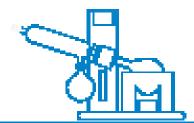
Yamato Scientific America

Innovating Science for over 130 Years



Yamato Rotary Evaporators

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Highly Functional & Programmable		
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ROTARY EVAPORATOR OVERVIEW



RE201/211

- Manual lift with analog control
- Option for 3 different types of glassware
- Option for either a 4L or 7L capacity water bath
- Option for 7L capacity oil bath
- Optional arm jack permits setting flexibility

RE202-A/212-A

- Market leader in rotation speed range at 5~315 rpm
- Designed with set inversion function
- Standard equipped with condenser insulation kit
- Convenient height adjustment
- Integration of servo type motor with strong high torque
- Cables stored neatly, simply and smartly
- Option for 2 types of bath: water bath and oil bath



- Easy manual operation
- Digitally set and displayed motor speed (rpm)
- Equipped with motorized lift to easily raise or lower unit
- Option for 3 different types of glassware
- Universal power supply for main unit: works with 100~240VAC
- Option for 4L water or oil bath at 115~240VAC



- Programmable
- Digital setting and display for motor speed (rpm), vacuum control and vapor temperature
- Equipped with vacuum regulator and vapor temperature indicator
- Equipped with motorized lift to easily raise or lower unit
- Option for 3 different types of glassware
- Universal power supply for main unit: works with 100~240VAC
- Option for 4L water or oil bath at 115~240VAC





ROTARY EVAPORATOR OVERVIEW



- Programmable
- Bath synchronized control
- Automatic distillation and 53 solvent presets
- Digital setting and display for motor speed (rpm), vacuum control and vapor temperature
- Equipped with vacuum regulator and vapor temperature indicator
- Equipped with motorized lift to easily raise or lower unit
- Option for 3 different types of glassware
- Universal power supply for main unit: works with 100~240VAC
- Option for 4L water or oil bath at 115~240VAC



Manual lift with analog control

RE201/211



(Glassware B)

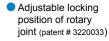
RE-201-200A with optional arm jack (Glassware A)

Features

Speed can be changed freely with the control knob



 Option for either a 4L or 7L capacity water bath





 Evaporation flasks are easily removable with built in flask remover



Set Selection Chart

Model	Glassware			Water Bath		
Model	Α	В	С	BM100	BM200	BM401
RE-201-100A	•			•		
RE-201-100B		•		•		
RE-201-100C			•	•		
RE-201-200A	•				•	
RE-201-200B		٠			•	
RE-201-200C			•		•	
RE-201-401A	•					٠
RE-201-401B		•				•
RE-201-401C			•			٠

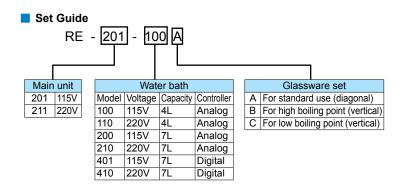
(Glassware C)

Optional arm jack permits setting flexibility

Model	Glassware			Water Bath		
WOUEI	А	В	С	BM110	BM210	BM410
RE-211-110A	•			•		
RE-211-110B		•		•		
RE-211-110C			•	•		
RE-211-210A	•				•	
RE-211-210B		•			•	
RE-211-210C			٠		•	
RE-211-410A	٠					•
RE-211-410B		•				•
RE-211-410C			•			•

Specifications

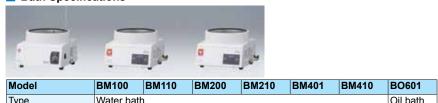
Model	RE201	RE211	
Rotational number control range	20~180rpm		
Drive system	Worm gear system		
Motor	Induction motor, 25W		
Ambient temperature range	5~35°C		
External dimensions(W×D×Hmm)	420×290×837		
Weight	~ 11 kg		
Power source 50/60Hz	AC 115V 50/60Hz 0.6A	AC 220V 50/60Hz 0.3A	



Operational Accessories

Glasswar	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



Туре	Water bath	Water bath				Oil bath	
Temp. control range during operation	RT +5°C~9	₹T +5°C~95°C					RT+5°C ~180°C
Temp. setting range	0°C~100°C	0°C~100°C				0°C~200°C	
Temp. display method	Glass thermometer Digital display shows / set temperature			measured			
Set up system	Analog set	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







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



 Product code
 Description

 RE-200-401
 With o-ring and (24/40)



Product code Rod O.D.

