

12. ROTARY EVAPORATOR & Distillation



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Rotary Evaporator

Rotary Evaporator can heat in constant-temperature and and form film in negative pressure, simultaneously, it will evaporate hydrolytic enzymes to condense receiving.

Specially is suitable for concentration, crystallization, separation, reclamation, etc. It is ideal device from biological pharmaceutical, chemical, food industry, etc.

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- Easy Clamp**
- Using high quality Teflon (PTFE) safe use
 - Easy to assemble and disassemble with one-step sealing clamp

- Auxiliary Condenser
- Valve
- Vacuum Port
- Receiving Flask

- Main Condenser
- Vacuum Gauge

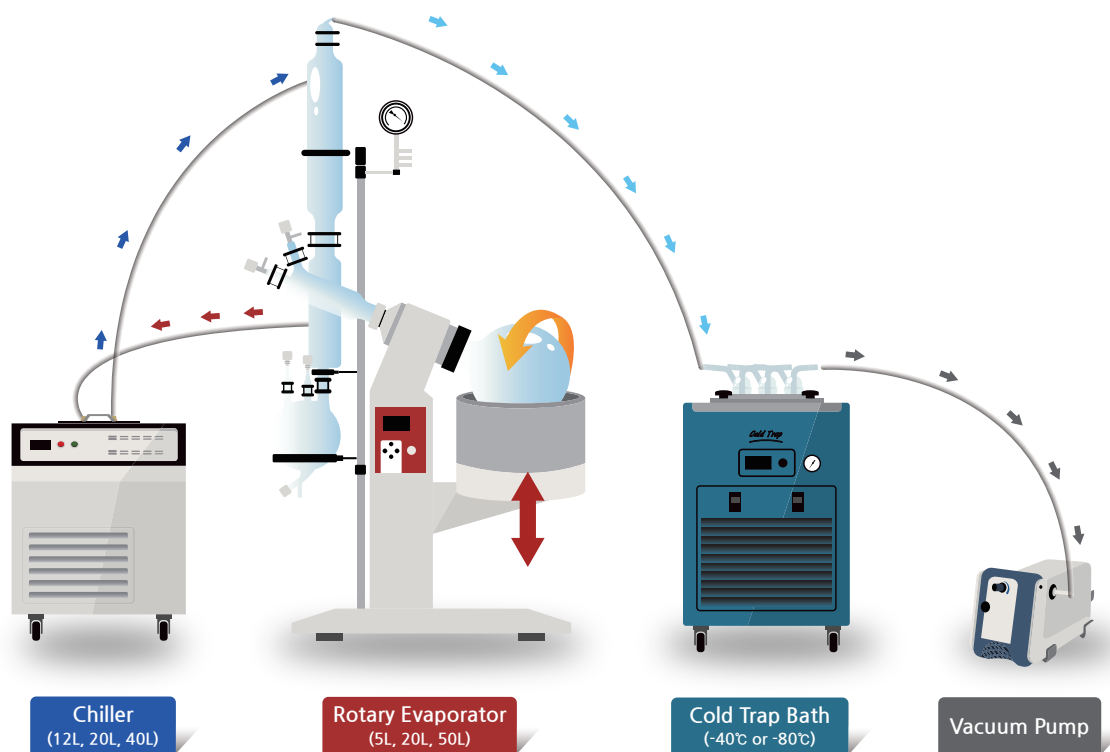
- With BLDC Motor excellent durability and feed back control function

- With motorized lift and stainless steel bath

- Teflon precision machining and O-ring insertion sealing

- LCD Display Controller

- Digital controller with LCD display easy to control and operate through speed
- Backlight function allows operation in dark spaces



Model	SH-RE05L	SH-RE20L	SH-RE50L
Speed-regulation of main machine	LCD Display, variable frequency, stepless speed-regulation		
Rotary speed	10 ~ 140rpm	Max. 120rpm	
Rotating motor	40W	60W	100W
Evaporating capability	Water \geq 2 ; Alchol \geq 4(L/h)	Water \geq 3.8 ; Alchol \geq 7.6(L/h)	Water \geq 9 ; Alchol \geq 19(L/h)
Achievable vacuum	Below 399.9Pa		
Water bath temp. range	Ambient ~ 180°C		
Constant-temp. Resolution	\pm 1°C		
Power supply	Single phase 220V 60Hz		
Heater wattage	3kW	5kW	8kW
Condensing tube type	Standing, main Condenser	Standing, main+ auxiliary cooling and highly efficient 3 circulating cold trap	
Condensing area	main : 0.27m ²	main : 0.8m ² auxiliary : 0.39m ²	main : 0.91m ² auxiliary : 0.52m ²
Rotary bottle	5L	20L	50L
Collecting bottle	3L	10L	20L
Vacuum sealing	Double sealing rings (Teflon) + Viton materials		
Water bath size	ϕ 300 \times 170mm / ϕ 12 \times 7"	ϕ 450 \times 260mm/ ϕ 18 \times 10"	ϕ 550 \times 320mm / ϕ 21 \times 13"
Water bath material	Stainless water bath		
Water bath volume	12L	41L	77L
Environment temperature	5 ~ 35°C		

Rotary Evaporator Package

142



<RE-PK-5L, 20L>



<RE-PK-50L>

Package Model	RE-PK-5L	RE-PK-20L	RE-PK-50L
Rotary Evaporator	SH-RE-5L	SH-RE-20L	SH-RE-50L
Cold Trap Bath	SH-WB-5GDR(-40°C or -80°C)	SH-WB-5GDR(-40°C or -80°C)	SH-WB-5GDR(-40°C or -80°C)
Vacuum Pump	2044		2047
Chiller	SH-WB-12CDR	SH-WB-20CDR	SH-WB-40CDR



