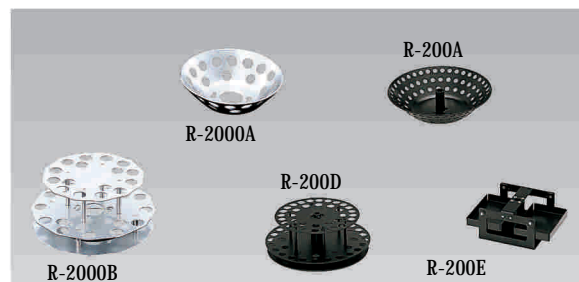


Centrifugal Evaporator

CVE series



*Optional accessories (Rotors)



	Rotor type	Acceptable container	Number of tubes
For CVE-2000	R-2000A	O.D. 10.8mm (1.5mL) Microtube	24 pieces
	R-2000B	O.D. 10 to 13mm test tube (Length 80 to 100mm)	16 pieces
	R-2000C	O.D. 10 to 13mm test tube (Length 65 to 75mm)	16 pieces
	R-2000D	O.D. 10 to 13mm test tube (Length 32 to 50mm)	16 pieces
For CVE-200D	R-200A	O.D. 10.8mm (1.5mL) Microtube	96 pieces
	R-200B	O.D. 10 to 12mm test tube (Length 90 to 120mm)	48 pieces
	R-200C	O.D. 16.5 to 18mm test tube (Length 90 to 120mm)	36 pieces
	R-200D	O.D. 17.5 to 18mm test tube (Length 130 to 165mm)	36 pieces
	R-200E	Deep well plates Swing rotor (96 holes)	2 pieces
For CVE-3100	R-3100A	O.D. 10.8mm (1.5mL) Microtube	96 pieces
	R-3100B	O.D. 10 to 12mm test tube (Length 90 to 120mm)	48 pieces
	R-3100C	O.D. 16.5 to 18mm test tube (Length 90 to 120mm)	48 pieces
		Liquid phase method centrifugal tube	48 pieces
	R-3100D	O.D. 17.5 to 18mm test tube (Length 130 to 165mm)	48 pieces
	R-3100E	50mL vial	10 pieces
R-3100F	Deep well plates Swing rotor (96 holes)	2 pieces	

*A wide variety of system configuration is available by combining various related products.

System for processing small amount of sample

System Code SYS09086



System for processing Combinatorial chemical sample

System Code SYS09201



System for processing multiple water content samples

System Code SYS09200



Features

- Suitable for DNA, RNA synthesis, elution of concentrated solvent.
- Compact size of 180W x 199D x 176Hmm. Rotor which can accommodate 12 pcs 1.5mL micro tubes is equipped as standard.
- The unit is used under room temperature and is suitable for samples sensible to heat.
- CVE-2000 is equipped with vacuum pump which gives high vacuum of 4000Pa.

Compact-type for 1.5mL microtube suitable for concentration and drying after ethanol precipitation.

CVE-1000 Cat. No.187430

Diaphragm Vacuum Pump built-in type suitable for solvent removal.

CVE-2000 Cat. No.188810

Suitable for low-temperature concentration of biochemical substance.

CVE-200D Cat. No.117748

Suitable for TFA, DMF, and DMSO and for concentrating synthetic sample of combinatorial chemistry and removing the solvents.

CVE-3100 Cat. No.188820

*Characteristics of CVE series

* Strong, * Usable, * Not usable

Model	Corrosion-resistance of chamber				Rotor material (surface treatment)	Vacuum pump	Lid material
	Water	Alcohol	Acid	Organic solvent			
CVE-1000	*	*	*	*	Aluminum(*)	Option	Acryl
CVE-2000	*	*	*	*	Aluminum (Alumite)	Built-in	PVC
CVE-200D	*	*	*	*	Aluminum(anticorrosion treatment)	Option	Acryl
CVE-3100	*	*	*	*	SUS (Teflon)	Option	Glass+PVC

*Capacity and Temperature range of CVE series

Model	No. of tubes to be handled		Temperature control range (°C)			
	Test tube (Max.dia)	Microtube	0	RT+5°C	50	100
CVE-1000	**	12				
CVE-2000	16	24				
CVE-200D	36	96	15°C			
CVE-3100	48	96				

* → set 15°C*RT requires Recirculating chiller.

