Related Product

Closed Cooling Water Circulator CF302L

Temperature Range : -20 to 30°C

- Easy to clean intake air filter
- Easy to use new controller
- \circ Stress-free circulating line connection

Cooling Capacity : Approx. 420W at 10°C/ approx. 280W at -10°C

 It is safe for drainage of condensation water



Diaphram Vacuum Pump N820G

Product Code		255161
		N820G
Model		
Pumping spee	d	9 to 20L/min (With manual variable volume)
Wetted materi	al	PTFE/FFPM
External input		Remote operation by external signal
Ultimate pressure	at Min. speed	Gas ballast closed≦600 Pa (Open≦1700 Pa)
	at Max. speed	Gas ballast closed≦800 Pa (Open≦1500 Pa)
Vacuum port	Hose nipple outer diameter	ϕ 10.6mm/ ϕ 9mm (2 stage type)
Standards	Power supply	Single phase 100V to 240V 50/60Hz
	Overall dim.	163(W)×259(D)×220(H)mm
	Weight	8.8kg

Features

Hose nipple size : ϕ 10.6/ ϕ 9 (Two-stage type)

- Manual flow adjustment with variable volume
- Gas ballast system effective for solvent vapor
- Remote operation by external signal











For the development of scientific technologies

Yamato Scientific Co., Ltd.

www.yamato-scientific.com

Exhaust speed : 9 to 20L/min

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Rotary Evaporator RE202 series

RE202BW



RE202BW

Yamato Scientific Co., Ltd.



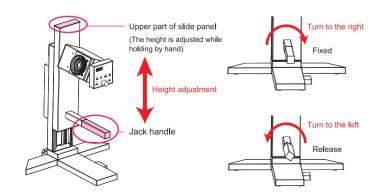
The height adjustment of the body is realized by the jack handle activated by a spring. The spring is adjusted to balance the force with glass and piping connected, and can be raised and lowered with a light force. To fix/release the jack, just twist the handle. A height stroke of up to 200mm is possible, enabling easy to installation and removal of the distillation flask.

The position of the glassware/bath can be installed on either side of the main unit. It can be reversed by rotating the motor box at the back of the operation panel. This way it is possible to use the layout freely according to the limited space inside a fume hood or on a lab bench. Vertical glassware B type can be arranged three in the fume hood.

* When changing the vertical glassware B type, change the orientation of the

condenser holder.

* When releasing the jack handle, be sure to hold the top of the slide panel with your hand for safety.





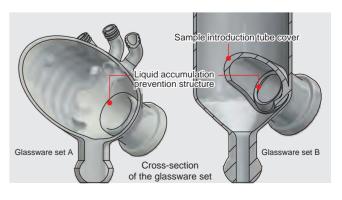
Main unit + Glassware set B The device is operated by the control panel located in the center. Turning the encoder (knob) slowly adjusts the number of revolutions display by one rpm, and turning it fast by ten rpm. The rotational speed can be set within the wide range of 5 to 315 rpm. After confirming the rpm value, press the ► ■ keys to rotate the distillation flask. The rotation mode can be selected from forwards rotation, reverse rotation,

* The current measurement rotational speed, setting rotational speed, parameters, etc. are displayed on the rotational speed display (LED). The speed can be set even during the operation. The brightness of the LED can be adjusted in 8 levels.

at a set interval.







AC adapter is stored neatly

An AC adapter holder is provided on the back of the main unit, and you can store the AC adapter and excess cables in a neat manner. Furthermore, if you use the included back cover to cover the back, it can be placed inside the bench or fume hood with a clean wiring to reduce dust and liquid intrusion.



Two easy-to-care baths

There are two kinds of baths available: water and oil bath (water/oil combined use). They have a capacity of 5L, inner diameter of ϕ 240mm. The flat shape with no heater or sensor inside the bus makes cleaning easy. A bath is equipped with safety functions such as automatic overheat prevention, upper temperature limit abnormality, and independent overheat prevention (temperature fixed type).