-40°C

Chiller



Vacuum Pump



-40°C For Water

-80°C For Solvent

Cold Trap Bath

Model	Bath Capacity
SH-WB-12CDR	12.5 L(-40°C)
SH-WB-20CDR	20 L(-40°C)
SH-WB-40CDR	40 L(-40°C)

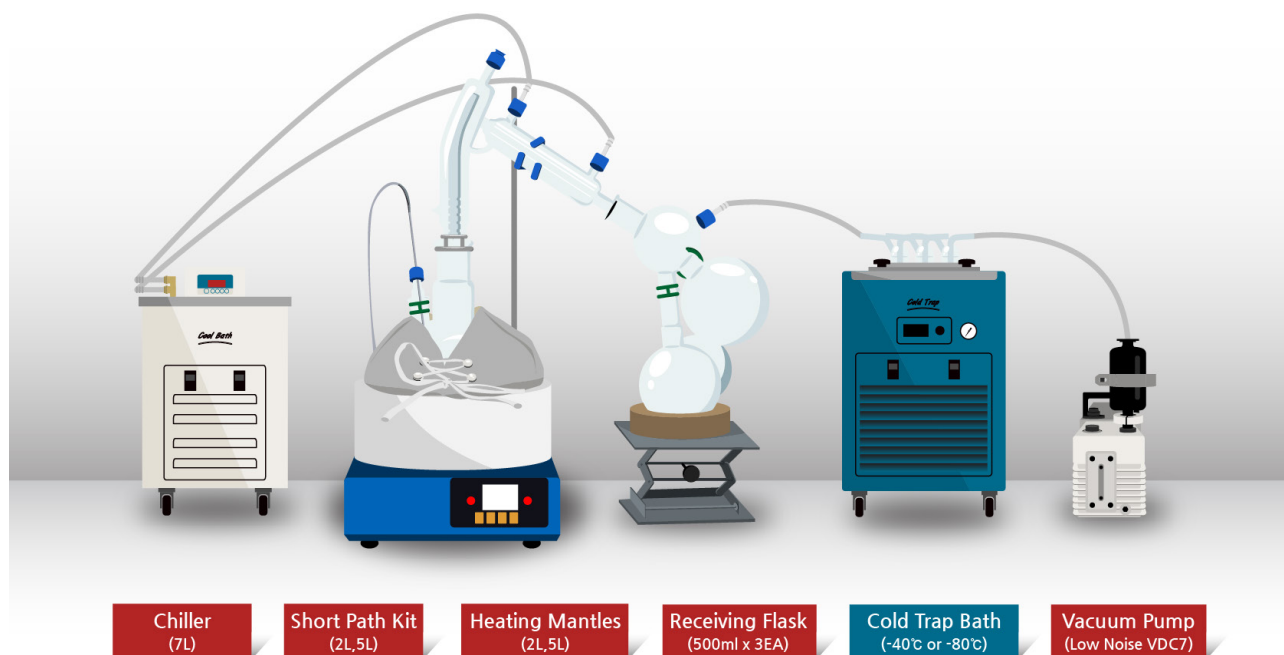
Model	Pump Speed
2044	35 L/min
2047	70 L/min

Model	Temp Range
SH-WB-5GDR(-40)	-40°C(-40°F) ~ -20°C(-4°F)
SH-WB-5GDR(-80)	-80°C(-112°F) ~ -60°C(-76°F)

Short Path Full Kit With Cold Trap

Short path distillation evaporates and condenses the compound one time.

One the compound evaporates, it travels a very short distance and then condense and return to their lower energy state.



2L Short Path Part List	
Qty	Item
1	"2L 60° Distillation Head - 3 Straight Vigreux Rows - GL Fittings 24/40 Bottom, 24/40 Outlet, 14/20 Top - No Vacuum Port"
1	2L 2 Neck Boiling Flask - 24/40
1	250mL Triple Cow Receiver - 24/40 - GL Fitting
3	250mL 1 Neck Round Bottom Flask - 24/40
1	24/40 Glass Funnel
1	24/40 Thermometer Adapter
1	14/20 Thermometer Adapter
2	24/40 Stopper
1	14/20 Stopper
3	GL-14 Connections - 8mm 3/8"
5	24/40 Plastic Keck Clamp
2	24/40 Stainless Steel Keck Clamp
1	50mL - 250mL Cork Stand
1	250mL - 1000mL Cork Stand
1	4" x 6" x 27" Lab Stand for holding Distillation Head
1	Boss Head Clamp
1	3-Finger Adjustable Clamp

5L Short Path Kit List	
Qty	Item
1	"5L 60° Distillation Head - 5 Straight Vigreux Rows - GL Fittings 34/45 Bottom, 24/40 Outlet, 14/20 Top - No Vacuum Port"
1	5L 2 Neck Boiling Flask - 24/40
1	250mL Triple Cow Receiver - 24/40 - GL Fitting
3	500mL 1 Neck Round Bottom Flask - 24/40
1	24/40 Glass Funnel
1	24/40 Thermometer Adapter
1	14/20 Thermometer Adapter
2	24/40 Stopper
1	14/20 Stopper
3	GL-14 Connections - 8mm 3/8"
5	24/40 Plastic Keck Clamp
2	24/40 Stainless Steel Keck Clamp
1	34/45 Stainless Steel Keck Clamp
2	250mL - 1000mL Cork Stand
1	6" x 10" x 27" Lab Stand for Head
1	Boss Head Clamp
1	3-Finger Adjustable Clamp