

Rotary Evaporator

Basic with motorized lift and digital setting

RE301

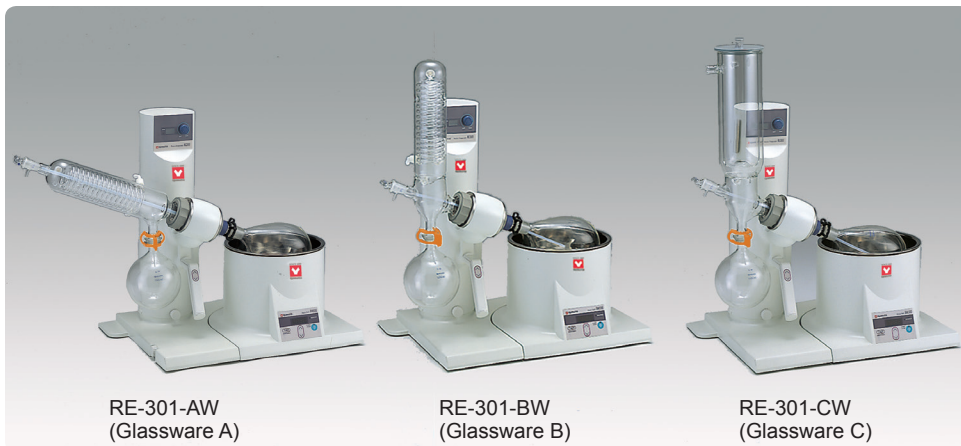
Evaporating/
Receiving flask 1L (Standard)

Rotation speed 20~250rpm

Temperature range

Water Bath
Room temperature +5~90°C

Oil Bath
Room temperature +10~180°C



RE-301-AW
(Glassware A)

RE-301-BW
(Glassware B)

RE-301-CW
(Glassware C)

- 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)



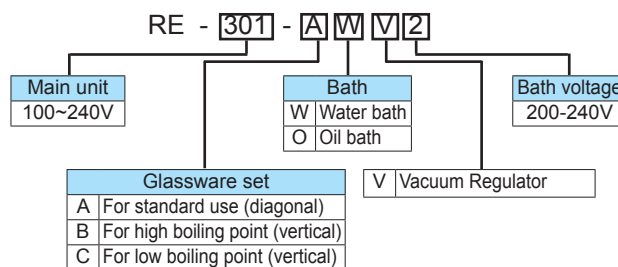
● Control Panel

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 dimension	With Glassware A (mm) 828(W)× 400(D)×586(H) (716 when raised) 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

Model	Glassware			Bath (100-120V AC)		Bath (200-240V AC)		Vacuum regulator
	A	B	C	Water bath BM500	Oil bath BO400	Water bath BM510	Oil bath BO410	
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) Standard glass set where condenser is set diagonally, suitable for standard distillation.
255292	Set B (use with cooling water) The condenser is set vertically, 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		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)	
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 12.5~10.5A	AC200~240V 6.5~5.5A	AC100~120V 12.5~10.5A	AC200~240V 6.5~5.5A

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



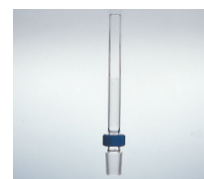
Joint

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 (29/42)	with o-ring and nut

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*D400*H428mm

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

Vacuum Pump



Model	DTC-22A	DTC-22B
Discharge rate	50Hz: 20L/min, 60Hz: 24L/min	
Ultimate pressure	1.0x10 ⁻³ Pa	
Motor	AC115, Single phase 50W, 4P, with condenser-run thermal protection relay (automatic reset)	AC220, 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.Φ10 x I.D.Φ6 (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

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 177
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

Vacuum Regulator



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