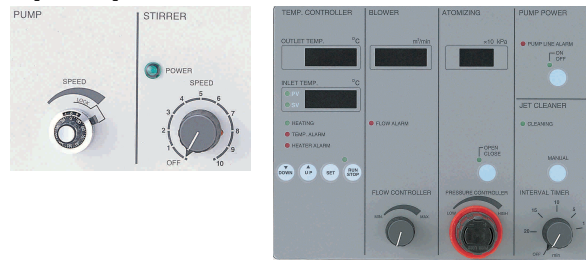


# Spray Dryer SD-1000

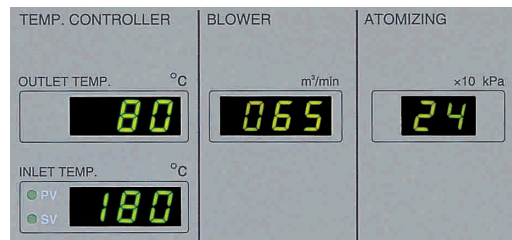


SD-1000

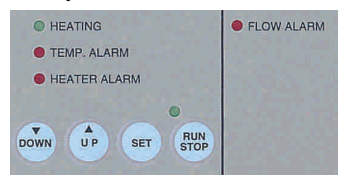
### \*Operation panel



### \*Display



### \*Safety features



Self diagnosis functions (Overheat, Excessive air flow, Heater brake, Leakage and excess current braker).

### Introduction

- 2 way nozzle type spray dryer
- Drying capacity: 1500mL/h
- Temperature range: 40~200°C

### Features

- Drying time is short as to avoid affect from high temperature on samples.
- Sample solvents can be collected in the form of dried uniform powder. Pre-process of filtering or concentrating or post-process of grinding are not required.
- Drying by gram order is possible.
- Equipped recorder output enables setting, checking and recording the experiment data.
- Automatic cleaning of the nozzle part of air spray line by timer is possible. Powders sticked inside nozzle can be removed by pushing needle a few times.
- Magnetic stirrer is equipped as standard.
- Dried air inlet/outlet filters are equipped as standard.

### Specifications

Product name	Spray Dryer
Model	SD-1000
Product No.	174970
Voltage	AC 220V
Type	Two way nozzle spray type
Drying capacity	Max. approx. 1500mL
Temp. range/accuracy	40~200°C (at inlet)±1°C
Heated air volume	0.2~0.75m³/min.
Spray air pressure	0.2~245kPa (0.2~2.5kg/cm²)
Pump flow range	150~1700mL
Sample stirrer rpm	100~1000rpm 50mL~2L water
Safety features	Evaporation tube cover, Self diagnosis function (Overheat, Excessive air flow, Heater brake, leakage and excess current braker)
Spray air cleaning	Automatic operation by interval tmer
Additional function	Spray air line valve ON-OFF switch
Output signal	0~10mV (Inlet/outlet temperature, Dried air flow volume)
Heater	3kW
Circulating pump	Tube pump
Spray nozzle	Two way nozzle (nozzle ID 0.71mm)
Spray air pump	Spray air compressor (option)
Chamber dimension	300W x 300D x 350H mm 30L
Evaporation tube	Hard glass
Cyclon	Hard glass
Powder recovery vessel	Hard glass (600mL0)
Stirrer	DC brushless servo output 6 W, Magnetic stirrer
Suction blower	Rectifyer blower, Max. 0.75m³/min. Variable volume
Tube diameter	ID 3.15mm x OD 5.2mm
Spray air pressure	Pressure 294kPa (3kg/cm²), Lowest flow volume 25L/min.
Interval time	OFF or 1~20min. (Automatic interval opertion)
Ambient temp.	5~35°C
Overall dimension (mm)	700W x 620D x 1500H
Net weight	110kg
Input power	21A, 4.2kVA, AC220V 50/60Hz

# Natural Convection Oven NDO-400 • 400W • 500 • 500W • 700 • 700W



NDO-700

Air flow	No blowing Natural Convection
Temp. range	RT +10°C~250°C
Chamber capacity	80~150L

### Operation panel



### Features

- Ideal for the analytical laboratory, and for general chemical and biological work including baking, drying and preheating.
- The visual glass window type (400W, 500W, 700W) allows easy viewing of the samples.
- Model 400 and 700 feature slim size of 526W x 550Dmm.
- Timer function (Auto-start/stop) is equipped as standard.
- The opening side of the door for model 400 and 700 can be changed depending on the installation place.

### Specifications

Product name	Natural Convection Oven
Model	NDO-400, 500, 700
Air circulation	Natural convection
Temperature range	RT+10~250°C
Temperature accuracy	*1°C
Temperature control	P.I.D temperature controller
Timer function	Auto-start, Auto-stop
Safty functions	Door open, Min./max. temperature limiter, Power failure Temperature control fault, Independent overheat protector

Model	Cat. No	Chamber capacity
NDO-400 (230V)	194868	450W x 450D x 400H, 81L
NDO-400W (230V)	194878	
NDO-500 (100V only)	215350	600W x 500D x 500H, 150L
NDO-500W (100V only)	215360	
NDO-700 (230V)	194888	450W x 450D x 700H, 142L
NDO-700W (230V)	194898	

### \*Stackable table



For 400, 700 model, the open side of the door can be changed.

### \*Table with casters



HSS-CA

Applicable unit	Model	Cat.No
NDO-400 (W)	HSS-40CA	197220
NDO-500 (W)	HSS-50CA	216020
NDO-700 (W)	HSS-70CA	209330



Applicable unit	Model	Cat.No
NDO-400 (W)	HSD-10	195340
NDO-500 (W)	HSD-20	216030

Gas Exhaust unit	Power source	Cat.No
EU-300	AC200V 0.6A 60VA	195350
EU-400	AC200V 0.3A 60VA	195360

