

Rotary Evaporator

Highly Functional & Programmable

RE601 / 801

Evaporating/
receiving flask

1L(Standard)

Rotation speed

20~250rpm

Water / Oil bath temp. range

Water Bath
Room temperature +5~90°C

Oil Bath
Room temperature +10~180°C

Highly functional type

Standard equipped with motorized lift, vacuum regulator, vapor temperature display functions



RE-601-AW (Glassware A)

RE-601-BW (Glassware B)

RE-601-CW (Glassware C)

Highly functional type with automatic distillation

Standard equipped with motorized lift, vacuum regulator, vapor temperature display and automatic distillation function



RE-801-AW (Glassware A)

RE-801-BW (Glassware B)

RE-801-CW (Glassware C)

Common features of RE601 and RE801

- One touch electric lift for easy up and down movement
- Digital setting and display for motor speed (rpm), vacuum and vapor temperature
- Stable rotation at low and high speeds
- Unique durable vacuum seal suitable up to 2L flasks
- One touch operation for displaying and saving operating conditions
- Equipped with lift-up switch in the event of power outage
- Compact, fits into any fume hood
- Universal power supply: works with 100-240VAC

Unique features of RE801

- Automatic distillation
- Continuous bath control
- Data on 53 solvents installed as default

Features

Adjustable Rotary Joint



The rotary joint's locking position feature is adjustable up to 80 mm: useful when using evaporating flasks with varying capacities or when there is a need to shift the vacuum seal's contact position. (Patent No. 3220033)

Quick Release of Evaporating Flask



The evaporating flask can be released easily and quickly by turning the flask release nut.

Glass Condenser (prevents liquid stagnation)



The vertical condenser prevents liquid from stagnating. New condenser tubes (type A&B) are designed to increase cooling capacity with a 20% larger surface area. (Patent No. 4597021)

Control Panel



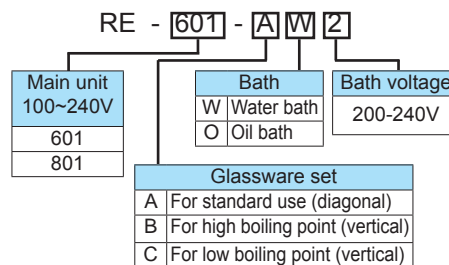
Rotation speed knob with digital display and a programmable vacuum regulator.

Specifications

Model	RE-601	RE801
Motor	DC brushless motor (for rotation)	
Controller	Vacuum regulator VR600	Vacuum regulator VR800
Rotation speed	20~250 (rpm)	
Lift stroke	130mm	
Setting range of vacuum	0~981hPa	
Measurable range of vacuum	0~1033hPa	
Resolution of vacuum	1hPa	
Setting range of hysteresis	1~50hPa	
Resolution of vapor temperature indicator	Selectable (either 1°C or 0.1°C)	
Readout of cooling water temperature	Depending on indicator (option)	
Resolution of cooling water temperature indicator	1°C or 0.1°C	
Operation modes	Free, fixed temperature, fixed temperature timer, descending, and descending timer	Free, fixed temperature, fixed temperature timer, descending, and descending timer, auto I (auto operation with continuous drying), and auto II (auto operation for distillation of single solvent)
Setting range of timer	1-999 minutes in increments/decrements of 1 minute for preset operations, 1-99 minutes for descending timer operations	
Memory	10 programs for each operation	
Data operation	N/A	53 kinds of solvent data
Speed (rpm) setting	Rotation: Control knob Vacuum adjustment: Key pad	
Safety measures (drive unit)	Circuit breaker, rotor for overload protection, manual adjustment of lift's lower limit, lift-up switch during power outage	
Safety measures (vacuum regulator)	Self-diagnostic functions, main unit / bath synchronized stop at malfunction, error display	
Synchronized control feature	Selection of automatic bath stop or automatic insulation	
Lifting feature	One-touch motorized lift system	
External dimension*	With Glassware A (mm)	828(W)×400(D)×727(H) (857(H)when raised)
	With Glassware B/C (mm)	643(W)×400(D)×727(H) (857(H)when raised)
Weight	~15.1kg (excluding the glassware and the water/oil bath)	
Power supply	Main unit (50/60Hz)	AC100~240V 1.5A

*External dimensions (excluding protrusions).

Set Guide



Set Selection Chart

Model	Glass-ware			Bath (100-120V)		Bath (200-240V)	
	A	B	C	Water bath BM500	Oil bath BO400	Water bath BM510	Oil bath BO410
RE-601-AW	●			●			
RE-601-AW2	●					●	
RE-601-AO	●				●		
RE-601-AO2	●						●
RE-601-BW	●			●			
RE-601-BW2	●					●	
RE-601-BO	●				●		
RE-601-BO2	●						●
RE-601-CW		●		●			
RE-601-CW2		●				●	
RE-601-CO		●			●		
RE-601-CO2		●					●
RE-801-AW	●			●			
RE-801-AW2	●					●	
RE-801-AO	●				●		
RE-801-AO2	●						●
RE-801-BW	●			●			
RE-801-BW2	●					●	
RE-801-BO	●				●		
RE-801-BO2	●						●
RE-801-CW		●		●			
RE-801-CW2		●				●	
RE-801-CO		●			●		
RE-801-CO2		●					●

