

## Automatic Rotary Vacuum Evaporator NE-2001



### Features

- 5 liter large scale sample flask and built-in vacuum controller.
- Microprocessor control of the rotation speed, bath temperature, vapor temperature and vacuum pressure.
- Two operation modes available: Auto-mode which incorporates automatic concentration start and stop. Manual mode which allows desired condition setting.
- Equipped with smooth up/down auto-jack. When Auto-stop functions or alarm is detected, main unit stops operation automatically and auto-jack lifts up the main unit.



The heating bath can be separated from the control base for cleaning



Signal from the evaporator directs diaphragm pump ON-OFF (option).

### Specifications

Product name	Automatic Rotary Vacuum Evaporator	
Model	NE-2001	
Cat. No.	189078	189070
Rotation speed	5-160 rpm	
Rate of Evaporation	Max. 43mL/min (water)	
Bath heating capacity	2.2kW	
Bath temp. range	RT+5°C-90°C	
Bath temp. accuracy	±1°C (flask rotating, water)	
Vapor temp. setting range	-20°C-150°C	
Pressure setting range	0-933hPa (0-700Torr/mmHg, 0-933mbar)	
Timer setting range	1min-9hr 59min	
Control	Temp.: P.I.D control, Pressure: Microprocessor ON-OFF, Rotation: Speed feed back control	
Control mode	Auto mode 2, Manual mode 7	
Lifting mechanism	Motorized lift, 160mm	
Safety features	Selfdiagnosis (watchdog, overheat, heater fault, motor fault, bath temp. sensor, vapor temp. sensor, pressure sensor, power failure) Independent overheat protector, Leakage/over-current braker	
Alarm function (alarm display)	Over-shoot, Bath temp. Pressure, Vapor temp., Motor, Setting error	
Compensation function	Bath(±10°C), vapor temp.(±10°C), Pressure(±100h Pa)	
External output	Control signal output for diaphragm pump (ON-OFF output) *optional diaphragm pump control unit is necessary.	
Motor	For rotation: Stepping motor. For motorized jack: Reversible motor	
Condenser	Vertical triple spiral glass pipe, Cooling area 0.25m <sup>2</sup>	
Flasks	Sample flask: Round flask 5L, Receiving flask 3L	
Vacuum seal	Teflon, Viton seal	
Bath inner dimensions	ø280 x 144Hmm, Volume: 8.5L, Material: SUS304L	
Connection size (mm)	Nozzle for pressure control: OD10, Leak nozzle: OD10	
Ambient temperature	5-35°C	
Dimensions (mm) & Weight	625(805) W x 465(530) D x 1020(1180) H/ 29kg	
Power source	AC220V, 11.8A, 2.6kVA 50/60Hz	AC200V, 13A, 2.6kVA 50/60Hz

## Rotary Vacuum Evaporator; Examples of System Configuration

### Enhances the recovery efficiency by Low Temperature Circulator



Product	Model	Cat. No.
Rotary evaporator	N-1001S-W	216948
Low temperature circulator	CCA-1111	219950
Aspirator	A-1000S	210530

### Diaphragm vacuum pump is used in place of aspirator



Product	Model	Cat. No.
Rotary evaporator	N-1001S-W	216948
Low temperature circulator	CCA-1111	219950
Diaphragm Vacuum pump	DTC-21	188870

### Enhances the recovery efficiency and traps the exhaust gas



Product	Model	Cat. No.
Rotary evaporator	N-1001S-W	216948
Low temperature circulator	CCA-1111	219950
Diaphragm vacuum pump	DVAC 1.2L	170660
Solvent recovery unit	DPE-1220A	216660

### Suitable for low boiling point solvents using -45°C cold trap



Product	Model	Cat. No.
Rotary evaporator	N-1001T	194780
Water bath	SB-350	180180
Vacuum control unit	NVC-2100	216630
Cooler	ECS-50SS	113440
Diaphragm vacuum pump	DTC-21	188870