

**LAB1ST**

# Stainless Steel Wiped Film Evaporator

/ LAB1ST Scientific Instruments



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/ Laboratory and Processing Equipment

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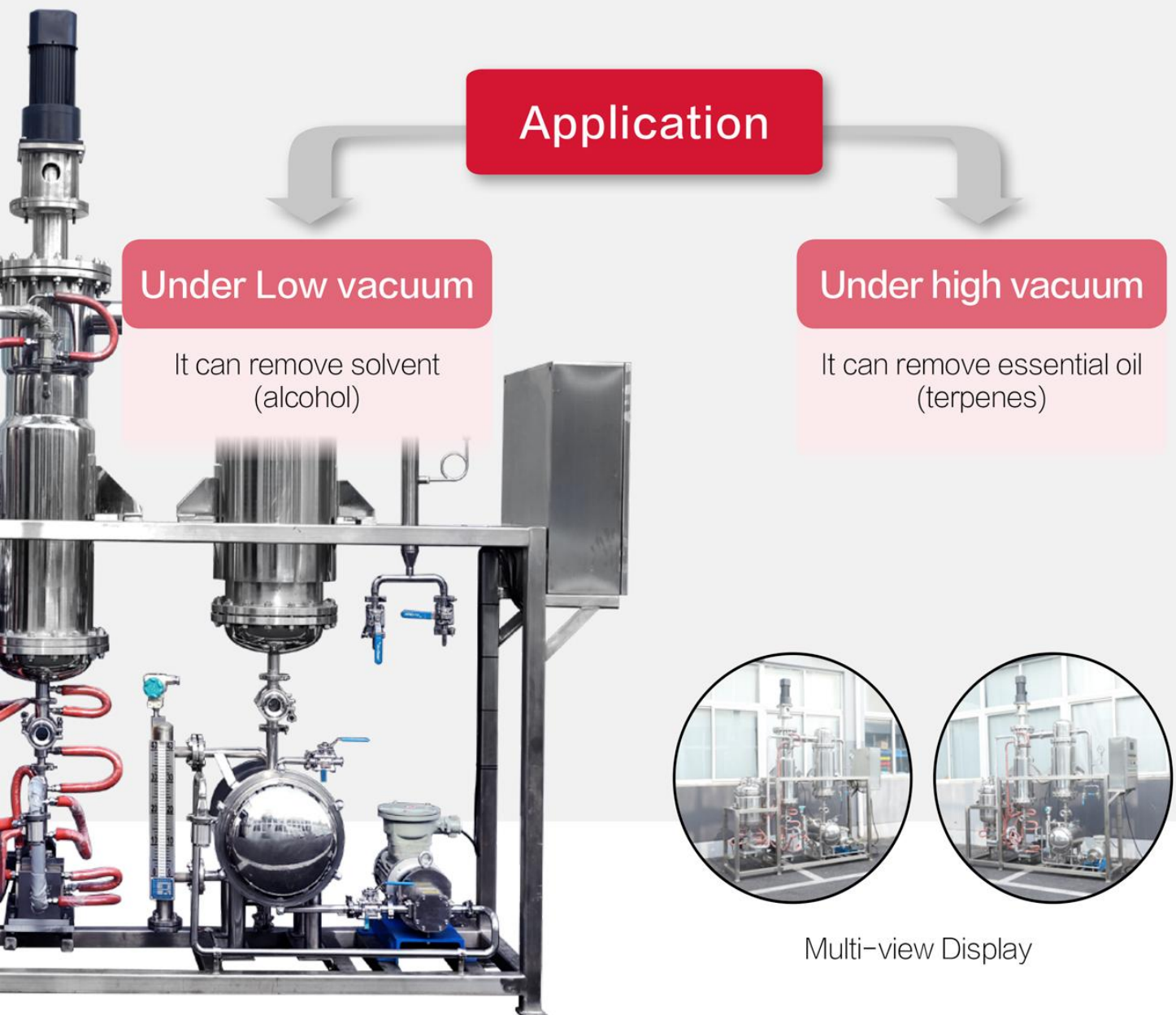
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## Stainless Steel Wiped Film Evaporator

