Rotary Evaporator

Highly Functional & Programmable

RE601 / 801

1L(Standard)

ving flask

Rotation spee

Nater / Oil bath temp. range

Water Bath Oil Bath Room temperature +5

Highly functional type

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

20~250rpm



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

RE-801-BW (Glassware B)

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.

RE-801-CW (Glassware C)

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	on)
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	C)
Readout of cooling water temperature	Depending on indicator (option	n)
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/de operations, 1-99 minutes for de	ecrements of 1 minute for preset escending timer operations
Memory	10 programs for each operation	on
Data operation	N/A	53 kinds of solvent data
Speed (rpm) setting	Rotation: Control knob Vacuur	n adjustment: Key pad
Safety measures (drive unit)	Circuit breaker, rotor for ove lift's lower limit, lift-up switch d	rload protection, manual adjustment of luring power outage
Safety measures (vacuum regulator)	malfunction, error display	nain unit / bath synchronized stop at
Synchronized control feature	Selection of automatic bath ste	op or automatic insulation
Lifting feature	One-touch motorized lift syste	m
	828(W)× 400(D)×727(H) (857	(H)when raised)
dimension* With Glassware B/C (mm)	643(W)× 400(D)×727(H) (857	(H)when raised)
Weight	~15.1kg (excluding the glassw	vare and the water/oil bath)
Power supply Main unit (50/60Hz)	AC100~240V 1.5A	

Set Guide RE -601 - AW 2 Bath voltage Main unit Bath 100~240V W Water bath 200-240V 601 O Oil bath 801 Glassware set A For standard use (diagonal) B For high boiling point (vertical) C For low boiling point (vertical)

Set Selection Chart

				Bath (100-120V)		Bath (200-240V)	
Model	ware			Water bath	Oil bath	Water bath	Oil bath
		В	С	BM500	BO400	BM510	BO410
RE-601-AW	•			•			
RE-601-AW2	•					•	
RE-601-AO	٠				•		
RE-601-AO2	٠						•
RE-601-BW		•		•			
RE-601-BW2		•				•	
RE-601-BO		٠			•		
RE-601-BO2		•					•
RE-601-CW			٠	•			
RE-601-CW2			٠			•	
RE-601-CO			٠		٠		
RE-601-CO2			٠				•
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			•				•

*External dimensions (excluding protrusions).

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

Wat	er bath		Oil bath		
BM500	BM510	BO400	BO410		
RT +5°C~90°C		RT +10°C~18	RT +10°C~180°C		
0~100°C		0~180°C	0~180°C		
±1.5°C (at agitatio	on)	±2°C (at agita	±2°C (at agitation)		
PID control with microprocessor					
m Digital setting by ▲/▼ keys					
~4L					
W340 x D349 x H231 mm					
~5.5kg					
AC100~120V 10.5~12.5A	AC200~240V 5.5~6.5A	AC100~120V 10.5~12.5A	AC200~240V 5.5~6.5A		
	BM500 RT +5°C~90°C 0~100°C ±1.5°C (at agitatic PID control with n Digital setting by ~4L W340 x D349 x H ~5.5kg AC100~120V	RT +5°C~90°C 0~100°C ±1.5°C (at agitation) PID control with microprocessor Digital setting by ▲/▼ keys ~4L W340 x D349 x H231 mm ~5.5kg AC100~120V AC200~240V	BM500 BM510 BO400 RT +5°C~90°C RT +10°C~18 0~100°C 0~180°C ±1.5°C (at agitation) ±2°C (at agita PID control with microprocessor Digital setting by ▲/▼ keys ~4L W340 x D349 x H231 mm ~5.5kg AC100~120V AC200~240V AC100~120V		





The electric kettle style tank can be removed freely





	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-run thermal protection re-			
		(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	О.D.Ф10 x I.D.Ф6 (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,Hose Clamp	Hose Clamp		

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	Outer diameter: 9mm
to a cooling water hose	
IN/OUT nipple connected	Outer diameter: 6mm
to a vacuum water hose	
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

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

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

Yamato Scientific America Inc. CATV1-201701

Standard

Optional

Vacuum seal

255284

255285

Product code Description RE50040090 Silicone rubber

ORE7042000 Teflon vacuum

 Hose connection parts and trap Product code Description

vacuum seal (black) standard

seal ORE70

(red) optional

Hose connection

Trap with nozzle

parts ORE30

ORE40