

Scraped Film Evaporator

The **thin film evaporator** is a new highly effective evaporator blows the film installment through tube in vivo revolving to cause the material continuously evenly to force the membrane in the heating surface, carries on under the high vacuum condition falls. It has many advantages, such as low distillation temperature, high distillation vacuum degree, short heating time, high separation degree, and so on.

Application:

The thin film evaporator is used to **evaporate, condense, decolor, trip, react, degas, deodorant the materials with high heating-sensitive and easy to oxidate**. It is an excellent method for gently thermal treatment of heat sensitive, high boiling products. At present, there are hundreds of products used in thin film evaporator. The thin film evaporator is widely used in medical, pesticide, oil and fatty chemical industry, fine chemical industry, commodity chemical industry, biology chemical industry and so on.

Performance character:

1. Small pressure losing.
2. Big diathermanous coefficient, high evaporating efficiency.
3. Low evaporating temperature.
4. Short heating time.
5. Strong adaptability, easy to operate.

Technical specification:

Model	Diameter (mm)	Surface (m ²)	Processing measures (kg/h)
PWF70-4	70	0.04	0.1-2
PWF70-7	70	0.07	0.2-3
PWF125-17	125	0.17	0.5-6
PWF200-45	200	0.45	0.7-8
PWF300-75	300	0.75	1.0-11



Unique customization is supported by TOPTION strong specialist team who have more than ten years technical experience.

Rotary Evaporator

Scraped Film Evaporator /
Short Path (Molecular)
Distillation System

Chemical Glass
Reactor

High Shear Homogen-
ous Emulsification
Reactor

Pilot Ultrasonic
Emulsification Reactor

Vacuum Filter / Glass
Liquid Separator

Photochemical
Glass Reactor

Hydrothermal
Synthesis Reactor

High Pressure
Reactor



Scraped Film Evaporator Configuration:

Part Name	Unit	Quantity	Note
Jacketed type main reaction evaporator	set	1	Standard
Digital frequency conversion control stirring device	set	1	Standard
250ML quantitative feeding containers	set	1	Standard
Multiple glass condenser	set	1	Standard
Vacuum protect cold trap	pcs	1	Standard
Scraped panel type scraped film system	set	1	Standard
Material discharge collection system	set	1	Standard
Stainless steel workbench	set	1	Standard
Tube luca pieces	set	1	Standard
Quantitate charge pump	set	1	Standard
Vacuum system	set	1	optional
High temperature heating circulator (room temp to 180 °C)	Set	1	Optional, jacketed reactor heating
Low temperature cooling circulator (room temp to -20°C)	Set	1	Optional, condenser cooling
Secondary circulation device	Set	1	Optional
Digital thermometer	set	1	Optional, tube temperature could be measured
Digital vacuum gauge	set	1	optional
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