Rotary Evaporator

Standard rotary evaporator with manual lift



Features

5~315 rpm rotation speed range Turning the encoder dial slowly increases or decreases the value by 1, turning it quickly changes the value by 10. Selectable rotation mode (forward,

reverse, auto reverse) RPM display brightness can be



Encoder dial Run/Stop

Condenser is fastened tightly Yamato adopts a condenser bracket screwed firmly to the motor box. It does not loosen or rattle even when jack moves up and down.

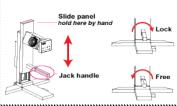
Vertical condenser (Glassware B) is used in conjunction with the condenser bracket.



Convenient height adjustment Slide panel employs a springloaded jack to lift up.

Easily twist the handle counterclockwise, adjust, lock and release. Maximum height is 200mm.

Panel jumps up when releasing jack's lock without glassware mounted. Be sure to hold top of the slide panel by hand whenever releasing the lock.



 Cables are stored neatly, simply and smartly

The AC adapter holder at the back of the main unit helps to keep in place the AC adapter and excess cables. Rear cover keeps dust and liquid off the cables and organized wiring is achieved when unit is placed inside a laboratory bench and fume hood.





Set inversion function

in a standard fume hood.

installation location.

Glassware and bath can be set in either side, left or right, depending

on user's dominant hand and

Three units of Glassware B (with

vertical condenser) can be installed

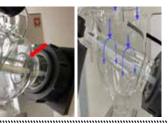
• Two types of baths Option for water and oil bath. Large capacity 5L bath with 240mm I.D. and a full complement of safety functions such as automatic overheat prevention and temp. upper limit difference.



 Uniquely designed glass condenser
This prevents liquid stagnation and

backflow improving durability of vacuum seal

When using ketone or ether solvents, standard vacuum seal swells. It is recommended to use PTFE vacuum seal.



• Condenser insulation kit This insulating material is used to suppress condensation on the surface of the cooling pipe. Standard attached to Glassware A and B.



Specifications

Model		RE202-A/212-A (Main Unit)	RE202A-A/212A-A (Glassware A)	RE202B-A/212B-A (Glassware B)	
Operating ambient temp. range		5~35°C			
Performance *1	Speed range	5~315 rpm * ³			
	Evaporation capacity		Up to 23	3 ml/min	
	RPM display		Digital display / Encoder dial setting		
Functions	Rotation mode		Forward/Reverse/Auto reverse		
	Spring-loaded jack	Manual balance (M	lax. height 200 mm, stepless regulat	ion, one-touch lock)	
Configuration	Rotary motor		DC brushless (simple servo)		
Comgulation	Condenser retention	Retaining b	racket for vertical condenser (conde	nser type B)	
Safety functions			protection, overvoltage, low voltage, in internal circuit, overcurrent protection		
			Double corrugated tube (cooling surface: 0.143 m ²)	Double corrugated tube (cooling surface: 0.143 m ²)	
	Cooling condenser		Suction port: GL-14 (lower), Φ10 nozzle	Suction Port: GL-14 (upper), Φ10 nozzle	
		Cooling port: GL14 (two places in lower part), two φ10 nozzles			
	Compatible evaporation flask	0-2000ml for TS24. Use optional reducer to attach small flasks.			
- · · ·	Compatible receiving flask	100-2000 ml			
Standard	External dimensions *2 (W x D x H)	375 × 324 × 445	719 × 324 × 534	529 × 324 × 745	
	Overall dimensions *2 (including bath) (W x D x H)		744 × 365 × 534	554 × 365 × 745	
	Power rating	RE202: 100-115 VAC single phase 1A RE212: 200-230 VAC single phase 1A Approx. 2.0 m with inlet plug			
	Power cable				
Weight		Approx. 7.0 kg Approx. 9.0 kg (including RE unit)			
Accessories		Main unit: AC adapter (1), power cable (1), bath guide (1), rear cover (1), single-sided tape fastener rol (1), double-sided tape, fastener roll (1), condenser bracket (1), hex wrench (1), Instruction manual (1) warranty card (1)			
		Glass set: Cooling condenser (type A/B)(1), rotary joint (1), evaporation flask (1), receiving flask (1), ball joint clamp (1), flask clip (1), vacuum seal (1), condenser insulation kit (1), flask removal tool			

 \star1 Performance data above based on 23 ±5 $^{\circ}\text{C}$ room temperature, 65%RH ±20% humidity, and no process load.

*2 Dimensions excludes protrusions.

*3 Applicable rotation speed range and sample volume depend on the capacity of evaporation flask.