21.7mm

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

Water Circulator (Chiller)

	Model	CF302L-A / CF312L-A
7	Operating temp. range	-20°C~30°C
rë l	Temp. control	±1.0°C (≥ 0°C)
211.	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
1.	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	~31kg

Organic Solvent Recovery Unit

gaine een en ra		
	Model	RT200
and the second second	Condenser	Hard glass
2 P(7200	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

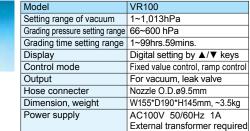
Vacuum Pump



Model		DTC-22A	DTC-22B		
Discharge	50Hz	20L/min			
rate	60Hz	24L/	min		
Ultimate p	ressure	1.0x10 ³ Pa (7.5 Torr)			
Motor		AC115, Single phase			
		50W, 4P, with conder			
		protection relay (auto	matic reset)		
Rated cu	rrent	1.20/1.32A (50/60Hz)	0.60/0.72A (50/60Hz)		
Speed		1260/1580rpm 1275/1570rpm			
Inlet and ou	tlet piping	О.D.ø10 x I.D.Ф6 (G1/4)			
Weight		7.1kg			
Air tempe		0~40°C			
Overall din	nensions	W142 x L272 x H202	mm		
Product of	code	DTC22A115RERKIT	DTC22B220RERKIT		
Compone	ents	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		

255080

Vacuum Regulator



www.yamato-usa.com

Highly efficient standard rotary evaporator with manual lift

<text>

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

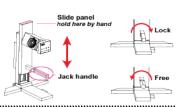
Vertical condenser (Glassware B) is used in conjunction with the condenser bracket.



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

installation location.

Two types of baths

Option for water and oil bath.

I.D. and a full complement of

overheat prevention and temp.

upper limit difference.

Large capacity 5L bath with 240mm

safety functions such as automatic

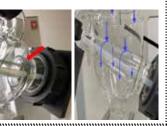
Glassware and bath can be set in either side, left or right, depending

on user's dominant hand and

 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 condenser. 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 ml/min				
	RPM display		Digital display / Encoder dial setting			
Functions	Rotation mode	Forward/Reverse/Auto reverse				
	Spring-loaded jack	Manual balance (M	ax. height 200 mm, stepless regulat	ion, 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 m ²)	Double corrugated tube (cooling surface: 0.143 m ²)		
			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				
	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 ro (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				

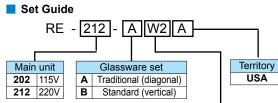
 \star1 Performance data above based on 23 ±5 $^{\circ}\text{C}$ room temperature, 65%RH ±20% humidity, and no process load.

*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				
RG202A	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			



	Water / Oil bath			
Code	Model Voltage Capacity			
W	BM302	11	5V	5L
W2	BM312 22		0V	5L
0	BO302	11	5V	5L
02	BO312	22	0V	5L

Bath Specifications

Bath Specifications						
Product name	Water bath		Oil b	ath		
Model	BM302-A	BM312-A	BO302-A	BO312-A		
Temp. control range *1	RT +10°C~90°C		RT +10°C~180°	С		
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	capacity ~5L					
Internal dimensions	Φ240 x H119 mm					
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.

Set Selection Chart

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

Optional Accessories

Glassware



255713

255712

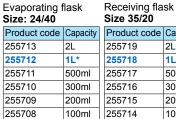
255711

255710

255709

255708





*Standard

Size: 29/38				
Capacity				
2L				
1L				
500ml				
300ml				
200ml				
100ml				

Rotary joint RG202A Product code Capacity Product code Size 2L 255720 1L* 255722 500ml 255724

300ml 200ml **RG202B** 100ml 255721



29/38 L284mm

24/40 L286mm

Туре

Standard

Standard*



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	$29/38 \rightarrow 24/40 \text{ L108mm}$
255731	$29/38 \rightarrow 15/25 \text{ L105mm}$
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)

đ	-	٠.,	
	-		
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E	-	10	
E	_	17	
	-		
-	_		
1		i/-	

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)	(225 x 434 x 564 mm)
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



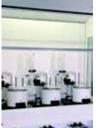
Rotary Evaporator RE-202-BWA Vacuum pump DTC22A Water circulator (chiller) CF302L-A

Vacuum Pump



Model	DTC-22A	DTC-22B		
Discharge rate	50Hz: 20L/min, 60Hz: 24L/min			
Ultimate pressure	1.0x103Pa			
	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				
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.



Basic with motorized lift and digital setting

RE301



Features

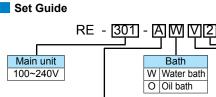


Adjustable Rotary Joint

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)

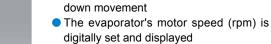


Quick Release of Evaporating Flask The evaporating flask can be released easily and quickly by turning the flask release nut.



