Rotary Evaporator

Highly efficient standard rotary evaporator with manual lift

RE202/212

1L (Standard)



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 adjusted in 8 levels.



Condenser is fastened tightly

jack moves up and down.

Yamato adopts a condenser bracket

does not loosen or rattle even when

Vertical condenser (Glassware

B) is used in conjunction with the

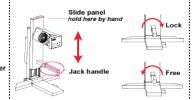
condenser bracket.

screwed firmly to the motor box. It

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.



Set inversion function

Glassware and bath can be set in either side, left or right, depending on user's dominant hand and installation location.

Three units of Glassware B (with vertical condenser) can be installed in a standard fume hood.

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.



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.



Condenser insulation kit

This insulating material is used to suppress condensation on the surface of the condenser. Standard attached to Glassware A



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







Specifications

	Model	RE202/212 (Main Unit)	RE202A/212A (Glassware A)	RE202B/212B (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 (Max. height 200 mm, stepless regulation, one-touch lock)				
Configuration	Rotary motor		DC brushless (simple servo)			
Configuration	Condenser retention	Retaining b	racket for vertical condenser (conde	nser type B)		
Safety functions			protection, overvoltage, low voltage in internal circuit, overcurrent protec			
	Cooling condenser		Double corrugated tube (cooling surface: 0.143 m²)	Double corrugated tube (cooling surface: 0.143 m²)		
			Suction port: GL-14 (lower), Ф10 nozzle	Suction Port: GL-14 (upper), Ф10 nozzle		
		Cooling port: GL14 (two places in lower part), two φ10 nozzles				
	Compatible evaporation flask	0-2000ml for	TS24. Use optional reducer to attack	h 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				
	Power cable		Approx. 2.0 m with inlet plug			
	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 roll (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				

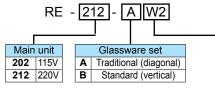
^{*1} Performance data above based on 23 ±5 °C room temperature, 65%RH ±20% humidity, and no process load.

Operational Accessories

Glassware Set

Product code	Set
RG202A	Set A (use with chiller) Traditional glass set where condenser is tilted diagonally
	Set B (use with chiller)
RG202B	Standard glass set where condenser is set vertically, suitable for limited space

Set Guide



	Water / Oil bath			
Code	Model	Voltage	Capacity	
W	BM302	115V	5L	
W2	BM312	220V	5L	
0	BO302	115V	5L	
O2	BO312	220V	5L	

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)			
Bath capacity	~5L			
Internal dimensions	Ф240 x H119 mi	m		
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)

 $^{^{\}star 1}$ 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. $^{\star 2}$ Dimensions excludes protrusions.

Set Selection Chart

Model	Glassware		Water Bath		Oil Bath	
Model	Α	В	BM302	BM312	BO302	BO312
RE-202-AW	•		•			
RE-202-BW		•	•			
RE-202-AO	•				•	
RE-202-BO		•			•	
RE-212-AW2	•			•		
RE-212-BW2		•		•		
RE-212-AO2	•					•
RE-212-BO2		•				•

^{*2} Dimensions excludes protrusions.

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

Optional Accessories

Glassware











Product code Capacity

2L

1L*

500ml

300ml

200ml



29/38 L284mm

24/40 L286mm

Туре

29/38 L284mm | Transparent

24/40 L286mm Transparent

Standard

Standard*





Rotary joint different diameter

Product code	Description
255732	24/40 → 24/40 L105mm
255733	24/40 → 19/38 L103mm
255734	24/40 → 15/25 L90mm
255728	29/38 → 29/38 L106mm
255729	29/38 → 24/40 L108mm
255731	29/38 → 15/25 I 105mm

29/38 → 19/38 L105mm

FKM vacuum seal

Product code	Description	
255740	Standard	



PTFF vacuum seal

FIFE Vacuulii Seai			
Product code	Description		
255741	Recommended for ketone and other solvents		

Evaporating flask Size: 24/40

Product code	Capacity
255713	2L
255712	1L*
255711	500ml
255710	300ml
255709	200ml
255708	100ml

Product code Capacity

2L

1L

500ml

300ml

200ml

Size: 29/38

255706

255705

255704

255703

255702

255701

255714

255719

255718

255717

255716

255715

*Standard

100ml	Product code	Size	Туре
	255721	29/38 L208mm	Standard
	255723	24/40 L210mm	Standard*
	255725	29/38 L208mm	Transparent
	255727	24/40 L210mm	Transparent

Product code Size

255720

255722

255724

255726

RG202B

100ml 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	
	Cooling capacity	~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)	(225 x 434 x 564 mm)	
	Water capacity	~3.9L (Liquid volume 3.5L)	
	Power source 60Hz	115V 7.5A / 220V 4A	
	Weight	~31ka	



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

Vacuum Pump

255730



Model	DTC-22A	DTC-22B		
Discharge rate	50Hz: 20L/min, 60Hz: 24L/min			
Ultimate pressure	1.0x10³Pa			
	AC115, Single phase	AC220, Single phase		
Motor	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	О.D.Ф10 x I.D.Ф6 (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		

Complete set with optional accessories



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

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.