

ROTARY EVAPORATOR

ROTARY EVAPORATOR suitable for intermediate grade users.

The lowest price with complete functions.

Press the main switch and control the speed



◇ The size and weight of the product may be changed for quality improvement purpose.

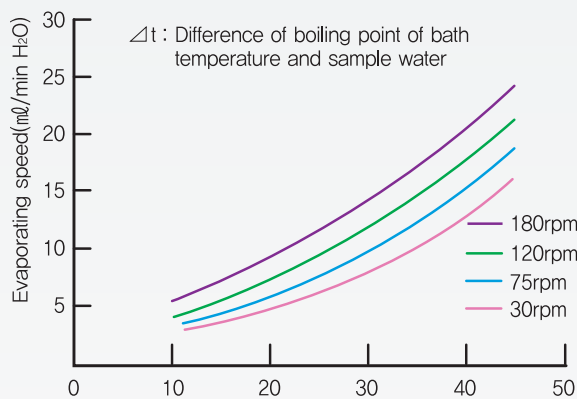
Based on the accumulated technologies for the last 30 years, we have strived for quality improvement and development of scientific research equipment. Finally, HAHNVAPOR is the answer to our effort. HAHNSHIN will work harder to make the best product for our customers around the world.

Advantages

- Easy and accurate height control by using a simple up/down button.
- Our special vacuum seal is made of double-binding Teflon and NBR nitrile in order to provide the seal with anti-abrasion, anti-aging and anti-chemical functionality, which enables the machine to make higher vacuum pressure compared to most of other imported equipment.
- The leaning angle of the evaporating flask can be easily manipulated by screwing a simple bolt type controller.
- Combi-Clip can easily remove or attach the evaporating flask.
- The insulated heater prevents the machine from burning accident or heat loss.
- Water bath is made of stainless steel to prevent it from undesirable corrosion of the bath.

Conditions for distillation

- Set the water temperature in water bath at 60°C.
- Set the cooling water speed at 40~60ℓ/h
- Inject the cooling water (15°C~25°C) into the condenser coil.
- Set the vacuum degree at 700mmHg or above.



◇ Condition:

Temperature of cooling water is set on level which is 10~20°C lower than boiling point of sample water.

Condition of Evaporating Capacity

- Temp. of cooling water : 25°C~27°C
- Sample Flask : 1ℓ
- Sample Input : 500mℓ
- Vacuum pressure: 760mmHg
- 6 types of flasks ranging from 50mℓ to 3000mℓ
- HAHNVAPOR is equipped with speed control, and R.P.M value is displayed in digital.
- Digital Water Bath covers ambient temperature up to 180°C
- If water level at heating bath goes down, power will be cut off automatically by sensor.
- Speed control 20~280 R.P.M

ROTARY EVAPORATOR

HS-2005S-N(CE)/HS-2005V-N(CE)

DISTINGUISHED FEATURES

- 6 different types of flasks are attachable(from 50mℓ to 3000mℓ)
- Digital speed control
- Digital R.P.M Display/Speed control range : 20~280 R.P.M
- HS-2005S-N(CE) Slant type condenser, HS-2005V-N(CE) Vertical type condenser
- Digital interior temperature measure and display
(It catches the temperature changes caused by the interior pressure drops)
- Motorized UP- DOWN control switch
- Easy to utilize standard distillation solution



HS-2005S-N(CE)

REGISTRATION
No.
20-0461039
30-0668181

INCLUDED WATER BATH HS-3001(PTFE coating)

If the amount of water goes down under the certain threshold in the heating bath, the system automatically turns off its power for the safety purpose

Heater	1000 W
Bath Material	SUS 304
Weight	2.8 kg
Bath Dimension (∅ × H)	245 × 120 mm (Capacity : 4.3 Liters)
Required Power Source	AC 220 V 50 / 60 Hz 3.5 A
Temp. Control range	Amb. ~ 180 °C
Temp. Setting / Display	Digital control (controlled by the main controller)

◇ Double jacketed bath body (Safe to touch)



