Industrial & Laboratory Clean Ovens, Class100
DE/DT/DE-U Series

DE410/610, DT410/610, DE410U/610U have been discontinued.

DE410/DT610

- With the models DE and DT, the cleaning degree of class 100 on the inside is available when the temperature on the inside is stable at high temperature up to 260deg.C (DE) and 360deg.C (DT).
- With the model DE-U, the cleaning degree of class 100 can be maintained when the temperature on the inside is stable, as well as when the temperature is Rise-up and down.
- 16-segment programming is possible.

For class 100 Environment.
High-performance machines are lined up, which prevent the production of fine dust when the temperature on the inside is stable, as well as when the temperature is going up or down.

Model		
DE	DT	DE-U
Operating Temperature Range		
260 deg.C	360 deg.C	200 deg.C
Temp. Distribution Accuracy		
±2.5 deg.C (at260 deg.C)	±4.0 deg.C (at360 deg.C)	±4.0 deg.C (at200 deg.C)
Clean Level		
Class100		
Internal Capacity		
91L /216L		

■ Specifications

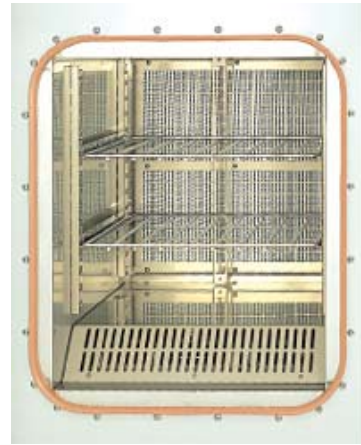| Model	DE410	DE610	DT410	DT610	DE410U	DT610U
Performance						
Circulation method	Forced air circulation					
Operating temperature range	Room temperature +30deg.C to 260deg.C		Room temperature +30deg.C to 360deg.C		Room temperature +50deg.C to 200deg.C	
Temp. adjustment accuracy	±0.3deg.C(at 260deg.C)		±0.3deg.C(at 360deg.C)		±0.3deg.C(at 200deg.C)	
Temp. distribution accuracy	±2.5deg.C(at 260deg.C)		±4.0deg.C(at 360deg.C)		±4.0deg.C(at 200deg.C)	
Max. temp. reaching time	Approx. 70 min. (to 260deg.C)	Approx. 60 min. (to 260deg.C)	Approx. 80 min. (to 360deg.C)		Approx. 60 min. (to 200deg.C)	
Clean level	Class 100 (when the temperature is stable)				Class 100 (when the temperature is stable, as well as is going up or down)	
Components						
Interior Material	Stainless steel					
Exterior	Cold rolled steel plate with melamine resin baking finish					
Heat insulating material	Glass wool		Ceramic fiber		Glass wool	
Stainless pipe heater	2.5kW	3.6kW	3.6kW	5.2kW	2.5kW	3.6kW
Fan type	Scirocco fan, Condenser type motor 400W					
Differential pressure meter	Analog type (0 to 500 Pa)					
Cable hole	30 mm I.D. (right side)					
Additional functions	Exhaust damper (manual type) 61mm O.D.					
Filter	Heat resistant HEPA filter (dust collect : more than 99.97% at 0.3μm)				High performance HEPA filter (dust collect : more than 99.97% at 0.3μm)	
Controller						
Temp. controller	PID control by micro processor					
Temp. settin method	Digital setting with UP/DOWN key					
Temp display method	Digital display					
Other display	Operation monitor (operation condition graphic display by LED patterns)					
Timer	1 min. to 99 Hrs. 59 min. and 100 Hrs. to 999 Hrs.					
Operation function	Fixed temp., Auto-start, Auto-stop, Program operation (16 segments)					
Additional functions	Timer (max. 24Hr.), Integration (max. 49999Hr.), Calibration off-set, time					
Heater circuit control	Triac zero-cross control					
Temp. sensor	K-thermocouple (double sensor)					
Safe Device						
Safety countermeasures	Self diagnosis functions (sensor, heater, triac, automatic overheating prevention), Key lock, Independent overheating prevention, Door switch, Electric leakage breaker					
Standard						
Internal dimensions (W×D×Hmm)	450×450 ×450	600×600 ×600	450×450 ×450	600×600 ×600	450×450 ×450	600×600 ×600
External dimensions (W×D×Hmm)	700×1,000 ×1,765	850×1,150 ×1,765	700×1,000 ×1,765	850×1,150 ×1,765	700×1,000 ×1,765	850×1,150 ×1,765
Internal capacity	91 L	216 L	91 L	216 L	91 L	216 L
Shelf plate with standard load	Approx. 30 kg / piece					
Shelf rest step number / pitch	12 steps /30mm	17 steps /30mm	12 steps /30mm	17 steps /30mm	12 steps /30mm	17 steps /30mm
Power source 50/60Hz	200V three phase, 9.5A	200V three phase, 12.5A	200V three phase, 12.5A	200V three phase, 17.5A	200V three phase, 9.5A	200V three phase, 12.5A
Weight	Approx. 220 kg	Approx. 270 kg	Approx. 220 kg	Approx. 270 kg	Approx. 220 kg	Approx. 270 kg
Accessories						
Shelf plate	Stainless steel, 2 pcs	Stainless steel, 3 pcs	Stainless steel, 2 pcs	Stainless steel, 3 pcs	Stainless steel, 2 pcs	Stainless steel, 3 pcs
Shelf bracket	4 pcs	6 pcs	4 pcs	6 pcs	4 pcs	6 pcs