Glassware set V Vacuum Regulator A For standard use (diagonal) B For high boiling point (vertical)

C For low boiling point (vertical)



- Unique durable vacuum seal suitable up
- Stable rotation at low and high speeds
- Equipped with lift up switch in case of
- Removable bath for easy cleaning and water replacement, with the option for
- Compact design fits into any fume hood
- Universal power supply: works with 100-

Bath voltage

200-240V





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)		

	Glassware		aro	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	•		1				•	•	
RE-301-BW		•		•					
RE-301-BW2		٠				•			
RE-301-BO		•			•				
RE-301-BO2		•					•		
RE-301-BWV		•		•				•	
RE-301-BWV2		٠				•		•	
RE-301-BOV		•	1		•			•	
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		1	•				•	•	

Operational Accessories

Glassw	are Set	Bath Specifications					
Product code	Set		1-0	(Cartonia)	N	BM500	
255291	Set A (use with cooling water) Standard glass set where condenser is set diagonally, suitable for standard distillation.		0				ic kettle style removed freely
255292	Set B (use with cooling water) The condenser is set vertically,			-			
	suitable for distillation of solvent	Product name	Water bath		Oil bath		
	with higher boiling points. When space is limited, the use of a vertical	Model	BM500	BM510	BO400		BO410
	condenser set up is recommended.	Temp. control range	RT +5°C~90°C RT +			C~180°C	
255293	Set C (use with dry ice)	Temp. setting range	0~100°C 0~180°			;	
200290	The cold finger glass condenser	Temp. adjustment accuracy	±1.5°C (at agitation) ±2°C (at agitation)			(at agitation)	
	is set vertically, suitable for	Temp. control system	PID control with microprocessor				
	distillation of volatile or low	Temp. setting / display system	Digital setting by ▲/	▼ keys			
	boiling point solvents. When	Bath capacity	~4L				
	space is limited, the use of a	External dimensions	W340 x D349 x H23	1 mm			
	vertical condenser set up is	Weight	~5.5kg				
	recommended.	Power supply	AC100~120V 12.5~10.5A	AC200~240V 6.5~5.5A	AC100~ 12.5~10.		AC200~240V 6.5~5.5A

Optional Accessories

Glassware

Evaporating flask

Product code Size

LT00016205

LT00016206 29/42

LT00016204 29/42

LT00016203 29/42

LT00016202 29/42

2

PT2N



Capacity 35/20 2L LT00016180 35/20 500ml LT00016209 35/20 300ml 200ml LT00016208 35/20 LT00016207 35/20 100ml

Water Circulator (Chiller)

29/42

Capacity

500ml

300ml

200ml

100ml

2L

1	-	١.,	
-		1	
		2	
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	-		
-			
1			

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	~31kg

Organic Solvent Recovery Unit

	Model	RT200
100	Condenser	Hard glass
10.00	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	
1	IN/OUT nipple connected	Outer diameter: 6mm
1	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



Product code Description RE200GT010 TS 29/42- 24/40 RE200GT012 TS 29/42- 29/42



RE200GT002 TS 29/42- 29/42 RE200GT003 TS 29/42- 24/40

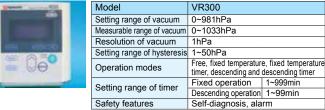


Vacuum Pump



Model	DTC-22A	DTC-22B
Discharge rate	50Hz: 20L/min, 60Hz:	24L/min
Ultimate pressure	1.0x103Pa	
	AC115, Single phase	
Motor	50W, 4P, with conden	
	protection relay (autor	matic 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 х І.D.Ф6 (Gʻ	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	DTC-22A Dry Vacuum
	Pump, 5' of 8mm ID	Pump, 5' of 8mm ID
	Rubber Hose, Hose Clamp	Pump, 5' of 8mm ID Rubber Hose, Hose Clamp

Vacuum Regulator



12 ROTARY EVAPORATOR CATALOG 202103

Highly Functional & Programmable

RE601 / 801

1L(Standard) ving flast

Rotation spee 20~250rpm

Nater / Oil bath temp. range

Water Bath Oil Bath Room temperature +5

Highly functional type

Standard equipped with motorized lift, vacuum regulator, vapor temperature display functions



Highly functional type with automatic distillation

Standard equipped with motorized lift, vacuum regulator, vapor temperature display and automatic distillation function



Common features of RE601 and RE801

- One touch electric lift for easy up and down movement
- Digital setting and display for motor speed (rpm), vacuum and vapor temperature
- Stable rotation at low and high speeds
- Unique durable vacuum seal suitable up to 2L flasks
- One touch operation for displaying and saving operating conditions
- Equipped with lift-up switch in the event of power outage
- Compact, fits into any fume hood
- Universal power supply: works with 100-240VAC

Unique features of RE801

- Automatic distillation
- Continuous bath control
- Data on 53 solvents installed as default

RE-801-BW (Glassware B)

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.