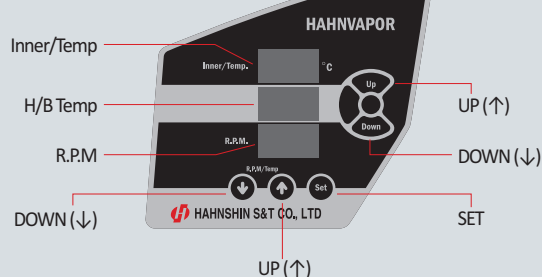
HS-2005V-N(CE)

REGISTRATION
No.
20-0461039
30-0668181

SPECIFICATIONS

MODEL	HS-2005S-N(CE)	HS-2005V-N(CE)
Dimension (W × D × H)	730 × 410 × 630 mm	620 × 410 × 870 mm
Weight	19.5 kg	
Power source	AC 220 V 50 / 60 Hz 2.5 A	

OPERATING PANEL



ROTARY EVAPORATOR

HS-2005S(CE)/HS-2005V(CE)/HS-5SP



HS-2005S(CE)

REGISTRATION
No.
20-0461039
30-0668181

DISTINGUISHED FEATURES

- 6 different types of flasks are attachable(from 50mℓ to 3000mℓ)
- Flask for HS-5SP : Evaporating flask 5000mℓ, Receiving flask 3000mℓ
- Digital speed control
- Digital R.P.M Display/Speed control range : 20~280 R.P.M
- HS-2005S(CE) Slant type condenser, HS-2005V(CE)/HS-5SP Vertical type condenser
- Digital interior temperature measure and display
(It catches the temperature changes caused by the interior pressure drops)
- Motorized UP- DOWN control switch
- Easy to utilize standard distillation solution
- Auto timer function
- Autonomous condenser lifting function after a complete shut down of the machine

INCLUDED WATER BATH HS-3001(PTFE coating)

If the amount of water goes down under the certain threshold in the heating bath, the system automatically turns off its power for the safety purpose

	For HS-2005V/HS-2005S	For HS-5SP
Heater	1000 W	2200 W
Bath Material	SUS 304	SUS 304
Weight	2.8 kg	3.5 kg
Bath Dimension (Ø × H)	245 × 120 mm (Capacity : 4.3 L)	300 × 150 mm (Capacity 8 L)
Required Power Source	AC 220 V 50 / 60 Hz 3.5 A	
Temp. Control range	Amb. ~ 180 °C	
Temp. Setting / Display	Digital control (controlled by the main controller)	

◇ Double jacketed bath body (Safe to touch)



HS-2005V(CE)

REGISTRATION
No.
20-0461039
30-0668181

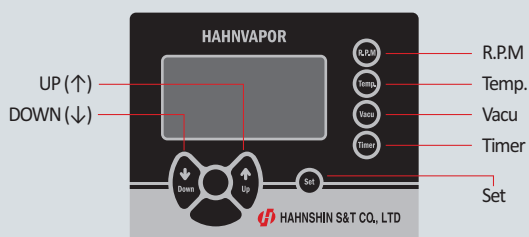
INCLUDED VACUUM CONTROLLER

Vacuum range : 0~760mmHg

SPECIFICATIONS

MODEL	HS-2005S(CE)	HS-2005V(CE)	HS-5SP
Dimension (W × D × H)	720 × 340 × 510 mm	610 × 340 × 730 mm	400 × 400 × 800 mm
Weight	20 kg	21 kg	26 kg
Power source	AC 220 V 50 / 60 Hz 2.5 A		

OPERATING PANEL



ROTARY EVAPORATOR

HS-2000NS/HS-2001NS

DISTINGUISHED FEATURES

- 6 different types of flasks are attachable(from 50mℓ to 3000mℓ)
- Digital speed control
- Digital R.P.M Display/Speed control range : 20~280 R.P.M
- HS-2000NS Slant type condenser, HS-2001NS Vertical type condenser
- Digital interior temperature measure and display
(It catches the temperature changes caused by the interior pressure drops)
- Motorized UP- DOWN control switch
- Easy to utilize standard distillation solution



HS-2000NS

REGISTRATION
No.
20-0461039
30-0668181



HS-2001NS

REGISTRATION
No.
20-0461039
30-0668181

INCLUDED WATER BATH HS-3001(PTFE coating)