A sample introduction tube cover prevents backflow of condensate (Glassware set B)

A sample introduction tube cover is installed in the condenser to prevent the condensate in the condenser from flowing back through the sample introduction tube to the distillation flask. It is shaped to cover the sample introduction tube from the top, realizing an extremely complex structure in which the glass shape to be the cover is mounted inside the condenser.



Space saving model with high cooling capacity

The cooling surface area of approx. 0.143m² for both A and B type condensers enable high cooling capacity for optimal condensation. The dimensions including the condenser B and the bath has been downsized compared to the conventional product in both width and height. Therefore it requires less space and multiple units can be installed in a limited space such as in a fume hood.





hood

Specifications

Set Selection Chart

Composition Items	Model		RE202A-E	RE202AW-E	RE202AO-E	RE202B-E	RE202BW-E	RE202BO-E
		Product cord	255775	255777	255781	255776	255778	255782
Main body	RE202-E	255774	•	•	•	•	•	•
Glassware set A	RG202A-E	255779	•	•	•			
Glassware set B	RG202B-E	255780				•	•	•
Water bath	BM302-E	255387		•			•	
Oil bath	BO302-E	255426			•			•

Specifications (RE202A/B)

Model		RE202A-E	RE202B-E			
Product Code		255774 + 255779	255774 + 255780			
Condenser		Type A (diagonal)	Type B (vertical)			
Glass conde	Glass condenser	Double-wound coil (cooling surface area: approx. 0.143mm ² , with heat insulation) Vacuum seal (FKM, single-sided PTFE finish)	Vertical double-wound coil (coolingsurface area: approx. 0.143mm ² , with heatinsulation) vacuum seal (FKM, single-sided PTFE finish)			
Confirmention	Rotary joint	\$29/38 inner diameter \$\$18mm × L284mm	\$29/38 inner diameter \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			
Configuration	Standard flasks	Evaporative flask (TS29/38, 1L) and clip (POM), receiving flask (S35, 1L), and clamp (SUS)				
	Motor	DC brushless motor				
	Connection nozzle dia.	Outer diameter ϕ 10mm (cooling water/vacuum)				
	Rotation speed range	5 to 315rpm encoder type digital setting and display				
Performance	Jack	Manual balance type (~200mm stepless adjustment, fixed/released by 90°Crotation)				
	Evaporation capacity	Approx. 23 mL/min (water evaporation)				
Safety feature	S	Motor stop function at overload, Over current protection, Over voltage protection				
Other features	5	Automatic reverse switching by forward/reverse/timer, Power failure recovery (mode selection type)				
	Applicable distillation flask	\$29 50 to 2000mL (JIS standard)				
	Applicable receiving flask	100 to 2000mL				
	Power source (50/60Hz)	AC100-115V Single phase, A type (3P)/UL/CSA plug				
Standard	Current	1A				
otandara	External dimensions (W×D×Hmm)	719×324×534 (jack maximum position : H734mm)	529×324×745 (jack maximum position : H945mm)			
	Weight	9kg (Rotary evaporator body: approx. 7kg+glass set: approx. 2kg)				
Accession	RE202	Instruction manual, Warranty card, AC adapter, Pov Velcro (one side and both sides), Condenser holder,				
Accessories	Glasswere	Warranty card, Fask clip, Receiver flask clip, Vacuum seal, Flask pusher, Thermal insulation for condenser				

Specifications (Water Bath/Oil Bath)

