

Automatic Rotary Vacuum Evaporator NE-1001 • 1101

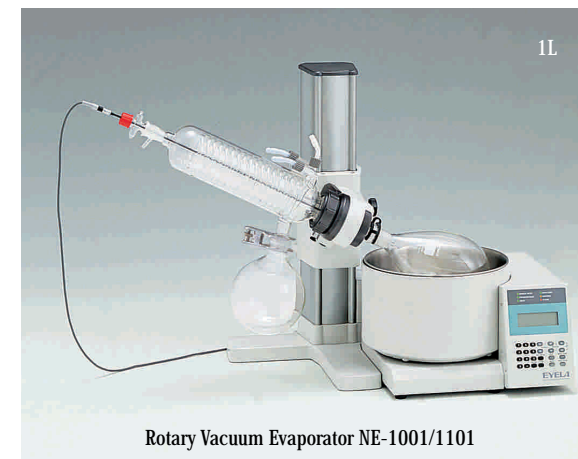
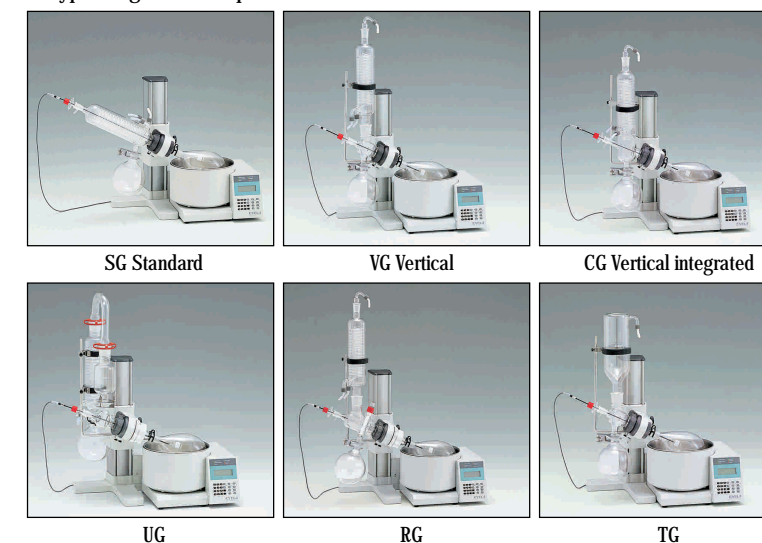
Features

- Auto-vacuum function controls the unit based on the automatically detected boiling point and enhances solvent recovery rate significantly.
- Built-in vacuum and vapor temperature controllers available as standard.
- The sample flask can be moved up & down by motor-lift.
- Rotation speed, vapor temperature and vacuum pressure are controlled by microprocessor and digitally displayed.
- Two operation modes are available; Auto mode which starts and stops concentration operation automatically, and Manual mode which operates under the preset conditions.
- 6 kinds of glassware are available that suits best for experiment requirement.
- NE-1101 is equipped with a bath for heat range from 20°C to 180°C by using water and oil.
- The heating bath can be separated from the control base for bath cleaning.

Specifications

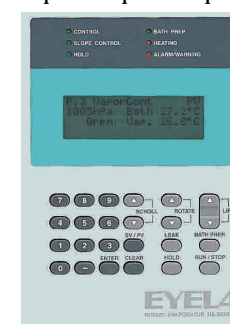
Product name	Automatic Rotary Vacuum Evaporator		
	NE-1001		NE-1101
Model			
Cat. No.	188919	188918	188990
Type	without glassware		
Rotation speed	5-240 rpm	5-160 rpm	
Rate of evaporation	Max. 23mL/min (water)		
Bath heating capacity	1kW		
Bath temp. rang	RT+5°C-90°C	RT+5°C-180°C	
Accuracy	±1°C (water)	±5°C (oil)	
Vapor temp. setting range	-20°C-150°C		
Pressure setting range	0-933hPa (0-700Torr/mmHg, 0-933mbar)		
Timer setting range	Concentration timer 1min-9hr 59min. Ramp time 1min-59min		
Control	Temp.: PID control, Pressure: Microprocessor ON/OFF		
Auto mode	Rotation : Speed feedback control Auto 1: single solvent. Auto 2: mixed solvent		
Manual mode	Normal operation (flask roasting) Fixed & ramp control(continuous, concentration time stop, vapor temp. stop)		
Lifting mechanism	Motorized lift, 160mm		
Glassware	Select from SG, VG, CG, TG, RG, UG type		
Bath inner dimensions	ø250 x 110Hmm, Volume: Approx 5L, SUS304L		
Connection size (mm)	Nozzle for pressure control: OD10, Leak nozzle: OD10		
Ambient temperature	5-35°C		
Dimensions (mm) & weight	565W*465D*535H/20kg		
Input power	1.4kVA		
Supply voltage	AC 115V	AC 230V	AC 100V