*Applicable pumps

Model	DVAC			DTC		MDIC	GLD	GCD
	0.6L	1.2L	2.2L	-21	-41	*	-051	-051X
CVE-1000	*							
CVE-2000								
CVE-200D								
CVE-3100								

Vacuum Controller for Evaporators NVC-2100 • 2100L



Mounting plate for evaporator

This is necessary to attach to Evaporator.

N-NVC3 (for N-1001 model) Cat. No.189310

*Option

Teflon solenoid valve, Vapor temp. sensor

Model	Cat.No.	Specifications
Solenoid valve	CV-1	196910
	CV-2	196920
Vapor Temperature sensor	185170	for N-1001S series
	185180	for N-1001V, 1001T series
Capillary for vapor sensor	187830	for N-1001S series

*Data

Recovery rate (By program mode)

	Evaporation time	Recovery amount	Recovery rate
Hexane	9min 27sec	496.0g	99.20%
Trichloroethane	9min 5sec	495.2g	99.04%
Ethyl acetate	11min 50sec	493.0g	98.60%
Banzene	10min 43sec	497.3g	99.46%
Toluene	13min 42sec	498.9g	99.78%

Condition: Water bath temp. 40°C, Cooling water temp.: 5°C.

Recovery rate is calculated by volume in the receiving flask when 500g of sample is placed in 1L sample flask.

Vacuum controller with excellent control functions. Connecting this unit to Evaporator improves significantly the recovery rate of general solvents such as dichloromethane, benzene, or trichloroethylene etc.

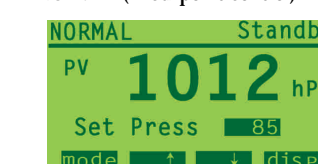
Features

- Most appropriate vacuum value of the 10 typical regulated solvents (such as siethyl ether, hexane, dichloromethane, acetone, benzene, toluene...) are stored in memory and the unit is automatically adjusted for most proper vacuum value of the selected solvent.
- 2 kind of digital displays: numerical display of pressure and graphic display to show the ongoing control status.
- Set pressure value can be changed anytime. Regardless of the operation status (run/stop), pressure value can be set at desired value while checking the concentration situation.
- Adjusting the vapor temperature to the room temperature at start of operation enables to prevent the bumping of sample solvent and to select the proper vacuum rate automatically.
- NVC-2100L is suitable for large-sized Evaporator/Vacuum unit.

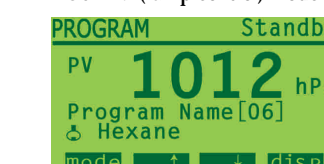
Specifications

Product name	Vacuum Controller for Evaporators				
	NVC-2100		NVC-2100L		
Model	216639	216638	216637	216649	216648
Cat. No.	216639	216638	216637	216649	216647
Pressure measurement range	0 to 1066hPa/mbar, 1 to 800mmHg				
Pressure setting range	Normal control	0 to 1013hPa/mbar, 1 to 760mmHg			
	Auto control	Auto detect, auto set			
	Program control	Programmed for each typical solvent			
Hysteresis setting range	Step program control	0 to atmospheric pressure hPa/mbar, 0 to atmospheric pressure mmHg			
	Constant value control	Auto (2%) or 1 to 20mmHg/mbar (1 to 15mmHg)			
Time setting range	Pressure ramp control	Auto(2%) or 1 to 20%			
Pressure control mode	Ramp control time: 1 to 999min. Step: 0 to 999min				
Display	Constant-point, Auto, Ramp, Step program				
Auto leak function	Display of measured set pressure value, temp. (option) at the same time (manual release at the end of control is selectable)				
Holding function	Automatic vacuum release at the end of control (manual release at the end of control is selectable)				
Tubing material	Except for auto mode, it is possible to hold at a selected vacuum rate in ramp control.				
Nozzle diameter	10mm		22mm		
Teflon solenoid valve	Option		Standard (included)		
Diaphragm pump output	AC outlet *				
Power source	AC115V	AC220V	AC230V	AC115V	AC220V
	50/60Hz 100VA			50/60Hz 300VA	

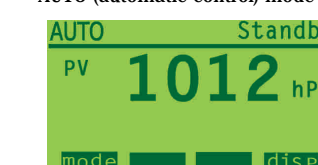
*NORMAL (fixed-point control) mode



*PROGRAM (ramp control) mode



*AUTO (automatic control) mode



*STEP PROGRAM mode

