OFF available)	
	Operation functions	Fixed temp. operation, program operation, quick auto stop, auto stop, auto start, program auto start operation	
	Program mode	Program operation 6 pattern selection (Program 1 : 30 steps, Program 2 to 3 : 15 steps, Program 4 to 6 : 10 steps) Step weighting function, repeat function, step hold function, step skip function	
	Additional functions	Calibration offset function / Setting value lock function / Power failure recovery mode selection function	
Sensor	K thermocouple (for temp. control, for independent overheat protection)		
Safety device		Self-diagnostic function (automatic overheat protection, temp. sensor error, heater disconnection, SSR short circuit, main relay failure, memory error, internal communication error, measurement temp. error) / overheat protection / overcurrent leakage breaker	
Standards	Shelf plate withstand load	15kg / piece (total load capacity : 30kg)	
	Shelf support pitch	30mm	
	Shelf support step number	9 steps	13 steps
	Internal capacity	99L	162L
	Internal dimensions ^{*2}	W450×D490×H450mm	W600×D540×H500mm
	External dimensions ^{*2}	W560×D601×H820mm	W710×D651×H870mm
	Power source (50/60Hz)	AC 220V Single-phase with step down transformer	
Weight	Approx. 48kg	Approx. 63kg	
Accessories	Shelf plate×2 ^{*3} (stainless steel punching metal) / with 4 shelf supports		

*1 The performance is based on a power supply of 100 VAC, room temperature of 23°C±5°C, humidity of 5% RH±20%, and no load. The ambient temperature range of this product is 5 to 35°C.

*2 Protruding parts are not included. *3 The bottom shelf is fixed with screws.

Yamato Scientific Co., Ltd.

Optional Items

	Product name	Model	Product Code	Applicable model	
				DVS 403	DVS 603
Normal options	Stand	ON61	211856	●	●
	Stacking support	OD40	212822	●	
		OD60	212823		●
	Seismic mat	-	296902	●	●
Shelf plate (load capacity: 15kg) Stainless steel punching metal, 1 pc. / with 2 shelf supports	-	212246	●		
	-	212266		●	
Factory-installed options *1	Cable hole (inner diameter 25 mm)	-	281131	●	●
	Cable hole (inner diameter 50mm)	-	281132	●	●
	External communication terminal (RS485)	OA019	281175	●	
		OA024	281185		●
	External communication adapter set USB/RS485 converter + connection cable included	OA017	281146	●	●
	External alarm terminal No-voltage A contact output	OA020	281176	●	
		OA025	281186		●
	Time-up output terminal No-voltage A contact output	OA021	281177	●	
		OA026	281187		●
	Temperature output terminal 4 to 20mA	OA022	281178	●	
		OA027	281188		●
	Independent overheat preventer	OA023	281184	●	
		OA028	281189		●

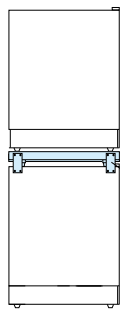
*1 Please contact us regarding the delivery date.

Q & A DVS403/603

Q There is an exhaust port at the top, but is it possible to exhaust heat from two-stage stacked

By using the optional stacking support, it is possible to stack two of the same model. The stacking support has a space for the exhaust heat of the lower part to escape, and the partition plate is insulated to prevent heat from being transferred to the upper part.

[Back view]



Stacking support (Option)

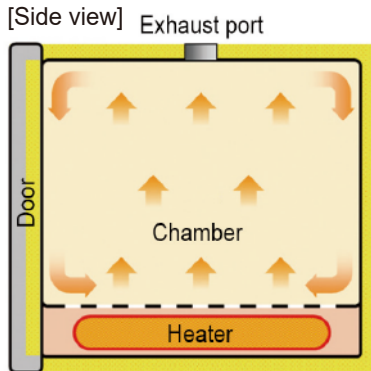


Stacking support

Method

Natural convection

Drying efficiency is lower than air circulation type, but suppresses the scattering of particulate matter.



Learn more about
DVS 403/603 ▼



DVS403



DVS603



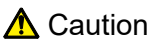
New controller for easy operation.



Exhaust port
(standard equipment, top)



Cable hole 30mm
(standard equipment, right side)



Caution

The specifications and performance figures of the products listed in this catalog are presented as a user guide under general operating conditions. When using the product, please understand the contents of the instruction manual and use the product correctly. Please note that we cannot be held responsible for any damage to persons or property caused by using the product outside the conditions of use described in the instruction manual.

- Specifications and appearance are subject to change for improvement without prior notice.
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