If the amount of water goes down under the certain threshold in the heating bath, the system automatically turns off its power for the safety purpose

Heater	1000 W
Bath Material	SUS 304
Weight	2.8 kg
Bath Dimension (Ø × H)	245 × 120 mm (Capacity : 4.3 Liters)
Required Power Source	AC 220 V 50 / 60 Hz 3.5 A
Temp. Control range	Amb. ~ 180 °C
Temp. Setting / Display	Digital control (controlled by the main controller)

◇ Double jacketed bath body (Safe to touch)

SPECIFICATIONS

MODEL	HS-2000NS	HS-2001NS
Dimension (W × D × H)	320 × 730 × 520 mm	320 × 580 × 720 mm
Weight	16 kg	17 kg
Power source	AC 220 V 50 / 60 Hz 2.5 A	

OPERATING PANEL



HS-20SP/HS-10SP



HS-20SP/HS-10SP

HAHNVAPOR HS-20SP/10SP

is specially designed for distilling a large capacity of material, which is recommended to use 20ℓ/10ℓ flask. Depend upon the material kinds or the user's choice, one can install a cold trap additionally.

DISTINGUISHED FEATURES

- Visual display can indicate important status of the machine such as rotating speed, bath temperature, vapor temperature, etc.
- Excellent durability of the body and the vapor contacting area.
- Borosilicate glass
- PTFE sealing method is adopted for glass contacted area
- Large diameter(82mm) of evaporating flask enables users to easily wash and remove viscous materials in the flask.
- Up-down control switch.
- Weight and size of the machine could be slightly changed from the above specification in order to optimize the performance of the machine

SPECIFICATIONS

MODEL	HS-20SP/HS-10SP
Dimension (W x D x H)	1,000 x 550 x 1,900 mm
Weight	78 kg
Power consumption	3500 W (This capacity can be increased on customer's requests)
Motor drive	Equipped with both motor and fan
Rotation speed	10 - 180 rpm
FND Display	Display can indicate the bath temperature, rotation speed, rotation amount, etc.
Bath temperature	95 °C
Condenser	three fold coil (multiflux type)
Evaporating flask	20 Liters / 10 SP - 10 Liters
Receiving flask	10 Liters / 10 SP - 5 Liters
Final vacuum pressure	710 ~ 760 mm Hg



HAHNVAPOR duct $\text{ㄷ}24/40$ or $\text{ㄷ}29/32$

$\varnothing = 312$ mm Model (S)	HS - 0100 PTFE Design patent registered
$\varnothing = 200$ mm Model (V)	HS - 0150 PTFE Design patent registered



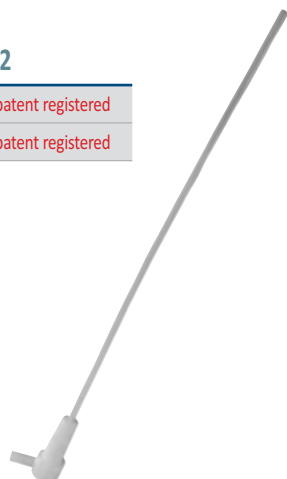
BULBS for FLASK $\text{ㄷ}24/40$

100 mL Model	HS - 0200	250 mL Model	HS - 0201
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FOUR BULBS for FLASK $\text{ㄷ}24/40$ 14/20

Model	HS - 0300	$\varnothing = 450$ mm / 590 mm Model	HS - 0400
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STOP COCK $\text{ㄷ}19/38$



CONNECTING ADAPTERS

(上) $\text{ㄷ}24/40$ (下) $\text{ㄷ}14/20$ Or (上) $\text{ㄷ}24/40$ (下) $\text{ㄷ}24/40$	
Model	HS - 0500



EVAPORATING FLASK ($\text{ㄷ}24/40$)

Capacity 50 mL Model	HS - 0605	1 ℓ Model	HS - 0700
100 mL Model	HS - 0610	2 ℓ Model	HS - 0800
250 mL Model	HS - 0625	3 ℓ Model	HS - 0900
500 mL Model	HS - 0650		



RECEIVING FLASK ($\text{ㄷ}35/20$)