Operational Accessories

Glassware Set

Product code	Set
255291	Set A (use with cooling water) The Standard glass set where condenser is tilted, suitable for standard distillation.
255292	Set B (use with cooling water) The condenser is set vertical, suitable for distillation of solvent with higher boiling points. When space is limited, the use of a vertical condenser set up is recommended
255293	Set C (use with dry ice) The cold finger glass condenser is set vertically, suitable for distillation of volatile or low boiling point solvents. When space is limited, the use of a vertical condenser set up is recommended

Bath Specifications

Product name	Water bath		Oil bath	
	Model	BM500	BM510	BO400
Temp. control range	RT +5°C~90°C		RT +10°C~180°C	
Temp. setting range	0~100°C		0~180°C	
Temp. adjustment accuracy	±1.5°C (at agitation)		±2°C (at agitation)	
Temp. control system	PID control with microprocessor			
Temp. setting / display system	Digital setting by ▲/▼ keys			
Bath capacity	~4L			
External dimensions	W340 x D349 x H231 mm			
Weight	~5.5kg			
Power supply	AC100~120V	AC200~240V	AC100~120V	AC200~240V
	12.5~10.5A	6.5~5.5A	12.5~10.5A	6.5~5.5A



BM500
The electric kettle style tank can be removed freely



Optional Accessories

Glassware



● Evaporating flask

Product code	Size	Capacity
LT00016206	29/42	2L
LT00016205	29/42	500ml
LT00016204	29/42	300ml
LT00016203	29/42	200ml
LT00016202	29/42	100ml



● Receiving flask

Product code	Size	Capacity
LT00016210	35/20	2L
LT00016180	35/20	500ml
LT00016209	35/20	300ml
LT00016208	35/20	200ml
LT00016207	35/20	100ml



● Joint

Product code	Description
RE200GT010	TS 29/42- 24/40
RE200GT012	TS 29/42- 29/42



● Trap ball

Product code	Description
RE200GT002	TS 29/42- 29/42
RE200GT003	TS 29/42- 24/40



● Steam Duct / Rotary Joint

Product code	Description
LT00016211ASSY (29/42)	with o-ring and nut

Connection method



Optional Standard

● Vacuum seal

Product code	Description
RE50040090 (standard)	Silicone rubber vacuum seal <i>updated color: white</i>
ORE7042000	Teflon vacuum seal ORE70 (red) optional



● Hose connection parts and trap

Product code	Description
255284	Hose connection parts ORE30
255285	Trap with nozzle ORE40

Vacuum Pump



Model	DTC-22A	DTC-22B
Discharge rate	50Hz: 20L/min, 60Hz: 24L/min	
Ultimate pressure	1.0x10 ³ Pa	
Motor	AC115V, Single phase	AC220V, Single phase
	50W, 4P, with condenser-run thermal protection relay (automatic reset)	
Rated current	1.20/1.32A (50/60Hz)	0.60/0.72A (50/60Hz)
Speed	1260 / 1580rpm	1275 / 1570rpm
Inlet and outlet piping	O.D.ø10 x I.D.ø6 (G1/4)	
Weight	7.1kg	
Air temperature	0~40°C	
Overall dimensions	W142 x L272 x H202 mm	
Product code	DTC22A115RERKIT	DTC22B220RERKIT
Components	DTC-22A Dry Vacuum Pump, 5' of 8mm ID Rubber Hose, Hose Clamp	DTC-22A Dry Vacuum Pump, 5' of 8mm ID Rubber Hose, Hose Clamp

Organic Solvent Recovery Unit



Model	RT200
Condenser	Hard glass
Solvent collecting flask	500mL hard glass S35/20
Flask clamp	For 35mm
Outer covering	Print coating finish made from cold rolling steel sheet
Door	Acrylic door
IN/OUT nipple connected to a cooling water hose	Outer diameter: 9mm
IN/OUT nipple connected to a vacuum water hose	Outer diameter: 6mm
External diameter	W260 x D400 x H428mm

RT200 extracts organic solvent substances from gas generated by the rotary evaporator during concentration work, and prevents the discharge of dangerous substances

Water Circulator (Chiller)



Model	CF301
Operating temp. range	-20°C~Room temp.
Temp. control accuracy	±2°C
Cooling capacity	~450W(387Kcal/h)at Liquid temp. 10°C ~360W(309Kcal/h)at Liquid temp. 0°C ~270W(232Kcal/h)at Liquid temp. -10°C
Temp. control	Refrigerator On/Off Control
Refrigerator, coolant	Air cooling 450W, R404A
Water bath dimension	151 x 151 x 177mm
Water capacity	~4L (Liquid amount 3L)
Power source	AC100 ~ AC240
Weight	~50kg

CF301 keeps water in the condenser at a stable low temperature which increases evaporation rate and maximizes solvent collection. Use with glassware A or B

Complete set with optional accessories



Rotary Evaporator RE601BW
Vacuum pump DTC22
Organic solvent recovery unit RT200
Cooling water circulator CF301
Stand with caster wheel 255282

Space Saving Design



Compact Rotary Evaporator, which can be neatly installed in a Fume Hood. The vertical condenser does not take up much space