Glass Condenser (prevents liquid stagnation)



The vertical condenser prevents liquid from stagnating. New condenser tubes (type A&B) are designed to increase cooling capacity with a 20% larger surface area. (Patent No. 4597021)

Control Panel



Rotation speed knob with digital display and a programmable vacuum regulator.

Specifications

Model	RE-601 RE801				
Motor	DC brushless motor (for rotation	۱)			
Controller	Vacuum regulator VR600	Vacuum regulator VR800			
Rotation speed	20~250 (rpm)				
Lift stroke	130mm				
Setting range of vacuum	0~981hPa				
Measurable range of vacuum	0~1033hPa				
Resolution of vacuum	1hPa				
Setting range of hysteresis	1~50hPa				
Resolution of vapor temperature indicator	Selectable (either 1°C or 0.1°C)				
Readout of cooling water temperature	Depending on indicator (option)				
Resolution of cooling water temperature indicator	1°C or 0.1°C				
Operation modes	Free, fixed temperature, fixed temperature timer, descending, and descending timer Free, fixed temperature, fixed temperature timer, descending, and descending timer, auto I (auto oper with continuous drying), and auto operation for distillation of single s				
Setting range of timer	1-999 minutes in increments/decrements of 1 minute for preset operations, 1-99 minutes for descending timer operations				
Memory	10 programs for each operation				
Data operation	N/A	53 kinds of solvent data			
Speed (rpm) setting	Rotation: Control knob Vacuum	adjustment: Key pad			
Safety measures (drive unit)	Circuit breaker, rotor for overload protection, manual adjustment of lift's lower limit, lift-up switch during power outage				
Safety measures (vacuum regulator)	Self-diagnostic functions, main unit / bath synchronized stop at malfunction, error display				
Synchronized control feature	Selection of automatic bath stop or automatic insulation				
Lifting feature	One-touch motorized lift system				
External With Glassware A (mm)	828(W)× 400(D)×727(H) (857(H)when raised)				
dimension* With Glassware B/C (mm)	643(W)× 400(D)×727(H) (857(H	ł)when raised)			
Weight	~15.1kg (excluding the glasswa	re and the water/oil bath)			
Power supply Main unit (50/60Hz)	AC100~240V 1.5A				
*External dimensions (excluding prot	rusions).				

Set Guide RE Main unit 00-240V 100~240V 0 601 0 801 Glassware set A For standard use (diagonal) B For high boiling point (vertical) C For low boiling point (vertical)

Set Selection Chart

		Glass- ware		Bath (10	00-120V)	Bath (200-240V)	
Model	W			Water bath	Oil bath	Water bath	Oil bath
	А	В	С	BM500	BO400	BM510	BO410
RE-601-AW	•			•			
RE-601-AW2	٠					•	
RE-601-AO	•				•		
RE-601-AO2	•						•
RE-601-BW		•		•			
RE-601-BW2		•				•	
RE-601-BO		•			•		
RE-601-BO2		•					•
RE-601-CW			•	•			
RE-601-CW2			•			•	
RE-601-CO			٠		•		
RE-601-CO2			٠				•
RE-801-AW	•			•			
RE-801-AW2	•					•	
RE-801-AO	•				•		
RE-801-AO2	•						•
RE-801-BW		•		•			
RE-801-BW2		•				•	
RE-801-BO		•			•		
RE-801-BO2		•					•
RE-801-CW			•	•			
RE-801-CW2			•			•	
RE-801-CO			•		•		
RE-801-CO2			•				•

Operational Accessories

- Point	
Glassv	ware Set
Product code	Set
255291	Set A (use with cooling water) The Standard glass set where condenser is tilted, 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

