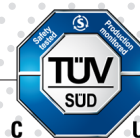


Vacuum Drying Oven

Benchtop to Floor Type Vacuum Drying Oven

SDP300/310/400/410/610



Operating
temp. range

RT +10~220°C
(SDP300/310/400/410)

RT +15~220°C
(SDP610)

Operating
vacuum range

-10 ~ 101 kPa

Capacity

47.2L
(SDP300/310)

127.4L
(SDP400/410)

264L
(SDP610)

Provides exceptional capabilities for fast and gentle drying of heat-sensitive materials

Features

- Digital vacuum gauge shows chamber vacuum level
- Watlow controller that can be programmed to perform multiple ramp and soak profiles
- Doors with positive latch handles with spring-loaded glass to facilitate good vacuum seal
- Tempered glass viewing window allows for safe, continuous monitoring of samples
- Generous usable shelf area
- Achieve impressive vacuum levels
- Built-in overtemperature protection
- Meets TUV safety requirements



47L
SDP300/310



127L
SDP400/410

Specifications

Model		SDP300 SDP310	SDP400 SDP410	SDP610
Operating temperature range		Room temperature +10°C ~220°C		Room temperature +15°C ~220°C
Operating vacuum range		-3.0 ~ -29.9 inHg (-10 ~ 101 kPa)		
Vacuum display range		0.0 ~ -29.9 inHg (5 to -101 kPa)		760 Torr down to 0 mTorr
Controls		EZ-ZONE Watlow		
Access port		KF25		
Temperature uniformity - midrange		± 6.0% of setpoint		
Temperature stability	@ 80°C	± 0.1°C	± 0.2°C	± 0.2°C
	@ 150°C	± 0.20°C	± 0.25°C	± 0.2°C
	@ 220°C	± 0.3°C	± 0.3°C	± 0.3°C
Heat up times (from RT of 20°C for SDP300/400) (from RT of 25°C for SDP610)	@ 80°C	70 mins.	70 mins.	80 mins.
	@ 150°C	120 mins.	120 mins.	130 mins.
	@ 220°C	200 mins.	230 mins.	180 mins.
Cool down times (time to cool down to 50°C)	From 80°C	110 mins.	161 mins.	---
	From 150°C	188 mins.	318 mins.	---
	From 220°C	233 mins.	420 mins.	---
Controller		Digital		
Display resolution		0.1 °C		
Interior material		300 SST		
Exterior material		Painted cold roll steel		
Standard chamber gasket		Silicone		Viton
Internal dimensions		W304 x D508 x H304 mm 12 x 20 x 12 in.	W457 x D610 x H457 mm 18 x 24 x 18 in	W710 x D609 x H609 mm 28 x 24 x 24 in
External dimensions		W528 x D795 x H681 mm 20.8 x 31.3 x 26.8 in	W686 x D895 x H833 mm 27.0 x 35.2 x 32.8 in	W965 x D1189 x H1624 mm 38.1 x 46.8 x 63.9 in
Internal capacity		47.2L	127.4L	264L
Shelf dimensions (WxD)		287 x 483 mm (11.3" x 19")		
Shelf capacity by weight per shelf *1		15.8 kg		34 kg
Maximum total load *2		47.6 kg.		102 kg
Shelf rest step number		3 steps	6 steps	3 steps
Power source 50/60 Hz		AC110 - 120V 10A with plug AC220 - 240 5.5A with plug, Type F	AC110 - 120V 13A with plug AC220 - 240V 7A with plug, Type F	AC230V 20A no plug, round terminal
Weight		~83kg	~144kg	~223kg
Included accessories		3 shelves (2 tall, 1 short bottom), 1 power cord, 4 leveling feet	3 shelves, 12 shelf clips, 1 power cord, 4 leveling feet	3 shelves, 12 shelf clips, 4 leveling feet, oil drain tray

*1 With weight evenly distributed across the shelf

*2 Exceeding this limit risks damaging chamber liner

SDP300/310 (47L)



Front view with open door



Back view with open door

SDP400/410 (127L)



Front view



Back view

⚠ Attention

- Never use in flammable or explosive gas atmosphere
- Never use explosive or flammable material
- Caution: High temperature components

SDP610 (264L)



Front view

Features a fully programmable Watlow controller and a cool touch surface. A digital vacuum gauge shows chamber vacuum level in measurements of Torr and mTorr. The display range is 760 Torr down to 0 mTorr (Maximum permitted end vacuum is 10 mTorr. Leak rate is 30 mTorr in 30 min).

A secondary independent high limit controller provides overtemperature safety protection.



Front view with open door

*Equipped with a **VITON** gasket which provides an excellent combination of high temperature performance and chemical resistance.*

Optional Items

Description	Applicable Models	Product code
Shelf		
Tall shelf	SDP300/310	SHE-5680588
Short shelf	SDP300/310	SHE-9751342
Shelf	SDP400/410	SHE-5680563
Shelf	SDP610	SHE-5680562
Shelf clip	SDP400/410/610	SHE-1250510
Adjustable leveling feet	All SDP models	SHE-2700506
Door gasket		
Silicone	SDP300/310	SHE-3450707
	SDP400/410	SHE-2450719
Buna-N	SDP300/310	SHE-3450708
	SDP400/410	SHE-3450724
Fluorosilicone	SDP300/310	SHE-3450611
	SDP400/410	SHE-3450612
Viton	SDP300/310	SHE-3450670
	SDP400/410	SHE-3450671
	SDP610	SHE-3450755
Window gasket		
Viton	SDP610	SHE-3450754
Vacuum pump		
GLD137 Oil Vacuum Pump with Rubber Hose Kit 115V	SDP300	GLD137CC115DPRKIT
GLD137 Oil Vacuum Pump with Rubber Hose Kit 220V	SDP310	GLD137CC220DPRKIT
GLD202 Oil Vacuum Pump with Rubber Hose Kit 115V	SDP400	GLD202BB115DPRKIT
GLD202 Oil Vacuum Pump with SUS Hose Kit 115V		GLD202BB115DPSKIT
GLD202 Oil Vacuum Pump with Rubber Hose Kit 220V	SDP410	GLD202BB220DPRKIT
GLD202 Oil Vacuum Pump with SUS Hose Kit 220V	SDP610	GLD202BB220DPSKIT
SDP NEODRY15G2 100-240V Dry Vacuum Pump Kit	All models	NEOSDPKITC