

# Rotary Evaporator

Manual lift with analog control

## RE201/211

Evaporating /  
receiving flask

1L (Standard)

Rotation speed  
control range

20~180rpm

Water bath temp. range

Room Temperature+5 to 95°C



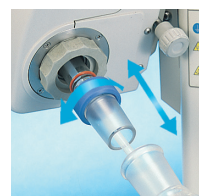
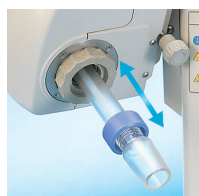
RE-201-200A with optional arm jack  
(Glassware A)

RE-201-200B with optional arm jack  
(Glassware B)

RE-201-200C with optional arm jack  
(Glassware C)

### Features

- Speed can be changed freely with the control knob
- Option for either a 4L or 7L capacity water bath
- Adjustable locking position of rotary joint (patent # 3220033)
- Evaporation flasks are easily removable with built in flask remover
- Optional arm jack permits setting flexibility



### Specifications

Model	RE201	RE211
Rotational number control range	20~180rpm	
Drive system	Worm gear system	
Motor	Induction motor, 25W	
Ambient temperature range	5~35°C	
External dimensions(W×D×Hmm)	420×290×837	
Weight	~ 11 kg	
Power source 50/60Hz	AC 115V 50/60Hz 0.6A	AC 220V 50/60Hz 0.3A

### Set Selection Chart

Model	Glassware			Water Bath		
	A	B	C	BM100	BM200	BM401
RE-201-100A	●			●		
RE-201-100B		●		●		
RE-201-100C			●	●		
RE-201-200A	●				●	
RE-201-200B		●			●	
RE-201-200C			●		●	
RE-201-401A	●					●
RE-201-401B		●				●
RE-201-401C			●			●

### Set Guide

RE - <span style="border: 1px solid black; padding: 2px;">201</span> - <span style="border: 1px solid black; padding: 2px;">100</span> <span style="border: 1px solid black; padding: 2px;">A</span>						
Main unit		Water bath			Glassware set	
201	115V	Model	Voltage	Capacity	Controller	A For standard use (diagonal)
211	220V	100	115V	4L	Analog	B For high boiling point (vertical)
		110	220V	4L	Analog	C For low boiling point (vertical)
		200	115V	7L	Analog	
		210	220V	7L	Analog	
		401	115V	7L	Digital	
		410	220V	7L	Digital	

Model	Glassware			Water Bath		
	A	B	C	BM110	BM210	BM410
RE-211-110A	●			●		
RE-211-110B		●		●		
RE-211-110C			●	●		
RE-211-210A	●				●	
RE-211-210B		●			●	
RE-211-210C			●		●	
RE-211-410A	●					●
RE-211-410B		●				●
RE-211-410C			●			●

## Operational Accessories

### Glassware Set

Product code	Set
RE-200-183	Set A (use with cooling water) The Standard glass set where condenser is tilted diagonally, suitable for standard distillation
RE-200-184	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
RE-200-185	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



Model	BM100	BM110	BM200	BM210	BM401	BM410	BO601
Type	Water bath						Oil bath
Temp. control range during operation	RT +5°C~95°C						RT+5°C~180°C
Temp. setting range	0°C~100°C						0°C~200°C
Temp. display method	Glass thermometer				Digital display shows measured / set temperature		
Set up system	Analog setting				Digital setting by ▲/▼ keys		
Bath capacity	4L		7L				
Bath dimension	ø200 x Depth120 mm		ø250 x Depth150 mm				
Weight	~3.5kg		~6.0kg		~7.0kg		~8.0kg
Power source 50/60Hz	115V 4.5A	220V 2.3A	115V 9A	220V 4.5A	115V 11A	220V 5.2A	115V/220V

## Optional Accessories

### Glassware



Evaporating flask

Product code	Size	Capacity
25527324	24/40	2L
25527334	24/40	500ml
25527344	24/40	300ml
25527354	24/40	200ml
25527364	24/40	100ml



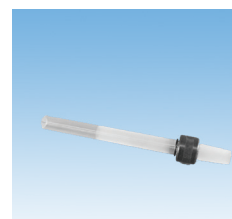
Receiving flask

Product code	Size	Capacity
LT00016210	35/20	2L
LT00016180	35/20	500ml
LT00016209	35/20	300ml
LT00016208	35/20	200ml
LT00016207	35/20	100ml



Trap ball

Product code	Description
LG1910270055	TS 24/40-24/40



Steam duct / Rotary joint

Product code	Description
RG00A30011 (24/40)	With o-ring and nut

### Armjack



Product code	Rod O.D.
255080	21.7mm

### 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

### 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 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	AC115V / AC220V
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 Pump



Model	DTC-22A	DTC-22B
Discharge rate	50Hz 20L/min 60Hz 24L/min	
Ultimate pressure	1.0x10 <sup>-3</sup> Pa (7.5 Torr)	
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. ø10 x I.D. ø6 (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

### Vacuum Regulator



Model	VR100
Setting range of vacuum	1~1,013hPa
Grading pressure setting range	66~600 hPa
Grading time setting range	1~99hrs.59mins.
Display	Digital setting by ▲/▼ keys
Control mode	Fixed value control, ramp control
Output	For vacuum, leak valve
Hose connector	Nozzle O.D. ø9.5mm
Dimension, weight	W155*D190*H145mm, ~3.5kg
Power supply	AC100V 50/60Hz 1A External transformer required