

EYELA

20L ROTARY EVAPORATOR

Space-saving model for use in the laboratory

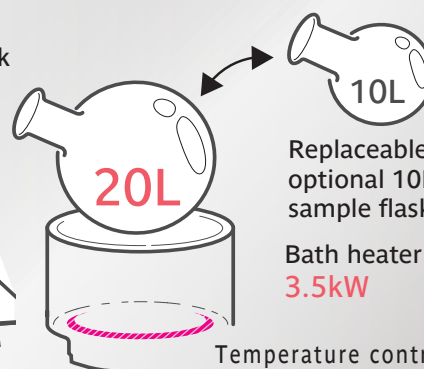
Model N-4100 / 4100H / 4100W

The model series include 20L sample flask and single or dual 10L receiving flasks as standard.



N-4100

Sample flask
Diameter
 $\phi 100$ mm



Replaceable with
optional 10L
sample flask

Bath heater capacity
3.5kW

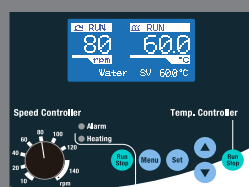
Built-in
vacuum controller

Temperature control range
RT+10 to 180°C
(Bath for water or oil)

Footprint: **1060W** × **570D** (mm)



Vacuum controller



Rotation and temperature
controller

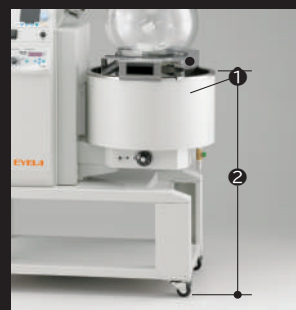
Vacuum control function

The vacuum controller is programmed for 55 different of type solvents, including those specified in environmental regulations. By selecting the type of solvent in the vacuum controller, the vacuum will be appropriately controlled, allowing efficient solvent recovery.



Safety cover

A safety cover is provided as standard equipment to prevent hair or clothes from getting caught during rotation.



Flask base

①The combination of flask base and one-touch clamp makes it easy to attach and detach sample flasks.
②The height of the bath can be set to 800 mm for easy attachment/detachment operation (bath: 800-1000 mm). Easy to change to 10L sample flask (optional).



Dual receiving flasks

Model N-4100W is equipped with two receiving flasks, allowing the distillate to be discharged from the receiving flask without stopping the equipment during concentration. Since the vacuum conditions hardly change, continuous concentration can be performed under stable conditions.

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Model	N-4100 / N-4100H ※1	N-4100W
Cat. No.	281208 / 281650	281218
Sample flask	Round shaped flask 20L (Diameter 100mm)	
Rotation speed range	10 to 140rpm (Continuous variable speed)	
Evaporation capacity	Max.4.0L/h (Water)	
Ultimate vacuum	2.6hPa(2Torr) or less	4.6hPa(3.5Torr) or less
Temperature control range	Room temperature+10 to 180°C (Water or oil)	
Temperature control accuracy	±1°C/±3°C(with water/oil, when flask rotating)	
Vacuum control	Constant (1 to 760 mm Hg/1 to 1013 hPa), Programmable (pre-set internally for each representative solvent), Auto (temperature sensor optional), Step control	
Receiving flask	Round shaped flask 10L(with drain valve) (Model W: 2pcs)	
Stand base	with / without	with
Bath dimension, capacity and material	ID430×250Hmm , approx. 40L, Stainless steel	
Connection diameter	Suction/cooling water nozzle: OD16 mm, Vacuum pump connection nozzle (vacuum control solenoid valve): Nozzle OD 13 mm	
Outer dimensions(mm)	1060W×570D×1910H / 1570H	1170W×700D×1910H
Weight	Approx.141kg / Approx.118kg	Approx. 152kg
Power input and supply voltage	17 to 18A, 3.9 to 4.3kVA, 230 to 240V single-phase 50/60Hz	
Power utility	230VAC single-phase 23A capacity	

※Specifications are room temperature 20°C, rated power supply voltage, 50Hz, and no load.
 ※Evaporation capacity varies depending on conditions such as degree of vacuum, bath temperature and cooling water temperature.
 ※Temperature control range depends on the ambient temperature and evaporation rate.
 ※Ultimate vacuum is based on the use of an oil-rotary vacuum pump.
 ※Power plug is not included. ※1: N-4100H (Cat. No. 281650) is 200VAC.

20L Standard system System code: SYS09513



Product name	Model	Cat. No.
Rotary Evaporator	N-4100	281208
Low temp. circulator	CA-2610	270140
Diaphragm vacuum pump	N950	251170
Cooling hose ID15mm, 5mx2 pcs		174460
Vacuum hose ID9xOD21mm, 5m		119190

※The diaphragm vacuum pump N950 (sold separately) automatically operates according to the operating status of Model N-4100 when the vacuum pump and N-4100 are connected by the dedicated power cord.

Factory options

Power failure supported specification (with automatic bath descending function during power failure)

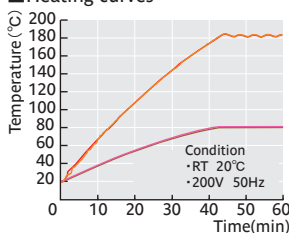
Model N-4100J (N-4100 with power failure supported specification)
 Cat. No. 281660

Model N-4100WJ (N-4100W with power failure supported specification)
 Cat. No. 281680

Model N-4100HJ (N-4100H with power failure supported specification)
 Cat. No. 281670

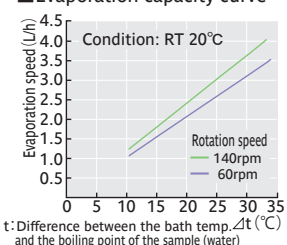
Data

■ Heating curves



- Silicone oil (KF-54)
 Set temperature 180°C, rotation speed 70rpm
 Measuring point
 — Bottom of bath
 — Bottom of sample flask (100mm or less)
- Water
 Set Temperature 80°C, rotation. 100rpm
 Measuring point
 — Bottom of bath
 — Bottom of sample flask (100mm or less)

■ Evaporation capacity curve

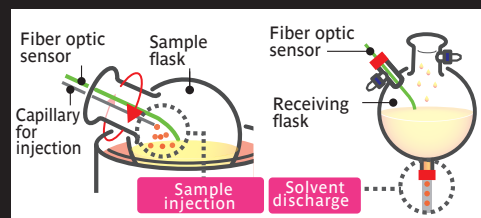


Sample injection/solvent discharge unit

Model IDU-1000

Cat. No. 259820

This option is used in combination with a medium-sized rotary evaporator. The fiber-optic sensors installed in the sample flask and receiving flask detect the increase or decrease in liquid volume of the sample and solvent, and allow the sample to be injected into the sample flask and the solvent to be drained from the receiving flask (PAT.) continuously without stopping the equipment (without releasing the vacuum). Significantly reduces the time required for concentration.



See the video on N-4100

- Ultimate vacuum: Ultimate vacuum of rotary evaporator + 3hPa
- Solvent discharge pump: Maximum discharge rate 0.8/0.96L/min(50/60Hz)
- Operating fluid temperature: 10 to 40°C
- ※Vessels for sample injection and solvent discharge are not included.
- ※Acid samples cannot be used.

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※The appearance and specifications of the products are subject to change without notice.