Capacity 100 mL Model	HS - 0930	1 ℓ Model	HS - 0960
250 mL Model	HS - 0940	2 ℓ Model	HS - 0970
500 mL Model	HS - 0950	3 ℓ Model	HS - 0980

Rotary Evaporator Glass Assembly



HS-0510

Evaporator Condenser - A



HS-0511

Evaporator Condenser - B



HS-0512

Evaporator Condenser - C



HS-0170

Vacuum Seal



HS-0171

Receiving Flask Ball Clamp



HS-0172

Joint clamp



HS-0173

Adapter

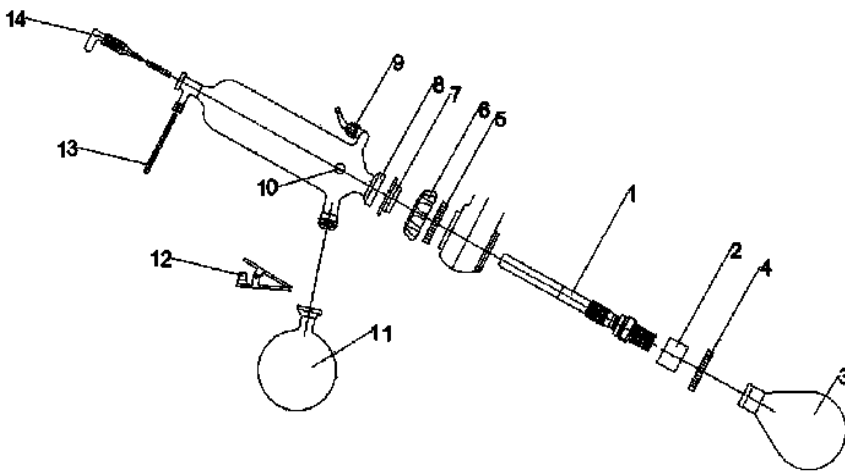


VACUUM GAUGE



COOLING COIL (Copper)

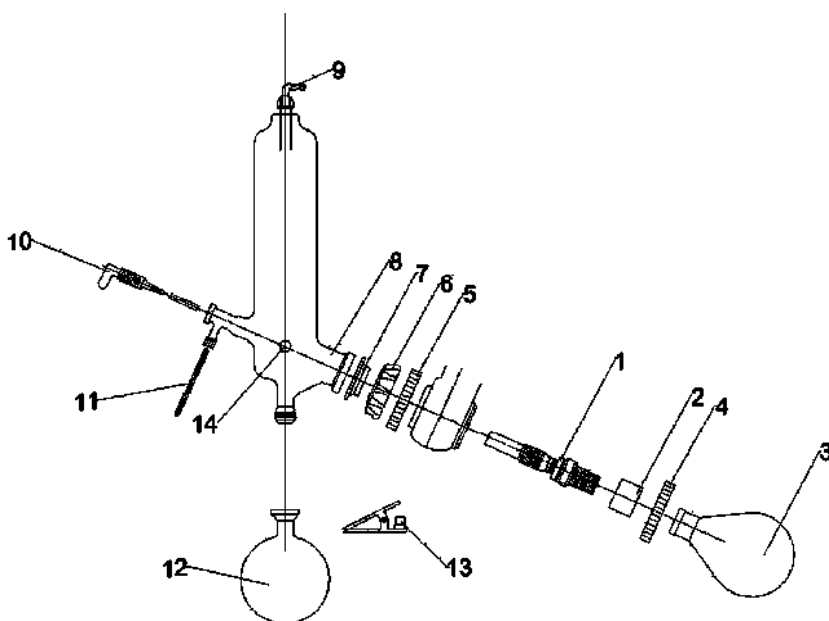
Glass Assembly HS-2005S-N, HS-2005S, HS-2000NS



1. Hahn vapor duct
2. Duct screw cap
3. Evaporating flask
4. Joint clamp
5. Condenser holder spring
6. Condenser screw coupling
7. Vacuum seal
8. Assembly condenser
9. Vacuum connector
10. Vapor sensor
11. Receiving flask
12. Receiving flask clamp
13. Drawing Teflon hose
14. Vacuum stop-cock