Operational Accessories

Glassware Set				
Product code	Set			
	Set A (use with chiller) Traditional glass set where condenser is tilted diagonally			
RG202B	Set B (use with chiller) Standard glass set where condenser is set vertically, suitable for limited space			

Bath Specifications

Product name	Water bath		Oil bath		
Model	BM302-A	BM312-A	BO302-A	BO312-A	
Temp. control range *1	RT +10°C~90°C		RT +10°C~180°	C	
Temp. control accuracy *1	±1.0°C		±1.5°C (water), :	±2°C (oil)	
Safety features	Automatic overheat prevention, independent overheat prevention (fixed temp.), temperature upper limit error, overcurrent protection fuse				
Other features	Calibration offset, overshoot alert, auto resume (selectable), 2A service outlet (for AC100~115V)			selectable), 2A	
Bath capacity	~5L				
Internal dimensions	Ф240 x H119 mi	n			
External dimensions *2	Φ262(max depth 286mm) x H240 mm				
Weight	~4.5kg				
Power supply (fuse capacity)	AC100~115V 10~12A (15A)	AC200~230V 5~6A (10A)	AC100~115V 10~12A (15A)	AC200~230V 5~6A (10A)	

 *1 Performance data above based on 220 VAC ±5% supplied power, 23 ±5 °C ambient, 65%RH. ±20% humidity, and no process load. Temp accuracy measured in JTM K05. *2 Dimensions excludes protrusions.

- Dimensions excludes protions

RE	- 2	12]- [A]W2][A]]	
Main unit Glass		Glassware set		Territory
202 115V	Α	Traditional (diagonal)		USA
212 220V	В	Standard (vertical)		

	Wa	Water / Oil bath				
Code	Model	Model Voltage Capacity				
W	BM302	115V	5L			
W2	BM312	220V	5L			
0	BO302	115V	5L			
02	BO312	220V	5L			

Set Selection Chart

Model	Glassware		Water Bath		Oil Bath	
Woder	А	В	BM302	BM312	BO302	BO312
RE-202-AWA	•		•			
RE-202-BWA		٠	•			
RE-202-AOA	•				•	
RE-202-BOA		•			•	
RE-212-AW2A	•			•		
RE-212-BW2A		•		•		
RE-212-AO2A	٠					•
RE-212-BO2A		•				•

Set Guide

Optional Accessories

Glassware



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255712

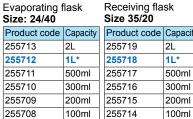
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255710

255709

255708





*Standard

Size: 29/38					
Product code	Capacity				
255706	2L				
255705	1L				
255704	500ml				
255703	300ml				
255702	200ml				
255701	100ml				

Product code Capacity 2L 1L* 500ml



RG202A		
Product code	Size	Туре
255720	29/38 L284mm	Standard
255722	24/40 L286mm	Standard
255724	29/38 L284mm	Transparent
255726	24/40 L286mm	Transparent
RG202B		
Product code	Size	Туре
255721	29/38 L208mm	Standard
255723	24/40 L210mm	Standard
255725	29/38 L208mm	Transparent
255727	24/40 L210mm	Transparent

Rotary joint different diameter

Product code	Description
255732	$24/40 \rightarrow 24/40 \text{ L105mm}$
255733	24/40 → 19/38 L103mm
255734	$24/40 \rightarrow 15/25 \text{ L90mm}$
255728	29/38 \rightarrow 29/38 L106mm
255729	29/38 \rightarrow 24/40 L108mm
255731	29/38 \rightarrow 15/25 L105mm
255730	29/38 → 19/38 L105mm



FKM vacuum seal Product code Description 255740 Standard



PTFE vacuum seal Product code Description Recommended 255741 for ketone and other solvents

Water Circulator (Chiller)

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Model	CF302L-A / CF312L-A		
Operating temp. range	-20°C~30°C		
Temp. control	±1.0°C (≥ 0°C)		
accuracy	±1.5°C (< 0°C)		
Cooling capacity	~420W at liquid temp10°C ~280W at liquid temp-10°C		
Temp. control	Refrigerator On/Off		
Refrigerator, coolant	Air cooling 450W, R404A		
External dimension	205 x 396 x 535 mm		
(including protrusions)			
Water capacity	~3.9L (Liquid volume 3.5L)		
Power source 60Hz	115V 7.5A / 220V 4A		
Weight	~31kg		

CF302L keeps water in the condenser at a stable low temp. which increases evaporation rate and maximizes solvent collection.

Easy maintenance of air intake filter User-friendly controller Convenient drainage of waste water Compact

Complete set with optional accessories



Rotary Evaporator RE-202-BWA Vacuum pump DTC22A Water circulator (chiller) CF302L-A

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 (automatic reset)			
Rated current	1.20/1.32A	0.60/0.72A		
Raleu current	(50/60Hz)	(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			
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		

Space Saving Design



Compact rotary evaporator which can be neatly installed in a fume hood. Vertical condenser (Glassware B) does not take up much space.