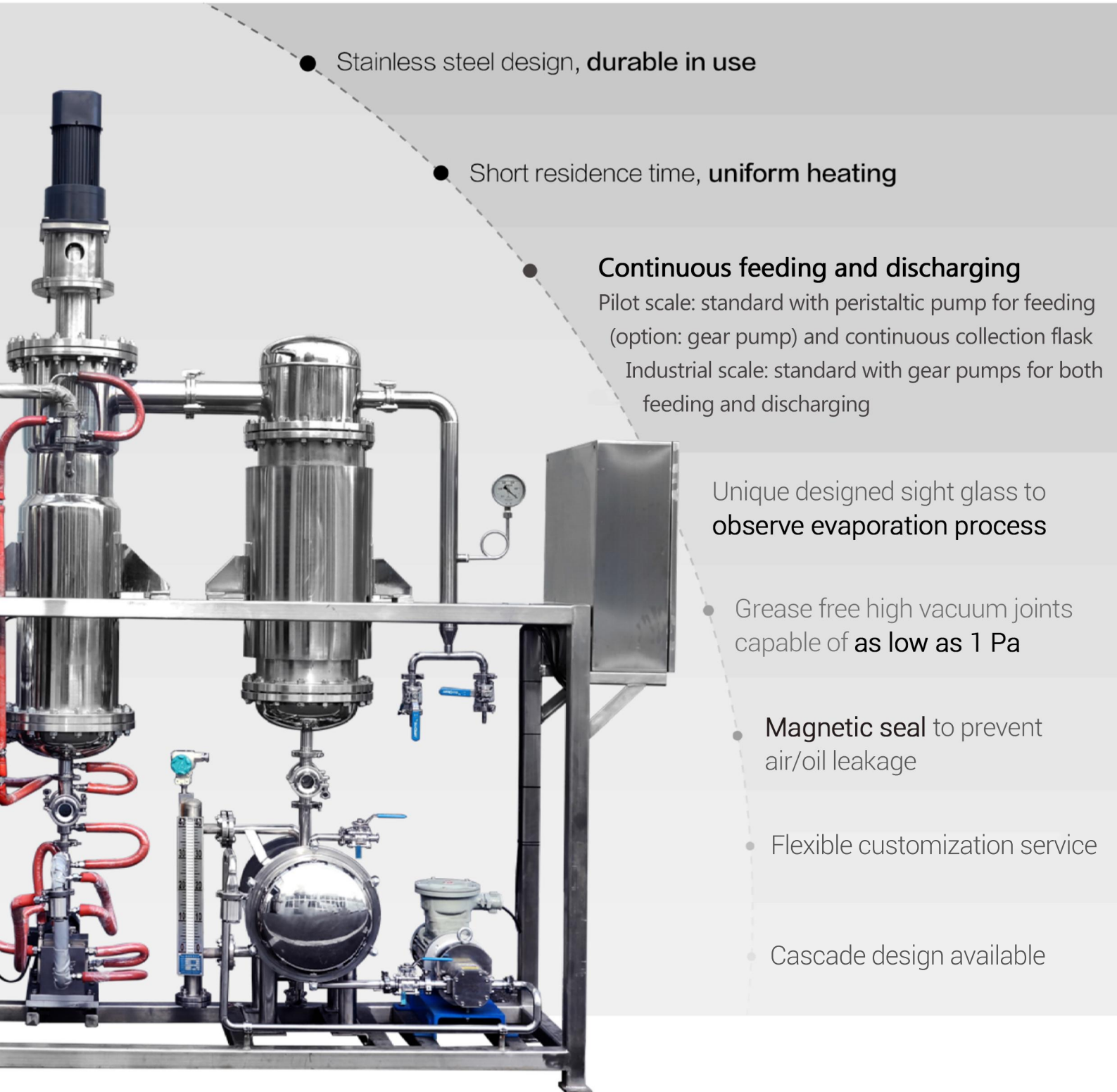
Wiped film evaporator is widely used for concentration, distilling, stripping, dehydration and deodorisation of products which are heat sensitive or viscous.

