

Vacuum Ovens | Multi-function, Touch Panel

DPT40C/60C/80C/100C

- Automatic Overheating Preventer
- Overheating Preventer
- Self-diagnostic Function
- Power Failure Compensation Function
- Overcurrent Leakage Circuit Breaker

Operating temp. range	40~200°C	Operating vacuum range	Atmospheric pressure ~0.1kPa	Internal capacity	91L	216L	512L	1000L
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Touch screen and vacuum degree control, various operating modes, easy operation.



Features

- 7-inch touch screen for easy operation with fixed temp. operation, program operation, and timer operation. Standard 3-level authorization login.
- Multiple pressure operation mode options combined with constant temperature and program operations, allowing for various programs to be designed.
- Gas exchange can be conducted, effectively preventing oxidation and eliminating impurities in the chamber by replacing the chamber air with N<sub>2</sub> gas.
- The box has space for installing a vacuum pump, maximizing effectiveness in limited spaces.
- Quick-connect flange piping method simplifies connections.
- In emergency situations, manual air intake is available.

Safety

- Equipped with self-diagnostic circuit (temperature sensor abnormality, heater disconnection, automatic overheating prevention, SSR short circuit), independent overheating alarm, three-level authority function, and leakage protection switches to prevent overcurrent.

Specifications

Model	DPT40C	DPT60C	DPT80C	DPT100C	
System	Pressure reduction, wall heating				
Performance	Operating temp. range	40~200°C			
	Operating pressure range	Atmospheric pressure ~0.1kPa			
	Temp. fluctuation (GB standard)	±1°C (at 200°C, normal pressure)			
	Temp. adjustment accuracy (JTM standard)	±1°C (at 200°C)			
Composition	Temperature rise time	(RT. ~ 210°C) ≤80min			
	Interior material	Stainless steel plate			
	Exterior material	Cold-rolled steel plate with surface chemical proofing coating			
	Insulating material	Aluminosilicate cotton			
	Heater material	Mica heating plate			
	Heating method	Heating on the external wall			
	Heating power	2.25kW	4.48kW	6.5kW	14.4kW
	Viewing window	Tempered glass + safety protection resin panel			
Controllers	Vacuum pump installation space	Yes			
	Temp. control method	PID control			
	Pressure control method	Deviation control			
	Temp. /pressure setting/display method	7-inch color LCD touchscreen for display and settings			
	Timer	1 min~99 h 59 min			
	Operation functions	Fixed temp. operation, program operation, timing operation			
	Program mode	The program operates in 19 modes and 15 segments			
	Additional functions	Temperature curve, temperature history curve, alarm records, alarm history records, operation log, data export function, Chinese/ Japanese/ English three-language switching, calibration function, screen brightness adjustment, three-level authority function			
Sensors	K-type thermocouple				
Safety device	Self-diagnostic circuit (temperature sensor abnormality, heater disconnection, automatic overheating, SSR short circuit), independent overheating alarm, leakage protection switches, three-level authority function, safety valve				
Specifications	Internal dimensions (W×D×H mm)	450×450×450	600×600×600	800×800×800	1000×1000×1000
	External dimensions (diameter×height mm)	670×670×1525	820×820×1675	1020×1019×1875	1300×1230×2110
	Internal capacity	91L	216L	512L	1000L
	Shelf layers/shelf support spacing	4 layers/105mm	4 layers/140mm	4 layers/190mm	8 layers/120mm
	Shelf load	15kg/layer			
	Exhaust vent	25KF flange		40KF flange	
	Air intake	Rc3/8		Rc1/2	
	Power supply (50/60Hz) rated current	AC220V 10.5A	AC220V 25A	AC380V 18.5A	AC380V 22A
Weight	Approx. 190kg	Approx. 290kg	Approx. 450kg	Approx. 1000kg	
Accessories	Stainless steel punched mesh plate, 2 pieces			Stainless steel punched mesh plate, 4 pieces	
Options	Shelves, vacuum pump, vacuum pump oil, vacuum pump pre-filter, vacuum pump oil-mist filter, vacuum pump exhaust vent, cold trap, N <sub>2</sub> pressure reduction valve, N <sub>2</sub> flow meter, air intake filter, air intake silencer, data logger, combined warning light (standby/running/fault), temperature output terminal (4~20mA), pressure output terminal (4~20mA), external alarm output terminal, pirani vacuum gauge				

Sterilizers	1
Granulation and Spray Dryers	2
Furnaces	3
Ovens	4
Incubators	5
Plasma Equipment	6
Water Purifiers	7
Baths	8
Water Circulators	9
Rotary Evaporators	10
Stirrers & Shakers	11
Options	12