Rotary Evaporator

Basic with motorized lift and digital setting

RE301

1L(Standard)

Rotation spee

20~250rpm

Temperature range

Water Bath

Oil Bath



- One touch electric lift for easy up and down movement
- The evaporator's motor speed (rpm) is digitally set and displayed
- Unique durable vacuum seal suitable up to 2L flasks
- Stable rotation at low and high speeds
- Equipped with lift up switch in case of power outage
- Removable bath for easy cleaning and water replacement, with the option for water or oil bath
- Compact design fits into any fume hood
- Universal power supply: works with 100-240VAC

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.



Motorized Lift

Standard for all models and can be easily raised or lowered by a simple switch operation



Glass Condenser

Unique designed glass condenser to prevent liquid stagnation and backflow and increase cooling capacity with a 20% larger surface area to enable faster distillation. (Patent No. 4597021)



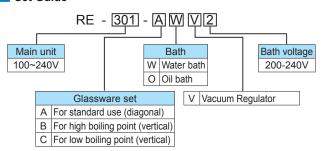
Control Panel

Rotation speed knob with digital display indication

Specifications

Model		RE301	
Motor		DC brushless motor	
Rotation speed		20~250 (rpm)	
Lift stroke		130mm	
Rotational speed setting		Control knob (digital indication)	
Safety function (main unit)		Manual-setting lower limit, motor overload	
Lifting feature		Motorized lifting system	
External	With Glassware A (mm)	828(W)× 400(D)×586(H) (716 when raised)	
dimension With Glassware B/C (mm)		643(W)× 400(D)×727(H) (857 when raised)	
Weight		~14.1kg (excluding glassware and water/oil bath)	
Power supply Main unit(50/60Hz)		AC100~240V 1.5A(excluding water/oil bath)	

Set Guide



Set Selection Chart

	Glassware			Bath (100-120V AC)		Bath (200-240V AC)		Vacuum
Model			are	Water bath	Oil bath	Water bath	Oil bath	regulator
	Α	В	С	BM500	BO400	BM510	BO410	VR
RE-301-AW	•			•				
RE-301-AW2	•					•		
RE-301-AO	•				•			
RE-301-AO2	•						•	
RE-301-AWV	•			•				•
RE-301-AWV2	•					•		•
RE-301-AOV	•				•			•
RE-301-AOV2	•						•	•
RE-301-BW		•		•				
RE-301-BW2		•				•		
RE-301-BO		•			•			
RE-301-BO2		•					•	
RE-301-BWV		•		•				•
RE-301-BWV2		•				•		•
RE-301-BOV		•			•			•
RE-301-BOV2		•					•	•
RE-301-CW			•	•				
RE-301-CW2			•			•		
RE-301-CO			•		•			
RE-301-CO2			•				•	
RE-301-CWV			•	•				•
RE-301-CWV2			•			•		•
RE-301-COV			•		•			•
RE-301-COV2			•				•	•

Operational Accessories

Glassware Set

Product code	Set
255291	Set A (use with cooling water) The Standard glass set where condenser is diagonally, 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







BM500 The electric kettle style tank can be removed freely

Product name	Water bath		Oil	bath	
Model	BM500	BM510	BO400	BO410	
Temp. control range	RT +5°C~90°C		RT +10°C~180°C	RT +10°C~180°C	
Temp. setting range	0~100°C		0~180°C		
Temp. adjustment accuracy	±1.5°C (at agitation)	±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 10.5~12.5A	AC200~240V 5.5~6.5A	AC100~120V 10.5~12.5A	AC200~240V 5.5~6.5A	

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 with o-ring and nut

Organic Solvent Recovery Unit



tooovory onne	
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*D400*H428mm

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

Cooling 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 177
Water capacity	~4L (Liquid amount 3L)
Power source	AC100 ~ AC240
Weight	~50ka

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

Vacuum Pump



Model	DTC-22A	DTC-22B	
Discharge rate	50Hz: 20L/min, 60Hz:	24L/min	
Ultimate pressure	1.0x10 ³ Pa		
	AC115, Single phase	AC220, Single phase	
Motor	50W, 4P, with condenser-run thermal		
	protection relay (autor		
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 (G	1/4)	
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	Pump, 5' of 8mm ID	

Vacuum Regulator



O	r			
	Model	VR300		
	Setting range of vacuum	0~981hPa		
	Measurable range of vacuum	0~1033hPa	0~1033hPa	
	Resolution of vacuum	1hPa		
	Setting range of hysteresis	1~50hPa		
	Operation modes	Free, fixed temperature timer, descending and		
	Setting range of timer	Fixed operation	1~999min	
	Setting range of times	Descending operation	1~99min	
	Safety features	Self-diagnosis, ala	rm	