

Kurzweg Verdampfer

Short Path Evaporator



طراحی ساخت راه اندازی اواپراتور

Thin Film Short Path Wiped Film

> MTSP TECH

We live process engineering and special manufacturing

اواپراتور فیلم نازک - تکنولوژی MTSP :

ابزاریست برای تبخیر یا تغلیظ کردن مایع با نقطه جوش های متفاوت به کار میرود. این ماشین جز ماشین آلات پیشرفته و پر کاربرد در صنایع مختلف از جمله صنایع شیمیایی ، غذایی و دارویی و ... است.

اُواپراُتُـور Short Path مـا مخصـوص تولیـد مـواد بـا خلـوص بـالا و تولیـد مـواد بسـیار حسـاس بـه حـرارت و ترکیبات با وزن مولکولی بالا مناسب است.

استاندارد طراحی روز دنیا , قابل رقابت با برندهای درجه یک اروپایی و آمریکایی

-پشتیبانی پس از فروش ۱۰ساله ، تامین لوازم مصرفی، اَموزش ، تجربه ۱۰ سال کار با ماشین تین فیلم اواپراتور

سفارشی سازی براساس نیاز مشتری - جنس ۲۰۲, ۳۱٦, ...

- رکودردار با ترین می ا سا ت ، تامین ، راه اندازی ماشین تین فیلم اواپراتور در صنعت تصفیه روغن کارکرده (۲۰ماشین)

Prouduct Application For The Wiped Film Evaporator

The WFE is ideally suited to process hard-to-handle, heat-sensitive and viscous materials. These are just some of the many and varied products that are processed by WFEs.



Chemicals

Acid chlorides, amino-acid, bisphenol, caprolactam, chlorinated hydrocarbons, cumene hydrogen peroxide, acetic acid, dimethyl sulfoxide, dioctyl phthalate, dyes, ethanolamines, glycols, insecticides, petroleum sulfonates, plasticizers, urea, solvents, acrylates, isocyanates, herbicides, EPDM silicone oils



Polymers & Resins

Epoxy resins, latex, synthetic rubber, polystyrene, phenolic resins, adhesives, resin co-polymers, silicone polymers, urethane pre-polymers, styrene monomer



Pharmaceuticals

Amino acids, alkaloids, ascorbic acid, biochemicals, penicillin, Vitamin E, Vitamin C, steroid derivates



Fats & Oils

Cotton seed oil, dimer and trimer acids, edible oils, fatty acids, glycerides, glycerin, mineral oils, paraffin, rosin acids, tall oil, fatty amides, palm oil



Food

Tomato paste, fruit nectars, chicken stock, fish protein, vanillin, corn syrup, whey, fruit purees, lecithin, marigold extract, milk solids



Other

Coal tar products, dyestuffs, fire retardants, rubber coatings, paint wash solvents, lube oils, pitch petroleum wax, pyrethreum, PTA, catalyst concentration (2-EH)

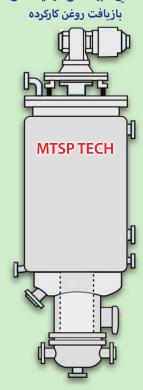
Advantages

Our short path evaporator offers following advantages:

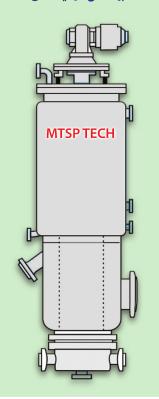
- Low residence time
- No liquid hold-up
- Very low pressure drop
- Suitable for extremely heat-sensitive products
- Suitable for evaporation of components with very high boiling points

Wiped Film Evaporator

مواد حساس ، شیمیایی ، دارویی غذایی ، بهداشتی،آزمایشگاهی بازیافت روغن کارکرده

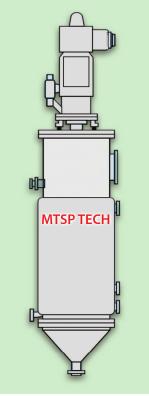


مواد حساس ، شیمیایی ، دارویی، غذایی بهداشتی،آزمایشگاهی



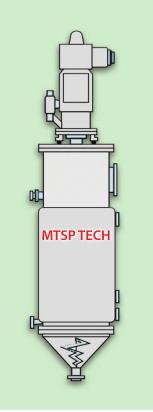
Thin Film Evaporator

شیمیایی ، دارویی، غذایی ، بهداشتی آزمایشگاهی



Thin Film Evaporator

مواد با ويسكوزيته بالا و غليظ



Our Short path evaporator is specifically suited to produce high purities and yields for extremely heat-sensitive substances and compounds with a high molecular weigh

Our Wiped film evaporator is the ideal apparatus if you need a continuous processing of your heat-sensitive, viscous and/or fouling products

Standard Vacuum Co-Current Design

Applications:

General chemicals and pharmaceuticals, solvent recovery, waste streams, food and oil re-refining.

Operations:

Stripping, concentration, dehydrating of moderately viscous and heat sensitive materials.

High Vacuum Co-Current Design

Applications:

High purity chemicals, vitamin E, resins, waxes, plasticizers, and high boilers.

Operations:

Stripping, concentration, deodorization, separation and purification of moderately viscous and heat sensitive materials requiringhigh vacuum operations.