Bath type		Water Bath	Oil Bath	
Product Code	Product Code 255387 255426		255426	
Model		BM302-E	BO302-E	
Performance	Temperature range	Room Temp. +10 to 90°C	Room Temp. +10 to 180°C ^{*1}	
Felloimance	Temp. adjustment accuracy	±1.0°C	±1.5°C (water), ±2°C (oil)	
Configuration	Exterior material	PBT (Glass fiber is entered)		
Configuration	Bath internal material	Stainless steel		
Safety features		Automatic overheat prevention, Upper temperature limit abnormality, Independent overheat prevention (fixed temperature type), Power supply cut off by power supply fuse, Sensor disconnection detection		
Other features		Calibration offset, overshoot notification, Power failure recovery function (mode selection type), 2A service outlet		
	Power source (50/60Hz)	AC100-115V 10-12A (Service outlet 2A excluded) (15A)		
Standard Bath internal dimensions and capacity		φ240×119mm/Approx. 5L		
External dimensions *2		ϕ 262 (Up to 286 mm in depth)×H 240mm		
Weight		Approx.4.5kg		
Accessories		Instruction manual, Warranty card, Power cord (approx. 3m), Fuse 15A (large), Fuse 2A (small)		

*1 Please use water by less than 90°C. *2 Do not include protrusions.

Examples of standard systems

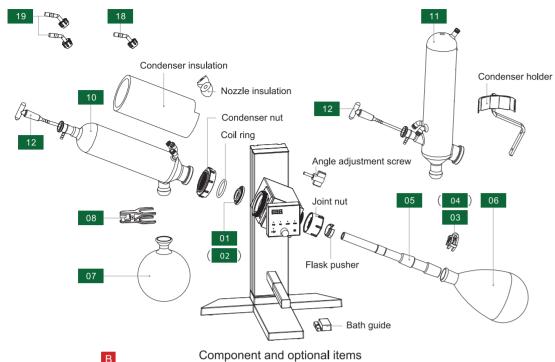
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Product name	Model	Product cord
Rotary evaporator	RE202B-E	255776
Water bath	BM302-E	255387
Externally closed cooling water circulator	CF302L-E	221629
Circulating insulation hose (soft) ID 9mm × OD 13mm × 2m, 2pcs	OCF12	221581
Vacuum hose ID 6mm × OD 15mm × 5m	_	255297
Diaphragm vacuum pump	N820G	255161

Total power supply capacity: about 18.6A

Number of outlets required: 3 (when using a water bath service outlet)



Optional Items



A Glassware set A (standard accessories) B Con Glassware set B (standard accessories)







01 Vacuum seal A B	02 PTFE Vacuum seal		
ORE27 <255740>	ORE29 <255741>		
Material : FKM (Single sided PTFE), 2pcs.	Material : PTFE, Chemical resistant, 1pc.		
03 Clip A B	04 Clip		
ORE41 <255747>	ORE43 <255748>		

Material : POM, \$29, 2pcs.

05 Rotary joints

For	Ground glass joint	Size	Model	Product code	
	Standard	\$29/38 L284mm	ORE72	255720	A
Glassware set A	Standard	\$24/40 L286mm	ORE76	255722	1
(for RG202A)	Transparent	\$29/38 L284mm	ORE82	255724]
		\$24/40 L286mm	ORE86	255726	
Glassware set B (for RG202B)	0	\$29/38 L208mm	ORE74	255721	В
	Standard	\$24/40 L210mm	ORE78	255723	
	T	\$29/38 L208mm	ORE84	255725]
	Transparent	\$24/40 L210mm	ORE88	255727	1

Material : POM, \$24, 2pcs.

