

орп с ильтра МК, MQ

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

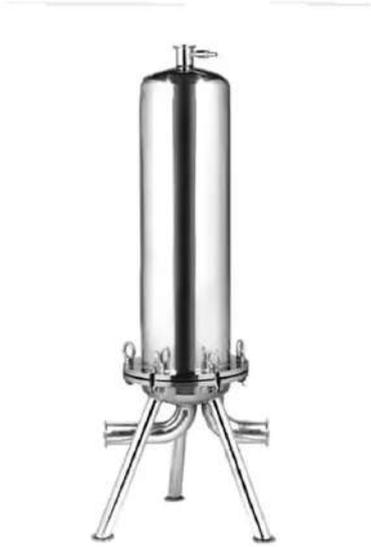
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: mbd@nt-rt.ru || сайт: <https://microlab.nt-rt.ru/>

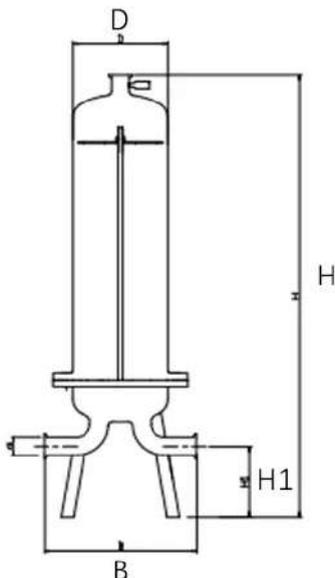


Filter Housing

1. Mirror Surface Finish Complete Stainless Steel Construction
 - a). Reduces bacterial/particle adhesion and no dead space;
 - b). Excellent corrosion resistance;
2. Easy To Install Design With Sanitary Connections, Easy to Clean
 - a). Available in tri-clamp, flanged and thread connections;
 - b). requires minimum floor space and quickly dismantles for easy cleaning;
3. Housings Accommodate From One (1) to Many 10", 20", 30" or 40" Cartridges
 - a). Suitable for small to large batch sizes and flow rates;
 - b). High pressure & high temperature designs are available;
4. Clean-in-Place (CIP) /Steam-in-Place (SIP) Design

Typical Application

1. Water Treatment, RO system;
2. Pharmaceuticals, API, Biologics;
3. Food and Beverage, Wine, Beer, Dairy, Mineral Water;
4. Paints, Inks Plating Solutions;
5. Process Chemicals and Electronics Industry;



Technical Specification

Material:	Housing	Stainless Steel 304 and 316L for Choice	
	O-Ring	Silicone, Viton, EPDM, etc	
Surface Finish:	Interior/Exterior	Electro polished, Ra ≤ 0.2um	
Connections:	Inlet/Outlet	Tri Clamp	1" to 10" Or as your request
		Flange	
		Thread	
	Vent	¼" female	
	Drain	1" male or as your request	
Lid/Cover Type:	Swing Bolts or Tri Clamp(only for single round)		
Designed Pressure:	10bar (145 psi) with in 30mins		
Operating Pressure:	Max. 7.2 bar(108 psi)		
Temperature:	Max. 95 °C (sterilization 150 °C)		
Cartridge Adapter:	220, 222, 226, etc		
Cartridge Capacity:	1, 3, 5, 8..... 30, 36, 45 round		

Order Information

Cartridges		Body Closure	d (outlet/inlet)	Dimensions(mm)			
Nos.	Length			D	B	H1	H
1	5"	Ferrule clamp	1inch	102	180	120	570
	10"						690
	20"						940
	30"						1190
3	10"	Stud bolts	1 1/4 inch	184	240	180	720
	20"						980
	30"						1210
5	10"	Stud bolts	1.5 inch	219	280	200	130
	20"						990
	30"						1220
	40"						1460
7	20"	Stud bolts	1 3/4 inch	273	420	210	1060
	30"						1290
	40"						1530
9	20"	Stud bolts	2 inch	325	460	210	1080
	30"						1310
	40"						1550
12	20"	Stud bolts	2 1/4 inch	350	480	240	1150
	30"						1380
	40"						1620
18	20"	Stud bolts	3 inch	400	500	260	1160
	30"						1390
	40"						1630
21	20"	Stud bolts	3.5 inch	450	600	280	1190
	30"						1420
	40"						1660

.....