Top Vapor Outlet Counter-Current Design

Applications:

- General chemicals and pharmaceuticals, solvent recovery, waste streams, food
- Used as reboiler for fractionation columns

Operations:

 Distillation, concentration, dehydrating of delicate materials requiring complete removal of volatile phase to less than 1% remaining in product residues

High Viscosity Counter-Current Design

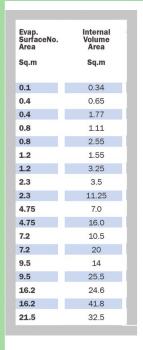
Applications:

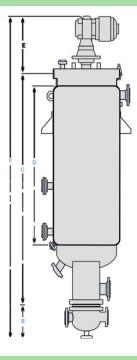
High viscosity or hardto-handle polymers, general chemical, coating, waste streams, and food.

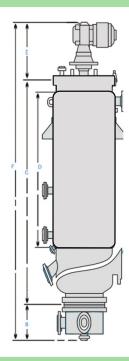
Operations:

 Concentrations of moderate to very highly viscous products

Specification for Alloy Units









OPERATING CONDITIO	NS							
Operating Basis		*Continuous	*Continuous			*Batch		
*Delete as appropriate					No. hours			
Operating Temperature (°	Max Operati	Max Operating Temperature (°C)						
Operating Pressure (Bar)								
UTILITIES AVAILABLE								
UTILITIES AVAILABLE	Type	Quality	Pressure (I	Rar)	Temperature (°C)			
Heating Medium	Steam/Hot Oil*	Q	11000000	,	remperature (c)			
Cooling Medium	Water/Refrigerant*							
Power	Phase	Hertz			Volts V			
rower	rnase	Hertz			VOIES V			
EVAPORATOR INFORM	ATION							
Type required	Wiped Film with	External con-	denser	Internal c	ondenser 🔲			
Location			*Indoor/Out	door				
Classification	Zone			Group				
Available Floor Space	Width (m)			Height (m)				
ADDITONAL INFORMA	NON / MICORIA ANDON							
e.g. Health Hazards, corre- further instrumentation, p	sive nature etc. (attach Má piping etc. (Please add add	DS sheets if available		ems/equipmen	nt, design crite	ria,		
MATERIAL OF CONSTR Wetted Parts:	UCTION Stainless Steel	SS304 🗆			SS316 🔲			
wetted Parts:	Stainless Steel Hastallov	SS304 LI			C22			
	MSGL	02/0						
	Others (Please Specify)							
Nonwetted Parts:	Carbon Steel							
	Stainless Steel	SS304 🔲			SS316 🔲			
	Others (Please Specify)							



BAHARAN PALAYESH SABZ PARSIAN

مدیریت : مهندس علیرضا ابوطالبیان ۹۱۲۷۱۳۵۵۲۵ و ۹۱۲۷۱۳۵۵۲۵ تلفن دفتر مهندسی :۳۸۳۲۲۶۲۲۴۳ و ۲۱۸۹۷۷۴۹۳۹ نمابر(فکس) ۲۱۸۹۷۷۴۹۳۹

Office:+98 383 2262243 Fax:+98 21 89774939 WhatsApp:+989127135525

CONTACT DETAILS						
Name:			Designation	on:		
E-mail:					Mobile No.:	
COMPANY INFORMATION						
Company:						
Address:						
State:	Zip C	Code:				
Tel.:		Fax:				
APPLICATION / OBJECTIVE						
APPEICATION / OBJECTIVE						
PERFORMANCE SPECIFICATIONS						
PERFORMANCE SPECIFICATIONS		M.Wt	Feed		Top Product	Bottom Product
	1	M.Wt	Feed		Top Product	Bottom Product
Composition (List Each Component, Molecular	1 2	M.Wt	Feed		Top Product	Bottom Product
Composition		M.Wt	Feed		Top Product	Bottom Product
Composition (List Each Component, Molecular	2 3 4	M.Wt	Feed		Top Product	Bottom Product
Composition (List Each Component, Molecular Weight (M. Wt) & Weight % of Total)	3	M.Wt	Feed		Top Product	Bottom Product
Composition (List Each Component, Molecular	2 3 4	M.Wt	Feed		Top Product	Bottom Product
Composition (List Each Component, Molecular Weight (M. Wt) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min	2 3 4	M.Wt	Feed		Top Product	Bottom Product
Composition (List Each Component, Molecular Weight (M. Wt) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min	2 3 4					
Composition (List Each Component, Molecular Weight (M. WI) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min Temperature (°C) PHYSICAL PROPERTIES	2 3 4		Feed	To	Top Product	Bottom Product
Composition (List Each Component, Molecular Weight (M. Wt) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min Temperature (°C)	2 3 4			To		
Composition (List Each Component, Molecular Weight (M. WI) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min Temperature (°C) PHYSICAL PROPERTIES	2 3 4			To		
Composition (List Each Component, Molecular Weight (M. Wt) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min Temperature (°C) PHYSICAL PROPERTIES Specific Gravity	2 3 4			To		
Composition (List Each Component, Molecular Weight (M. WI) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min Temperature (°C) PHYSICAL PROPERTIES Specific Gravity Viscosity (Poise)	2 3 4			To		
Composition (List Each Component, Molecular Weight (M. WI) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min Temperature (°C) PHYSICAL PROPERTIES Specific Gravity Viscosity (Poise) Specific Heat (KJ/Kg °C)	2 3 4			To		
Composition (List Each Component, Molecular (List Each Component, Molecular Weight (M. Wt) & Weight % of Total) Flow Rate (Kg/hr) - Max/Min Temperature (°C) PHYSICAL PROPERTIES Specific Gravity Viscosity (Poise) Specific Heat (KJ/Kg °C) Latent Heat of Vaporisation (kJ/kg)	2 3 4			Te		