◇ Follow the numerical order above to Assemble the item

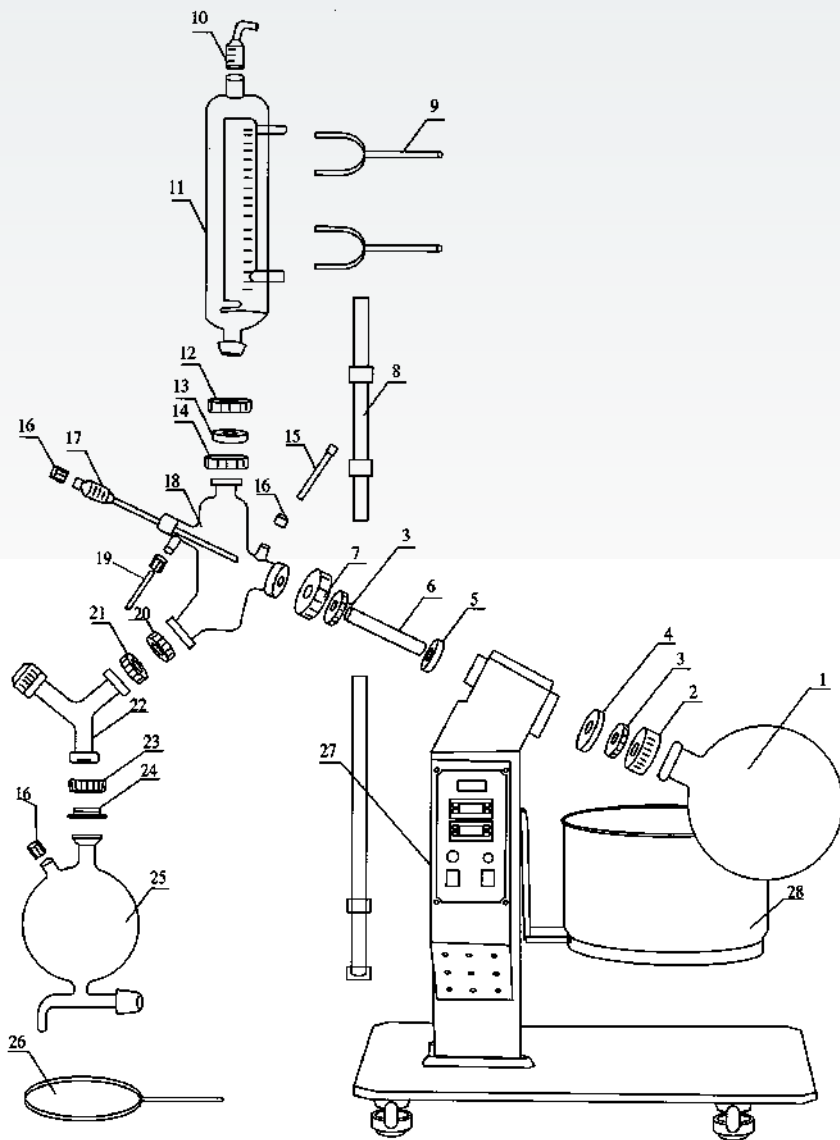
Glass Assembly HS-2005V-N, HS-2005V, HS-2001NS



1. Hahn vapor duct
2. Duct screw cap
3. Evaporating flask
4. Joint clamp
5. Condenser holder spring
6. Condenser screw coupling
7. Vacuum seal
8. Assembly condenser
9. Vacuum connector
10. Vacuum stop-cock
11. Drawing Teflon hose
12. Receiving flask
13. Receiving flask clamp
14. Vapor sensor