Industrial Equipment

Single - effect energy-saving concentrator

Introduction

The equipment is applicable for the concentration and recovery of industrial organic solvent(Such as alcohol) of traditional Chinese medicine,western medicine,glucose, starch sugar,oral liquid,chemical industry,food,monosodium glutamate and dairy products.It's can be used in the low temperature vacuum concentration of heat sensitive substances with small batches and large varieties.

Feature

1. Alcohol recovery: Large recovery capacity. Adopt vacuum concentration process. It enhances more than 5-10 times production capacity of the same kind of equipment. The energy consumption is 30% reduced.
2. Liquid concentration: The equipment adopts external heating natural cycling mode and vacuum negative pressure evaporating mode, with instant evaporation and great concentrated specific gravity up to 1.3.



Item	Heater		Evaporator		Condenser	
	Shell pass	Tube pass	Inside the tube	Jacket	Shell pass	Tube pass
Design pressure(MPa)	0.09	0.09	0.09	0.09	0.3	0.09
Working pressure(MPa)	<0.09	-0.07	-0.07	<0.09	0.25	-0.07
Design temperature(°C)	<100	<100	<100	<100	30-40	<100
Working temperature(°C)	<100	<100	<100	<100	30-40	<100
Medium	Steam	Liquid	Liquid	Saturated steam	Chilling water	Secondary steam
Main material	SUS304	SUS304	SUS304	Q235B	SUS304	SUS304
Volume(L)	1100					
Heat exchanging area(m ²)	10			16.8		
Evaporation capacity(kg/h)	500					

Item	Heater		Evaporator		Condenser	
	Shell pass	Tube pass	Inside the tube	Jacket	Shell pass	Tube pass
Design pressure(MPa)	0.09	0.09	0.09	0.09	0.3	0.09
Working pressure(MPa)	<0.09	-0.07	-0.07	<0.09	0.25	-0.07
Design temperature(°C)	<100	<100	<100	<100	30-40	<100
Working temperature(°C)	<100	<100	<100	<100	30-40	<100
Medium	Steam	Liquid	Liquid	Saturated steam	Chilling water	Secondary steam
Main material	SUS304	SUS304	SUS304	Q235B	SUS304	SUS304
Volume(L)	1100					
Heat exchanging area(m ²)	18			28		
Evaporation capacity(kg/h)	1000					

Industrial Equipment

Dual - effect energy-saving concentrator

Introduction

Applicable to low temperature vacuum concentration of heat sensitive materials, especially applicable to concentration of traditional Chinese medicine, western medicine, starch sugar and other water solution.

Feature

After being compressed through hot pump, the single effect secondary steam is supplied to the single effect heating, so that large amount of steam is saved and production cost is reduced.



Specification

1. Extraction tank capacity (m³) : 1, 2, 3, 6.
2. Concentrator volume (m³) : 0.5, 1, 1.5, 2.5.
3. Water temperature: 90–100°C.
4. Alcohol temperature: 78–83°C.
5. Time: 4–5 H/b.
6. Vacuum degree: 0.05–0.08MPa.
7. Used pressure: 0.08–0.2MPa.

Traditional Chinese medicine

Item	Traditional Chinese medicine with heat pump	Traditional Chinese medicine
High ejection steam pressure (MPa)	0.5-0.6	0.1-0.25
Thermal compressor noise (DB (A))	80-85	
Theoretical steam-water ratio	0.30	0.50
Actual steam-water ratio	0.33-0.35	0.65-0.75
Single of effect	Shell vacuum (MPa)	0.03-0.04
	Heating steam temperature(°C)	85-90
	Vacuum degree of evaporation chamber(MPa)	0.06-0.068
	Boiling point(°C)	70-75
Second of effect	Shell vacuum (MPa)	0.060-0.068
	Heating steam temperature(°C)	70-75
	Vacuum degree of evaporation chamber(MPa)	0.082-0.089
	Boiling point(°C)	60-67
Cooling water consumption	1L	1.43L
Operability	Simple operation, easy to observe	
Economical efficiency	small ground occupation and low cost	small ground occupation and high cost

Industrial Equipment

Three - effect energy-saving concentrator

Introduction

The concentrator adapted to traditional Chinese medicine, western medicine, glucose, starch, monosodium glutamate, food, chemical and other liquid condensed materials, especially for low-temperature heat-sensitive objects like vacuum concentration.

