



Zhengzhou Toper Industrial Equipment Co., Ltd
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Filter Press Series

1. Program -controlled automatic filter press



Program -controlled automatic filter press adopts PLC control which can operate all the control for filter press (e.g. compressing filter press, combining and starting liquid combining relaxing filter plate and opening filter plate). And there is telecontrol connector to realize automatic operate control.

Program -controlled automatic filter press specifications and technical parameters:

Specification	Filter area (m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filtrating pressure (Mpa)	Motor power (kw)	Weight (kg)
XZ30/800-30U	30	870*870	30	460	23	0.6	5.5	3046
XZ40/800-30U	40			595	30			3593
XZ50/800-30U	50			748	38			4057
XZ60/800-30U	60			902	46			4597
XZ70/800-30U	70			1056	54			5136
XZ80/800-30U	80			1210	62			5636
XZ50/1000-30U	50	1000*1000		752	28	0.6	5.5	4128



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XZ60/1000-30U	60			908	34			4636				
XZ70/1000-30U	70			1063	40			5143				
XZ80/1000-30U	80			1219	46			5651				
XZ100/1000-30U	100			1505	57			6628				
XZ120/1000-30U	120			1816	69			7644				
XZ100/1250-30U	100	1250*1250	30	1478	36	0.5	5.5	8307				
XZ120/1250-30U	120			1765	43			9308				
XZ140/1250-30U	140			2094	51			10455				
XZ160/1250-30U	160			2381	58			11492				
XZ180/1250-30U	180			2669	65			12494				
XZ200/1250-30U	200			2965	72			13504				
XZ220/1250-30U	220			3285	80			14652				
XZ250/1250-30U	250			3737	91			16227				
XZ200/1500-30U	200			1500*1500	30			3025	49	0.5	5.5	20030
XZ250/1500-30U	250							3739	61			22978
XZ300/1500-30U	300	4413	74			26026						
XZ350/1500-30U	350	5210	86			29220						
XZ400/1500-30U	400	6007	99			32574						
XZ450/1500-30U	450	6743	111			35586						
XZ500/1500-30U	500	7478	123			38606						
XZ600/2000-40U	600	2000*2000	40			12.0	85	0.5	5.5			49000
XZ700/2000-40U	700			14.0	99	53000						
XZ800/2000-40U	800			16.0	107	57000						
XZ900/2000-40U	900			18.0	127	61000						
XZ1000/2000-40U	1000			20.0	141	65000						



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2 Membrane filter press



Membrane filter press consists of membrane plate and filter chamber made of ordered filter plates. The slurry materials are sent to filter chamber by the pressure of feeding pump and then go into filtrating transmitter(filter cloth) to separate solid and liquid in slurry material. When solid in slurry material becomes cake shape, air is sent to membrane to fully squeeze the solid to reduce moisture content. If users have high requirement about filtration of sticky material and moisture content ratio, this machine has its own special characteristics to meet the need.

Filter plates are made from TPE material mould. Membrane and TPE are enchased inset to become firm, do not fall off easily and have a long service life.

Membrane filter press (diaphragm filter press) specifications and technical parameters:

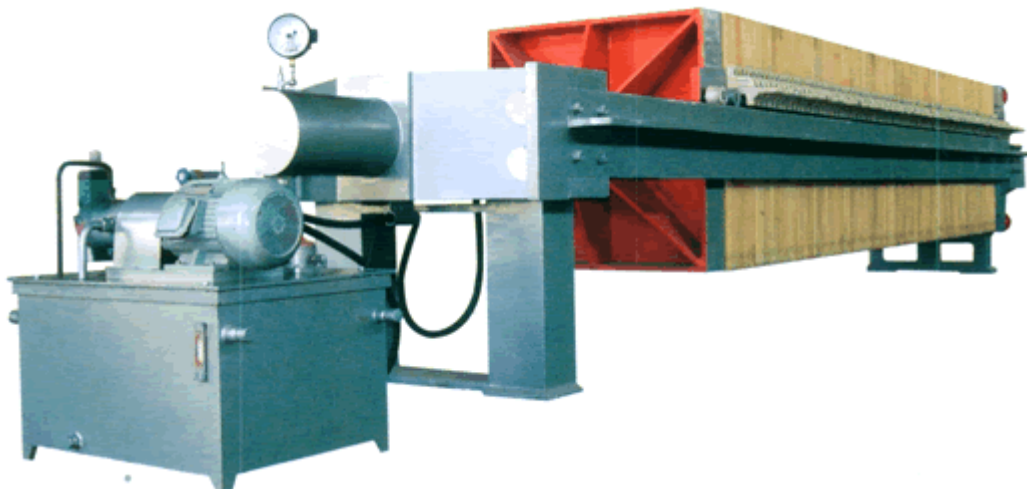
Specification	Filter area (m ²)	Filter plate size(mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filtrating pressure (Mpa)	Motor power (kw)	Weight (kg)
XG30/800-30U	30	800*800	30	460	23	0.6	2.2	2680
XG40/800-30U	40			595	29			3050
XG50/800-30U	50			748	37			3465
XG60/800-30U	60			902	45			4003
XG70/800-30U	70			1056	53			4584
XG80/800-30U	80			1210	61			5082
XG50/1000-30U	50	1000*1000		752	27	0.6	2.2	4352
XG60/1000-30U	60			908	33			4808



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XG70/1000-30U	70			1063	39			5263
XG80/1000-30U	80			1219	45			5719
XG100/1000-30U	100			1505	57			6555
XG120/1000-30U	120			1816	69			7466
XGZY1250-X	80	1250*1250	35	1388	29	0.6	4.0	10900
	100			1758	37			11750
	120			2129	45			12600
	150			2592	55			13620
	160			2777	59			14470
	200			3518	75			15320
	240			4165	89			16170
	250			4351	93			17020
XGZY1500-X	220	1500*1500	35	3922	57	0.6	5.5	26120
	250			4463	65			26930
	300			5274	77			28160
	320			5680	83			28780
	350			6221	91			29600
	380			6627	97			30220
	400			7032	103			31500
	450			7844	115			33400
	480			8385	123			34250
	500			8791	129			33380

3 Automatic hydraulic pressing filter press





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Automatic hydraulic pressing filter press adopts electro connecting pressure gauge to realize auto-maintaining pressure with advantages of convenient operation, steady run and reliable structure. It is suitable for filtrating huge area.

Automatic maintaining pressure chamber filter press specifications and technical parameters:

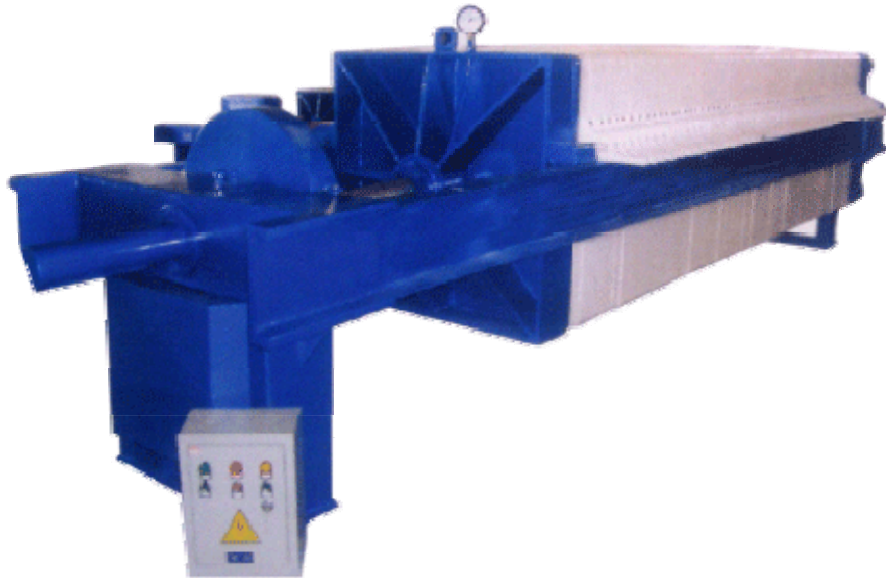
Specification	Filter area (m2)	Filter plate size(mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filtrating pressure (Mpa)	Motor power (kw)	Weight (kg)
XY4/450-30U	4	450*450	30	60	9	0.6	2.2	860
XY6/450-30U	6			91	14			910
XY8/450-30U	8			121	19			960
XY10/450-30U	10			151	24			1010
XY12/450-30U	12			182	29			1060
XY15/450-30U	15			225	36			1130
XY16/450-30U	16			243	39			1160
XY15/630-30U	15	630*630	30	226	18	0.6	2.2	1725
XY20/630-30U	20			297	24			1993
XY30/630-30U	30			452	37			2360
XY40/630-30U	40			595	49			2788
XY30/800-30U	30	800*800	30	460	23	0.6	1.5	2580
XY40/800-30U	40			595	30			2925
XY50/800-30U	50			748	38			3318
XY60/800-30U	60			902	46			3712
XY70/800-30U	70			1056	54			4106
XY80/800-30U	80			1210	62			4561
XY50/1000-30U	50			1000*1000	30			752
XY60/1000-30U	60	908	34			4468		
XY70/1000-30U	70	1063	40			4863		
XY80/1000-30U	80	1219	46			5259		
XY100/1000-30U	100	1505	57			5985		
XY120/1000-30U	120	1816	69			6776		
XY100/1250-30U	100	1250*1250	30	1478	36	0.6	4	6728
XY120/1250-30U	120			1765	43			7512
XY140/1250-30U	140			2094	51			8641
XY160/1250-30U	160			2381	58			8205
XY180/1250-30U	180			2669	65			10044
XY200/1250-30U	200			2965	72			10851



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XY220/1250-30U	220	1500*1500		3285	80	5.5	11765
XY250/1250-30U	250			3737	91		12834
XY200/1500-30U	200			3025	49		19530
XY250/1500-30U	250			3739	61		22478
XY300/1500-30U	300			4413	74		25526
XY350/1500-30U	350			5210	86		28720
XY400/1500-30U	400			6007	99		32074
XY450/1500-30U	450			6743	111		35086
XY500/1500-30U	500			7478	123		38106

4 Mechanical pressed filter press



When **mechanical pressed filter press** works, the motor drives reducer, and the strength goes through transmission parts to push pressing plate to press filter plate. Clamping screw and fixed nut are designed with reliable self-locking spiral angle which can make sure the reliability and stability when it presses. There is integrated motor protector with automatic control to realize the motor overheating and overload protection.

Mechanical Pressed Chamber Filter Press specifications and technical parameters:

Specification	Filter area (m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filtrating pressure (Mpa)	Motor power (kw)	Weight (kg)
XJ15/630-30U	15	630*630	30	226	18	0.6	2.2	1725



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XJ20/630-30U	20			297	24			1993
XJ30/630-30U	30			452	37			2360
XJ40/630-30U	40			595	49			2788
XJ30/800-30U	30			460	23			2580
XJ40/800-30U	40	800*800		595	30	0.6	3	2925
XJ50/800-30U	50			748	38			3318
XJ60/800-30U	60			902	46			3712
XJ70/800-30U	70			1056	54			4106
XJ80/800-30U	80	1000*1000		1210	62	0.6	3	4561
XJ50/1000-30U	50			752	28			1072
XJ60/1000-30U	60			908	34			4468
XJ70/1000-30U	70			1063	40			4863
XJ80/1000-30U	80			1219	46			5259
XJ100/1000-30U	100			1505	57			5985
XJ120/1000-30U	120			1816	69			6776

Mechanical Compression Plate and Frame Filter Press specifications and technical parameters:

Specification	Filter area (m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filter frame number (pcs)	Filtrating pressure (Mpa)	Motor power (kw)	Weight (kg)
BJ15/630-30U	15	630*630	30	226	18	19	0.6	2.2	1932
BJ20/630-30U	20			297	24	25			2046
BJ30/630-30U	30			452	37	38			2668
BJ40/630-30U	40			595	49	50			3228
BJ30/800-30U	30	800*800	30	460	23	24	0.5	3	2695
BJ40/800-30U	40			595	30	31			3075
BJ50/800-30U	50			748	38	39			3508
BJ60/800-30U	60			902	46	47			3942
BJ70/800-30U	70			1056	54	55			4376
BJ80/800-30U	80			1210	62	63			4871



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5 Jack pressed filter press



Jack pressed filter press adopts spiral jack as pressed equipment with features of simple structure, convenient operation, power-off operation and economic design. The filter press is suitable for filtrating area 1-40 m².

Jack pressed chamber filter press specifications and technical parameters:

Specification	Filter area (m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filtrating pressure (Mpa)	Weight (kg)
XQ1/320-30U	1	320*320	30	15	4	0.6	490
XQ2/320-30U	2			31	9		528
XQ3/320-30U	3			46	14		550
XQ4/450-30U	4	450*450		60	9	0.6	780
XQ6/450-30U	6			91	14		830



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Jack pressed plate and frame filter press specifications and technical parameters:

Specification	Filter area (m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filter frame number (pcs)	Filtrating pressure (Mpa)	Weight (kg)
BQ1/320-30U	1	320*320	30	15	4	5	0.6	500
BQ2/320-30U	2			31	9	10		545
BQ3/320-30U	3			46	14	15		570
BQ4/450-30U	4	450*450		60	9	10	0.5	798
BQ6/450-30U	6			91	14	15		858
BQ8/450-30U	8			121	19	20		918
BQ10/450-30U	10			151	24	25		978
BQ12/450-30U	12			182	29	30		1038
BQ15/450-30U	15			225	36	37		1122
BQ16/450-30U	16			243	39	40		1158
BQ15/630-30U	15	630*630		226	18	19	0.4	1579
BQ20/630-30U	20			297	24	25		1796
BQ30/630-30U	30			452	37	38		2258
BQ40/630-30U	40			595	49	50		2893



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6 Cast iron plate and frame filter press & chamber filter press



铸铁滤板

ecgoods.com

Cast iron filter press is precisely made by high quality cast iron and nodular cast iron. It is suitable for filtrating high temperature material with high strength filter plate, high pressure filtrating load, long service life. It can be widely used to separate solids and liquid in petroleum chemical industry, metallurgy, grease and ceramic industries.

320/450/630 type cast iron plate and frame plate & chamber filter press technical parameter:

Specification	Filter area (m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filter frame number (pcs)	Filtrating pressure (Mpa)	Weight (kg)
BQ1/320-25	1	320*320	25	13	4	5	1.0	380
BQ2/320-25	2			25	9	10		500
BQ3/320-25	3			38	14	15		620
BQ4/450-25	4	450*450	25	51	9	10	0.8	1060
BQ6/450-25	6			76	14	15		1160
BQ8/450-25	8			102	19	20		1360
BQ12/450-25	12			152	29	30		1530
BQ16/450-25	16			203	39	40		1760
XQ4/450-25	4	450*450	25	51	9	1.0	1.0	960
XQ6/450-25	6			76	14			1140
XQ8/450-25	8			102	19			1460
XQ12/450-25	12			152	29			1960
XQ16/450-25	16			203	39			2460
BQ20/630-25	20	630*630	25	298	24	25	0.6	3300
BQ30/630-25	30			452	37	38		4500



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BQ40/630-25	40			295	49	50		5600	
BY20/630-25	20			298	24	25		3700	
BY30/630-25	30			452	37	38		5000	
BY40/630-25	40			595	49	50		6100	
XQ20/630-25	20		25		248	24		0.8	3400
XQ30/630-25	30				377	37			4700
XQ40/630-25	40			496	49	5900			
XY20/630-25	20			248	24	3800			
XY30/630-25	30			377	37	5200			
XY40/630-25	40			496	49	6400			

Note: Foundation size drawing should be suitable for polypropylene plate and frame filter press drawing.