*6 types of glassware options



Rotary Vacuum Evaporator NE-1001/1101

*Operation panel/Display



*Glassware for NE-1001, 1101

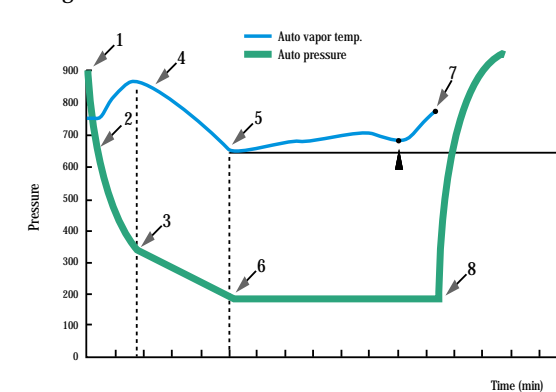
Type	Cat. No.	182630
SG Standard inclined type	Cat. No.	182640
VG Vertical type for high boiling point substance	Cat. No.	182650
CG Vertical integrated type for high boiling point substance	Cat. No.	182660
TG Trap type for low boiling point substance	Cat. No.	182670
RG Reflux vertical type	Cat. No.	182680
UG Vertical downward cooling type	Cat. No.	

Bath, Cold Trap

*Operation procedure example of Auto mode

Set the rotation speed, bath temperature and vapor temperature and start operation. *Simultaneous measurement of the vapor temperature and pressure start. *After starting the decrease of pressure, the initial boiling point is detected automatically. *Appropriate pressure slope control automatically starts. *Measure vapor temperature during slope control. *Detect the point where measured vapor temperature and set temperature cross. *Automatic setting of fixed pressure value control. *Detect automatic stop point (temperature). *When automatic stop point is detected, pressure control stops. Measurement will continue.

*Six glass assemblies available

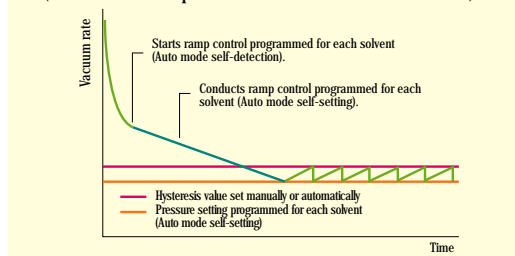


Manual extension slide for bulb trap

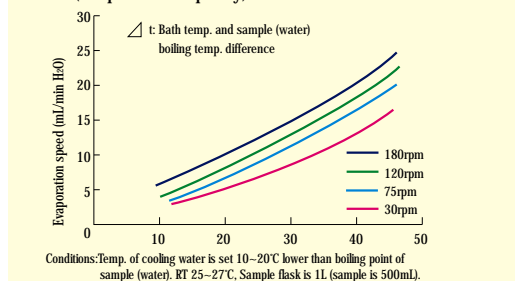


A vacuum controller (Option) can be connected to the rotary evaporator.

*Vacuum ramp program control function (Combined with optional Vacuum Controller NVC-2100)



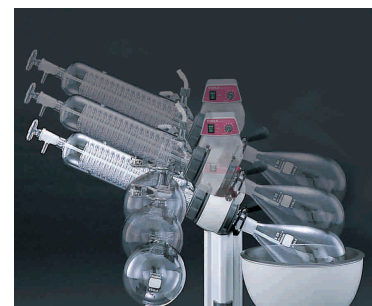
*Data (evaporation capacity)



Conditions:Temp. of cooling water is set 10-20°C lower than boiling point of sample (water). RT 25-27°C. Sample flask is 1L (sample is 500mL).



SB-1000 Operation panel



Smooth up and down by slide jack



OSB-2000 Operation panel



Adapter to prevent reverse flow to the sample flask.

No heater element in the bath.

*Optional accessories/related products



Low Temperature Circulator (Chiller) → P.61

Aspirator → P.20

Vacuum Controller → P.19

Solvent Recovery Unit → P.21

Bath → P.5

Glassware → P.13

Teflon Seal → P.14

Vacuum Pump → P.22, 23

Jack → P.14