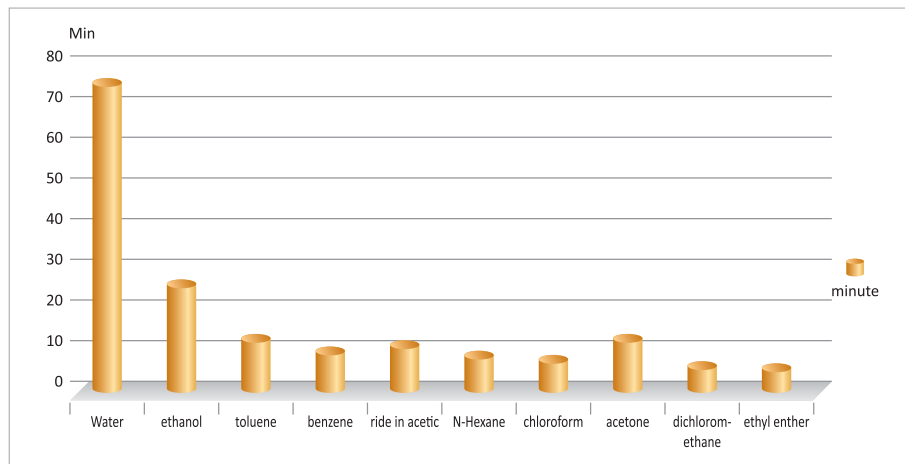
◇ Follow the numerical order above to Assemble the item

Rotary Evaporator HS-20SP, HS-10SP



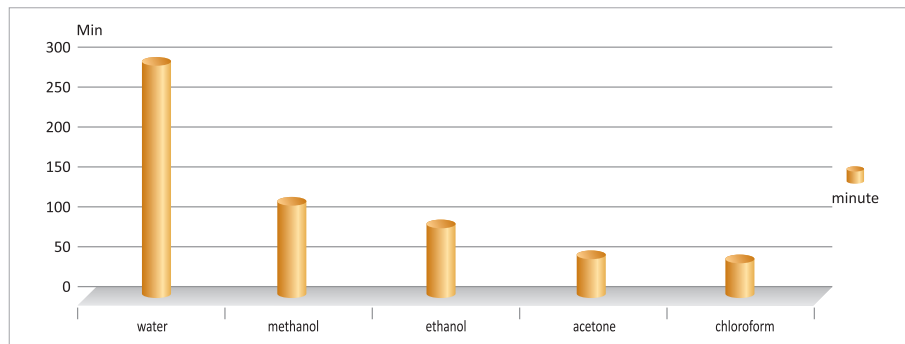
1. Evaporating Flask
2. Flange Screw Coupling
3. Holder Spring
4. Vacuum Gasket
5. Vacuum Seal
6. Vapor Duct
7. Flange Screw Coupling
8. Pipe Stand
9. Condenser Clamp
10. Vacuum Connector
11. Glass Assembly Condenser
12. Condenser Screw Clamp
13. Holder Spring
14. Condenser Screw Clamp
15. Thermometer Sensor
16. Screw Cap
17. Glass Stop - Cock
18. Cold Trap
19. PTFE Plug
20. Screw Coupling
21. Screw Coupling
22. Receiver Cock Adapter
23. Screw Coupling
24. Screw Coupling
25. Receiving Flask
26. O Ring Clamp
27. Controller
28. Water Bath

1L



Cooler temperature 4~5°C, Set Bath temperature 40°C, Sample evaporation time of about 500 g in sample flask 1ℓ

2L



Cooler temperature 5~10°C, Set Bath temperature 40°C, Sample evaporation time of about 10ℓ in sample flask

A recommended machine state in order to get above experiment data

Bath temperature	40 °C	Recommended Temperature	20 ~ 24 °C
Cooler temperature	5 °C	Average collection rate %	99.5 %
Rotation speed	100 rpm		

Recommended usage

- Solution that weak to high temperature such as food, medicine, herb medicine, etc
- Natural materials that used for making healthy foods
- Scent or core component extracted from natural materials
- Receiving solution of melted noble metals, or concentrating the solution of noble metals
- Recrystallizing of solution by enrichment

●
ROTARY EVAPORATOR

●
COLD TRAP BATH

●
COOLING WATER CIRCULATOR

●
VACUUM System for the Chemical Laboratory

●
DIAPHRAGM VACUUM PUMP

●
VACUUM CONTROLLER

●
ELECTRIC ASPIRATOR

●
ICE MAKER

●
VORTEX MIXER

●
FORCED CONVECTION DRYING OVEN

●
MUFFLE FURNACE

●
AUTOCLAVE

●
SHAKER

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