Rotary Evaporator

Highly Functional & Programmable

RE601 / 801

Evaporating

1L(Standard)

Rotation speed

20~250rpm

Water / Oil bath temp. range

Water Bath

Oil Bath

Highly functional type

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



Highly functional type with automatic distillation

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



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



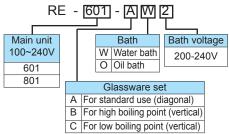
Rotation speed knob with digital display and a programmable vacuum regulator.

Specifications

Model	RE-601	RE801	
Motor	DC brushless motor (for rotation	n)	
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 With Glassware A (mm)	828(W)× 400(D)×727(H) (857(F	H)when raised)	
dimension* 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		
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^{*}External dimensions (excluding protrusions).

Set Guide



Set Selection Chart

Glass-		Bath (100-120V)		Bath (200-240V)			
Model	W	are)	Water bath	Oil bath	Water bath	Oil bath
AB		В	С	BM500	BO400	BM510	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		Г	•			•	
RE-601-CO	Г	Г	•		•		
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	BO410		
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	1)		
Temp. control system	PID control with m	nicroprocessor				
Temp. setting / display	Digital setting by	Digital setting by ▲/▼ keys				
system						
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

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



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

Joint



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

Trap ball



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

Steam Duct / Rotary Joint



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

Vacuum Pump



Model	DTC-22A	DTC-22B
Discharge rate	50Hz: 20L/min, 60Hz: 24L/m	in
Ultimate pressure	1.0x10 ³ Pa	
Motor	AC115V, Single phase	AC220V, Single phase
	50W, 4P, with condenser-i	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
	Pump, 5' of 8mm ID Rubber	5' of 8mm ID Rubber Hose,
	Hose, Hose Clamp	Hose Clamp

Organic Solvent Recovery Unit



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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	
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 temp10°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 temperture which increases evaporation rate and maximizes solvent collection. Use with glassware A or B

Connection method



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



Hose connection parts and trap

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

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