*1 Conditions: temperature and humidity: 23 deg.C+/-5 deg.C, 65%RH+/-20% (no load)

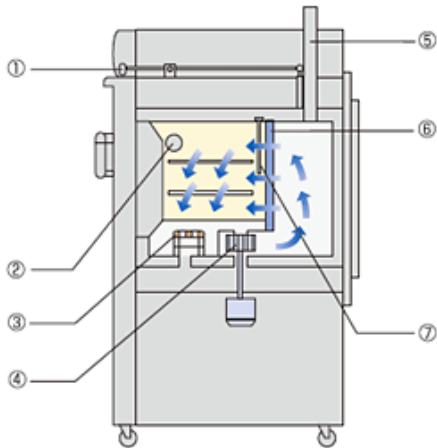*2 External dimensions do not include protrusions.

■ Control Panel

■ Interior

■ Tank figure

① Exhaust dumper , auto damper (option)
② Cable hole   ③ Heater
④ Sirocco fan   ⑤ Exhaust port
⑥ Hepa filter   ⑦ Sensor
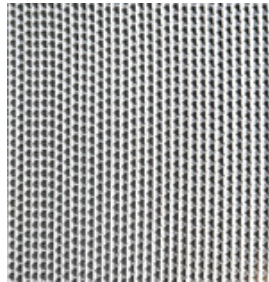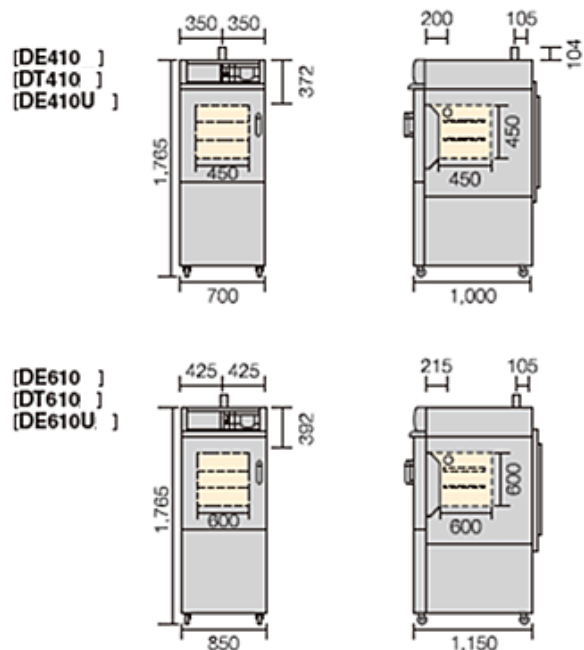
■ Output Terminals

■ Exhaust Duct

■ HEPA Filter

■ Dimensions (Unit:mm)

[DE410]
[DT410]
[DE410U]

[DE610]
[DT610]
[DE610U]

■ Optional Items

Remark	Description	Model No.	Product Code
	Stainless wire shelf (with support 2 pcs., loading up to 30 kg/shelf) for DE/DT410	DE/DT Series	212686
	Stainless wire shelf (with support 2 pcs., loading up to 30 kg/shelf) for DE/DT610	DE/DT Series	212687
	Stainless punching metal shelf (loading up to 15kg/shelf) for DE/DT410	DE/DT Series	212688
	Stainless punching metal shelf (loading up to 15kg/shelf) for DE/DT610	DE/DT Series	212689
	Analog recorder, 6 points type	DE/DT Series	281094
●	Automatic damper	DE/DT Series	281095
●	Emergency stop switch	DE/DT Series	281096
●	Sensor (K-thermocouple)	DE/DT Series	281098
●	Triple sensor	DE/DT Series	281099
●	Silicone stopper (with 1 hole)	DE/DT Series	281100
●	Power cord change, 10m	DE/DT Series	281101
	Power cord change. 5m	DE/DT Series	281102
	Power cord change. 3m	DE/DT Series	281103
●	Manual recovery function from blackout	DE/DT Series	281104
●	Abnormal alarm function	DE/DT Series	281105
●	FORWARD	DE/DT Series	281501
●	N2 gas supply unit	DE/DT Series	281108
●	Temperature output terminal	DE/DT Series	281029
●	External alarm terminal	DE/DT Series	281030
●	Time-up output terminal	DE/DT Series	281031

Note:
The item marked " ● " in the column of "Remark" shall be ordered together with the main unit.

Shelf (with 2 support)

Stainless Wire (Weight Tolerance 30kg/pc)

Stainless Punching Metal (Weight Tolerance 15kg/pc)