06 Evaporatiing flasks

Size	Capacity	Model	Product code		
	100mL	ORE24	255701		
	200mL	ORE26	255702	7	
\$29/38	300mL	ORE28	255703	7	
\$29/38	500mL	ORE32	255704		_
	1000mL	ORE34	255705	Α	1
	2000mL	ORE36	255706	_	7
	100mL	ORE42	255708	7	
	200mL	ORE44	255709	7	
T 04/40	300mL	ORE46	255710	7	
<u>\$</u> 24/40	500mL	ORE48	255711	7	
	1000mL	ORE52	255712	7	
	2000mL	ORE54	255713	7	

07 Receiving flasks

07	ricectiving in	45165				
	Capacity	Model	Product code			
	100mL	ORE56	255714			
	200mL	ORE58	255715			
	300mL	ORE62	255716			
	500mL	ORE64	255717			
	1000mL	ORE66	255718	Α	В	
	2000mL	ORE68	255719			
S35/20 is	JIS standard					



08 Spherical joint clip ORE45 <255749>	AB		One-touch connec <255743>	tor *1
Stainless steel, S35/20 is JIS standard,	1pc.		D 10mm, 2pcs., ating insulation hose (h	ard)
10 Condenser A (diagonal) ORE47 <255750> Includes : Condenser insulation, Conden	11 Condenser B (vertical) B ORE49 <255751> Includes : Condenser insulation, Condenser nut			
and Coil ring			and Coil ring	
12 Sample induction cock (glass) ORE23 <255738> Set of 14 16	_		Sample induction of <255737> Set of 15	
14 Cock (glass) ORE19 <255736>			Cock (PTFE) <255735>	
Material : Glass, \$19/38		Material :	PTFE, \$19/38	
16 Sample induction tube ORE25 <255739>			Three-way cock) <255363>	
Material : PTFE Length 520mm (cut to L345mm for cond	enser B)		switching the receiving solution solutita solutita solutita solutita solutita soluta	
18 Vacuum nozzle (gray) ORG80 <255512>	AB	19 Cooling nozzle (black) A B ORE31<255742>		
GL14, OD 10mm, 2pcs.		OD 10mm, 2pcs.		
20 Reray connector ^{*1} ORE35 <255744>			Nozzle packing <281494>	
OD 10mm, 1pc. for circulation insulation hose (hard)		Silicon, 1	2 pcs., for vacuum/cool	ina nozzle
22 Vacuum hose <255297>		23 Circulating insulation hose (hard) ¹ OCF78 <281475>		
ID 6mm × OD 15mm × 5m, 1pc.		ID 6.5mm × OD 10mm × 2m, (Insulatin outside diameter 22mm) Hard (polyurethane), 2pcs.		
24 Circulating insulation hos OCF12 <221581>	e (soft)		Circulating insulation	on hose (soft)
ID 9mm x OD 13mm x 2m (heat insulation Ol (ethylene propylene), 2pcs., with 4 clamp for cooling water		ID 9mm x OD 14mm x 2m (heat insulation OD 41mm), (silicon), 2pcs., with 4 clamps, for cooling water		
26 Laboratory jack ORE37 <255745>			Laboratory jack <255746>	
150×150mm, Height : 75 to 245mm			mm, Height : 75 to 245r	nm
28 Equal/Different diameter	iointe			
		del	Product code	
Standards (female→male) \$24/40 → \$24/40 L105mm	Mo OR	del E11	255732	
\$24/40 → \$19/38 L103mm		E13	255733	
\$24/40 → \$15/25 L90mm		E15	255734	
\$29/38 → \$29/38 L106mm		E92	255728	
\$29/38 → \$24/40 L108mm		E94	255729	
\$\$29/38 → \$\$15/25 L93mm		E98	255731	
\$29/38 → \$19/38 L106mm	OR	E96	255730	
20 Trap bulbs (Round shape	100ml)		

29	Trap bulbs (Round shape, 100mL)						
St	Standards (female→male) Product code						
\$2	9/42 → \$19/38	L173mm	RE200GT001				
\$2	9/42 → \$29/42	L183mm	RE200GT002				
\$2	9/42 → \$24/40	L173mm	RE200GT003				
\$2	9/42→ ₹15/25	L160mm	RE200GT004				

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 *1 When using a circulation insulation hose (hard), change the cooling nozzle (black) to one-touch connector before use.
 Also, when extending, relay connectors are required.
 20