Stainless steel wiped film evaporators is made of 316L stainless steel that is more durable and more effective. This unit is designed with sight glasses to help observe the working process.

Moreover, it also equipped with heating/cooling circulators and vacuum pumps to make its function perfect.



## FEATURES



- Stainless steel design, **durable in use**

- Short residence time, **uniform heating**

- **Continuous feeding and discharging**

Pilot scale: standard with peristaltic pump for feeding (option: gear pump) and continuous collection flask  
Industrial scale: standard with gear pumps for both feeding and discharging

- Unique designed sight glass to **observe evaporation process**

- Grease free high vacuum joints capable of **as low as 1 Pa**

- **Magnetic seal** to prevent air/oil leakage

- Flexible customization service

- Cascade design available

# TECHNICAL DATA

## Pilot Scale

Model	SWF-01	SWF-02	SWF-03	SWF-05
<b>Technical Data</b>				
Ethanol Evaporation Rate [L/h]	5	10	15	25
<b>Feeding Tank</b>				
Volume [L]	15	20	30	50
Feeding Pump	Peristaltic pump [option: gear pump]			
Feeding Speed [L/h]	3~15	3~20	5~30	10~50
<b>Evaporator</b>				
Film Forming Type	Wiped Film	Wiped Film   Rolled Film		
Material	SUS316L	SUS316L	SUS316L	SUS316L
Evaporation Area [m <sup>2</sup> ]	0.1	0.2	0.3	0.5
Seal Type	Magnetic Seal			
Agitation Motor [Kw]	0.37	0.37	0.75	1.5
Motor Type	Frequency Control			
<b>Heavy Component Collection</b>				
Type	Stainless Steel   Glass Flask	Jacketed Stainless Steel Tank		
Collection Flask Volume [L]	10   5	20	20	50
<b>Light Component Collection</b>				
Type	Stainless Steel   Glass	Stainless Steel Single Layer Tank		
Collection Flask Volume [L]	10   5	20	20	50
<b>Weight   Dimension</b>				
Unit Weight [Kg]	300	360	400	800
Unit Dimension [mm]	1900×900×2200	2500×900×2900	2500×900×2900	2400×650×3900

# TECHNICAL DATA

## Industrial Scale

Model	SWF-10	SWF-20	SWF-30	SWF-60
<b>Technical Data</b>				
Ethanol Evaporation Rate [L/h]	100	200	300	600
<b>Feeding Tank</b>				
Gear Pump Power [W]	750	750	750	1500
Feeding Speed [L/h]	30~150	80~260	100~350	200~600
<b>Pre-heater</b>				
Type	Tube type heat exchanger			
Heat Exchange Area [m <sup>2</sup> ]	1.5	2	3	3
<b>Evaporator</b>				
Film Forming Type	Wiped Film   Rolled Film			
Material	SUS316L			
Evaporation Area [m <sup>2</sup> ]	1	2	3	6
Seal Type	Magnetic Seal	Magnetic Seal	Magnetic Seal	Mechanical seal
Agitation Motor [Kw]	1.5	3	4	5.5
Motor Type	Frequency Control			
<b>Collection</b>				
Buffer Tank Volume [L]	50   50	50   50	50   50	100   100
Discharge Pump	Gear Pump			
Power [W]	750	750	750	1500
Discharging Speed [L/h]	30~150	80~260	100~350	200~600
<b>Weight   Dimension</b>				
Unit Weight [Kg]	2400	2900	3400	6000
Unit Dimension [mm]	3600×850×5000	3600×850×5500	3850×1100×5300	4800×1300×7000



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