Feature

1. The heating chamber tube, tube condenser, the middle of ISO standards are used to connect pipe polished mirror surface tube inside and outside to ensure smooth flow of materials, no arrest, no heating chamber of coking clogging, scaling and cleaning to reduce the number of increase production efficiency.
2. The heating chamber, evaporation rounded interior surface of the transition, no dead ends, all weld grinding, surface polished to $Ra < 0.4 \mu m$.
3. The concentrator and the natural cycle with external heating, vacuum evaporation, with evaporation speed, concentration ratio of heavy cream confined income.
4. The concentrator at the same time by three-way evaporator, secondary steam used repeatedly.



Item	MK3-5	MK3-10	MK3-15	MK3-20	MK3-30	MK3-50
Max evaporating capacity(Kg/h)	500	1000	1500	2000	3000	5000
Steam pressure(MPa)	0.3-0.09					
Steam consumption(kg/h)	≤200	≤400	≤600	≤800	≤1200	≤2000
Cooling water consumption(t/h)	5	10	13	15	18	25
Length(m)	5.0	6.5	7.0	7.5	7.8	8.0
Width(m)	1.3	1.5	1.7	2.0	2.0	2.0
Height(m)	3.3	3.5	4.3	4.5	4.5	4.5
	Vacuum degree(MPa)			Evaporating temperature(°C)		
Single-effect		-0.04			85	
Second-effect		-0.06			75	
Third-effect		-0.08			65	

Industrial Equipment

Vacuum pressure-relief concentrator

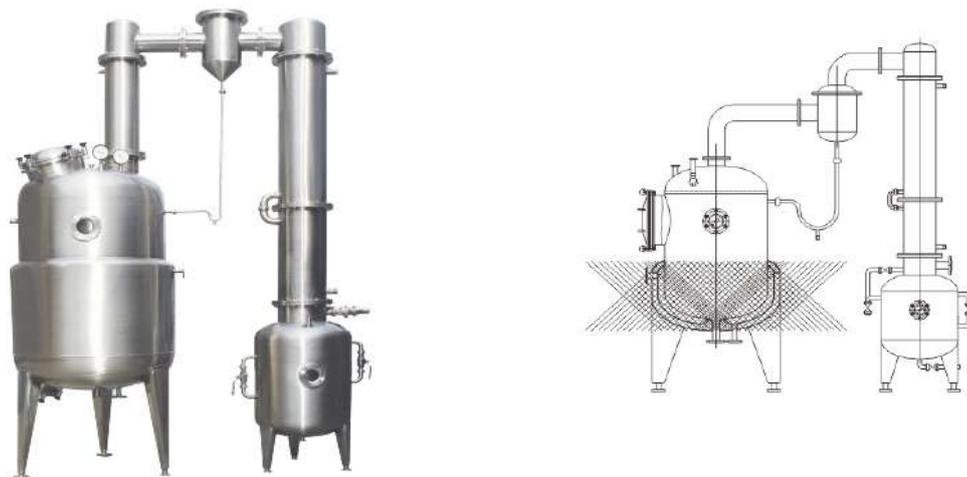
Introduction

The equipment is applicable for the concentration and recovery of industrial organic solvent (Such as alcohol) of, traditional Chinese medicine, western medicine, glucose, starch sugar, oral liquid, chemical industry, food, monosodium glutamate and dairy products. It can be used in the low temperature vacuum concentration of heat sensitive substances with small batches and large varieties.

Feature

1. Alcohol reclamation. Large reclamation capacity and the vacuum concentration procedure make its production capacity five to ten times that the old counterpart and can lower the energy consumption for 30%, featuring little investment and high reclamation profit.

2. Concentrated liquid material: The device uses the modes of outer heated natural cycle and vacuum negative pressure evaporation featuring swift evaporation with concentration proportion of 1.3; The liquid material concentrates without bubble under full seal state. The drug liquid after concentration by the device features pollution-free and thick drug taste and easy cleaning.



