

Industrial & Laboratory Clean Ovens DES82/DES82H, DTS82/DTS82H

DES82/DES82H, DTS82/DTS82H have been discontinued.



- The model DES82H maintains a purity degree of class 100 in oven when the temperature is stable, as well as the temperature is going up or down. (The model DTS82H maintains a purity degree of class 500 when the temperature is going up or down.)
- The models DES82/DTS82 maintain a purity degree of class 100 in oven only when the temperature is stable.
- Equipped with various functions, including program operations.
- Safety measures are enriched, including self-diagnosis function and an independent superheating prevention device.

Large-capacity type, permitting of constant temperature treatment in a class 100 environment.

A space-saving and large volume type. A high by effective type which has achieved dust control under fluctuations of temperature is also in our lineup.

Model		
DES/DTS	DES.H	DTS.H
Operating Temperature Range (Room Temp. +50deg.C ~)		
260deg.C /360deg.C	200deg.C	300deg.C
Clean Level		
Class100		Class 100.500
Internal Capacity		
300 L		

■ Specifications

	DES82	DES82H	DTS82	DTS82H
Performance				
Circulation method	Forced convection			
Operating temperature range	Room temperature +50 to 260deg.C	Room temperature +50 to 200deg.C	Room temperature +50 to 360deg.C	Room temperature +50 to 300deg.C
Temp. adjustment accuracy	±0.5deg.C			
Temp. distribution accuracy	±2.0deg.C(at 260deg.C)	±2.0deg.C(at 200deg.C)	±5.0deg.C(at 360deg.C)	±4.0deg.C(at 300deg.C)
Max. temp. reaching time	Approx. 70 min.	Approx. 70 min.	Approx. 90 min.	Approx. 90 min.
Clean level	Class100 (when the temperature is stable)	Class100 (when the temperature is stable, as well as is going up or down)	Class100 (when the temperature is stable)	Class100 (when the temperature is stable) Class500 (as well as is going up or down)
Components				
Interior Material	Stainless steel			
Exterior	Cold rolled steel late with melamine resin baking finish			
Heat insulating material	Ceramic fiber			
Heater	Stainless pipe heater, 6.0kW		Stainless pipe heater, 9.0kW	
Fan type	Scirocco fan, condenser type motor 200W x 2			
Differential pressure meter	Analog type (0 to 500Pa : 0 to 51mm H2O)			
Cable hole	30 mm I.D. (right side)			
Filter	Heat resistance HEPA filter	High performance HEPA filter	Heat resistance HEPA filter	High performance HEPA filter
Controller				
Temp. controller	PID control by micro processor			
Temp. setting 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 (24Hr.), integration (49,999Hr.), external com. terminal (RS422A)			
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, fan, key lock), Independent overheating prevention, Door switch, Electric leakage breaker, Control box switch			
Standard				
Internal dimensions (W×D×Hmm) External dimensions (W×D×Hmm) Internal capacity	610×480×1,100 830×1,078×1,955 300 liters	610×480×1,100 830×1,078×1,955 300 liters	610×480×1,100 830×1,078×1,955 300 liters	610×480×1,100 830×1,158×1,955 300 liters
Shelf plate with standard load	Approx. 30 kg / piece			
Shelf rest step number / pitch	35 steps / 30mm			
Power source 50/60Hz	200/220V, three phase, 25A		200/220V, three phase, 34A	
Weight	Approx. 350 kg			
Accessories				
Shelf plate	Stainless steel, 3 pcs			
Shelf bracket	6 pcs			

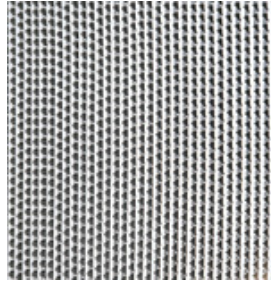
*1 Conditions: temperature and humidity: 23 deg.C+/-5 deg.C, 65%RH+/-20% (no load)

*2 External dimensions do not include protrusions.

■ Control Panel



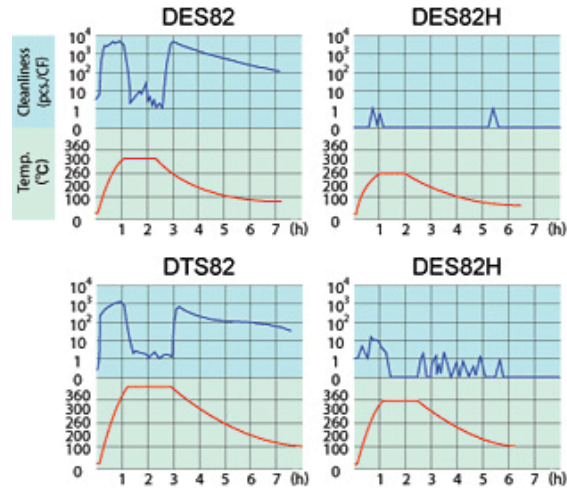
■ HEPA Filter



■ Interior



■ Performance Curve



■ Optional items

Remark	Description	Model No.	Product Code
	Stainless wire shelf with support 2 pcs., loading up to 30 kg/shelf	DES/DTTS Series	212678
	Stainless punching metal shelf (loading up to 15kg/shelf)	DES/DTTS Series	212679
•	Auto damper	DES/DTTS Series	281109
•	Exhaust ducting unit (manual damper)	DES/DTTS Series	281110
•	N2 gas supply unit (with flow meter, 1/4 inch tube fitting)	DES/DTTS Series	281111
•	Additional sensor (K thermocouple)	DES/DTTS Series	281112
•	Analog recorder, 1 point	DES/DTTS Series	281113
•	Analog recorder, 6 points	DES/DTTS Series	281114
•	Power cord 3m	DES/DTTS Series	281115
	Power cord 5m	DES/DTTS Series	281116
	Power cord 10m	DES/DTTS Series	281117
•	Temperature output terminal	DES/DTTS Series	281029
•	External alarm terminal	DES/DTTS Series	281030
•	Time-up output terminal	DES/DTTS Series	281031
•	FORWARD	DES/DTTS Series	281501

Note:

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

Shelf (with 2 support)

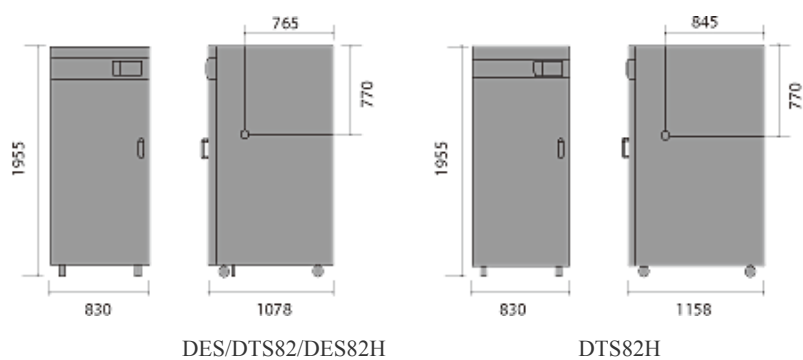


Stainless Wire (Weight Tolerance 30kg/pc)



Stainless Punching Metal (Weight Tolerance 15kg/pc)

■ Dimension (mm)



DES/DTS82/DES82H

DTS82H