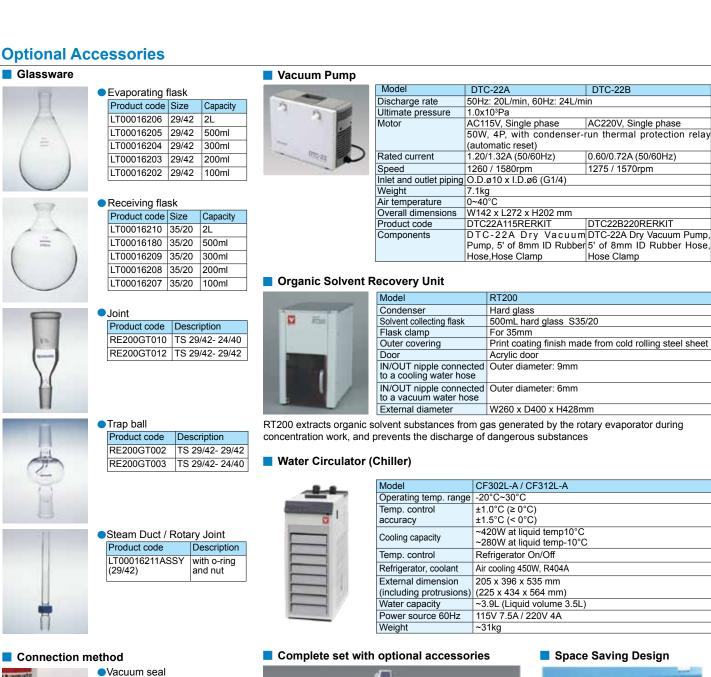
Bath Specifications						
Product name	Wate	er bath	Oil bath			
Model	BM500	BM510	BO400	BO410		
Temp. control range	RT +5°C~90°C		RT +10°C~180°C	2		
Temp. setting range	0~100°C		0~180°C			
Temp. adjustment accuracy	±1.5°C (at agitatio	n)	±2°C (at agitation	ו)		
Temp. control system	PID control with m	nicroprocessor				
Temp. setting / display	Digital setting by A	▲/▼ keys				
system						
Bath capacity	~4L					
External dimensions	W340 x D349 x H	W340 x D349 x H231 mm				
Weight	~5.5kg					
Power supply	AC100~120V	AC200~240V	AC100~120V	AC200~240V		
,	12.5~10.5A	6.5~5.5A	12.5~10.5A	6.5~5.5A		





BM500 The electric kettle style tank can be removed freely







_		
	Product code	Description
	RE50040090 (standard)	Silicone rubber vacuum seal
	ORE7042000	Teflon vacuum seal ORE70
	0	seal ORE70

-		Hose c
6.4		Produc
605		255284
Ph.		255285
land.		

Hose connection parts and trap							
Product code	Description						
	Hose connection parts ORE30						
255285	Trap with nozzle ORE40						



Rotary Evaporator RE601BW Vacuum pump DTC22 Organic solvent recovery unit RT200 Cooling water circulator CF302L-A Stand with caster wheel 255282

Space Saving Design



Compact Rotary Evaporator, which can be neatly installed in a Fume Hood. The vertical condenser does not take up much space

Diaphragm Type Dry Vacuum Pumps

DTC-22A/DTC-22B



Anti-Corrosion Type, DTC Series

Features

- All contacted parts of the gas are made of PTFE and FPM
- Suitable for pumping out corrosive gas or organic solvent
- High vacuum down to 1000Pa
- Compact

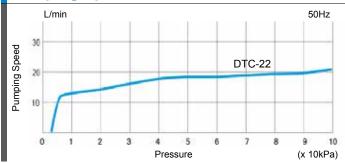
Applications

- Rotary evaporator
- Evaporating system
- Vacuum concentrator
- Vacuum filtration
- Exhaust of gas-transfer tube
- Vacuum drying systems
- Laser-gas circulation
- Centrifuge
- Medical/Pharmaceutical equipment
- Analysis/scientific equipment

Specifications

Model		DTC	-22A	DTC	-22B
	Unit	50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	20		24	
	М³Н	1.2		1.44	
	CFM	0.71		0.85	
·	Pa (kPa)	1.0 × 10 ³ (-100.3)			
	Torr	7.50			
	mbar	10.0			
Motor	AC	115V		220V	
	Single phase, 50W, 4P, Capacitor run				
Noise value	dB(A) 54				
Full load current	A	1.2	1.32	0.6	0.72
Weight kg 7.1					
Inlet port diameter	mm	O.D. dia.10 × I.D. dia.6 (G1/4)			
Ambient emperature	°C	0-40			
	°F	32-104			
Overall dimensions mm 142(W) × 288.5(L) × 202(H)					

Pumping Speed Curves



Vacuum Pump Guide

Assembly No.	Components	Applicable products
	DTC-22A Dry Vacuum Pump 115V 5' of 8mm ID Rubber Hose Hose Clamp	RE-200/210/301/601/80
	DTC-22B Dry Vacuum Pump 220V 5' of 8mm ID Rubber Hose Hose Clamp	Rotary Evaporator

Corresponding Voltage and Certificate

Model	Voltage	CE Marked	TUV Marked	cTUVus Marked
DTC-22A	Single phase, 115V	•	•	•
DTC-22B	Single phase, 220V	•	•	

Outline Drawings