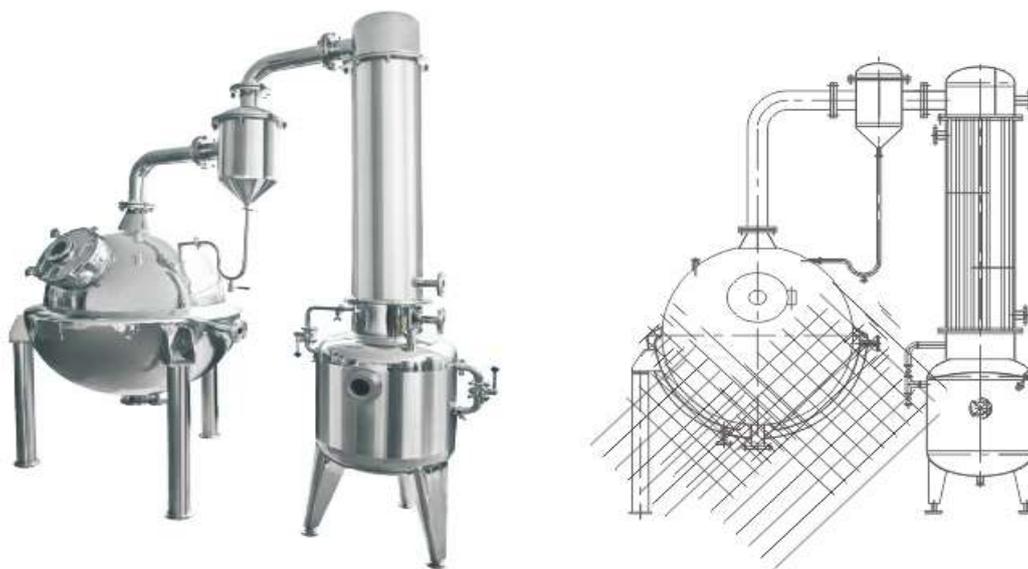
Specification \ Model	MK-5	MK-10	MK-20	MK-30	MK-50	MK-70	MK-100
Volume(L)	50	100	200	300	500	700	1000
Tank volume(L)	35	45	60	76	100	125	165
Interlayer pressure(Mpa)	0.098						
Vacuum degree(MPa)	0.06-0.07						
Heating are(m ²)	0.25	0.59	0.8	1.1	1.45	1.8	2.2
Condensing area(m ²)	1.2	1.7	2.4	3.0	3.3	3.6	4.1
Cooling are(m ²)	0.29	0.35	0.45	0.6	0.7	0.85	1.05
Length(m)	1.2	1.7	1.7	1.7	2.1	2.4	2.39
Width(m)	0.6	0.8	0.8	1.0	1.2	1.3	1.3
Height(m)	2.2	2.7	2.7	3.4	3.4	3.4	3.72
Water consumption(kg/h)	3	5	6	8	10	11	15

Industrial Equipment

Ball Concentrator

Introduction

The roundness concentration tank, consisting of main body, condenser, gas liquid separator and liquid receiving barrel, serves to concentrate, distill the material liquid and reclaim organic menstruum in the pharmacy, foodstuff and chemistry. The concentration under reduced pressure brings short time of concentration and prevent the destruction of the effective content in the thermal sensitive material. The fact that the part in contact with the material is made with stainless steel brings qualified anti-corrosion performance, meeting with the GMP standard.



Specification	Model	MQ-300	MQ-500	MQ-700	MQ-1000
Evaporation quantity(kg/h)		70	120	145	195
Nominal volume(L)		300	500	700	1000
Inside diameter of ball(mm)		800	990	1115	1250
Steam pressure(MPa)		0.098			
Vacuum degree (MPa)		0.06-0.07			
Heating area(m ²)		1.1	1.6	2	2.5
Condensing area (m ²)		2.4	3.2	3.5	4.5
Outline dimension		1900*1100*2300	2030*1200*2500	2100*1300*2500	2335*1520*2765
Equipment weight(kg)		380	450	630	950
Steam consumption(kg/h)		77	132	159	214
Water consumption(t/h)		2	4	6	7
Steam inlet(m/m)		25	25	40	40
Water inlet and outlet(m/m)		30	30	40	40

Filtration series

Microporous filter

Introduction

The filter is made to FDA standard by bringing in technique, the raw material is high-quality stainless steel (304, 316L) is small, light, pollution-free and convenient to use besides, it has big filter area, low blocking rate, fast filter speed, good thermal stability and chemical stability. The filter can remove most granules so it's widely applied in fine filter and sterilization.



Double filter

Introduction

This equipment is used to filter various solids or colloids in the liquids such as traditional Chinese medicine, western medicine, fruit juice, sirup, milk and beverages etc. Two filters can be changed over. The filter screen can be cleaned without stopping.



По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: mbd@nt-rt.ru || сайт: <https://microlab.nt-rt.ru/>