800 type cast iron plate and frame plate & chamber filter press technical parameter:

Specification	Filter area (m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filter frame number (pcs)	Filtrating pressure (Mpa)	Weight (kg)	
BY40/800-25	40	800*800	25	496	30	31	0.6	6400	
BY50/800-25	50			624	38	39		7650	
BY60/800-25	60			752	46	47		8900	
BY70/800-25	70			880	54	55		10500	
BY80/800-25	80			1008	62	63		11800	
XY40/800-25	40		30		595	30		0.8	6750
XY50/800-25	50				749	38			8100
XY60/800-25	60				902	46			9400
XY70/800-25	70				1056	54			11100
XY80/800-25	80				1210	62			12500

Note: Flange size should be in accordance with that of polypropylene plate and frame filter press.



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800-1200 type automatic cast iron chamber filter press technical parameter:

Specification	Filter area (m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filter frame number (pcs)	Filtrating pressure (Mpa)	Weight (kg)
XZ50/800-30	50	800*800	30	730	38		0.8	9000
XZ60/800-30	60			883	46			10800
XZ70/800-30	70			1036	54			12000
XZ80/1000-30	80	930*930		1194	45		0.8	13800
XZ90/1000-30	90			1323	51			15500
XZ100/1000-30	100			1479	57			16800
XZ80/1200-30	80	1130*1130		1226	31		0.6	17600
XZ90/1200-30	90			1379	35			18800
XZ100/1200-30	100			1532	39			20800
XZ120/1200-30	120			1838	47			23500
XZ150/1200-30	150			2300	59			27500
XZ180/1200-30	180			2758	71			31500

7 Stainless steel plate and frame filter press:



It can be used in all kinds of suspension liquid for separating solid and liquid, such as food, environmental protection lighty industry, medicine, chemical industry, metallurgy, petroleum industry, etc., especially large quantity of liquid beverage precise filtration or degerming filtration in beer, white spirit, wine, oil.



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Work principle and structural features:

Suspension liquid are sent by material pump into every sealed filtrating chamber. Under pressure, liquid goes through filtrating layers and filtrating cloth, and then discharged from outlet but residue are kept in filtrating frame to separate solid and liquid.

Product features:

There are paperboards or filtrating materials to seal the gaps between filtrating frames and filtrating plates. This filter press is a stainless plate and frame precise one (or called stainless paperboard filter press) with large filtrating capacity and filtrating areas over 2 m². A fixed bar is equipped to set paperboard under filter press to make it convenient to put filtrating material. It uses precise degerming paper to filtrate different kinds of health wine, wine.

Stainless steel plate and frame filter press technical parameter:

Specification	Filter area(m ²)	Filter plate size (mm)	Filter cake thickness (mm)	Filter chamber volume (L)	Filter plate number (pcs)	Filter frame number (pcs)	Filtrating pressure (Mpa)	Weight (kg)			
BAQ1/320	1	320*320	25	13	4	5	1.0	300			
BAQ2/320	2			25	9	10		440			
BAQ3/320	3			38	14	15		600			
BAQ4/450	4	450*450	25	51	9	10	0.8	780			
BAQ6/450	6			76	14	15		995			
BAQ8/450	8			102	19	20		1250			
BAQ10/450	10			122	24	25		1470			
BAQ12/450	12			152	29	30		1700			
BAQ16/450	16			203	39	40		2170			
BAY4/450	4			51	9	10		850			
BAY6/450	6			76	14	15		1070			
BAY8/450	8			102	19	20		1950			
BAY10/450	10			122	24	25		2170			
BAY12/450	12			152	29	30		2400			
BAY16/450	16			203	39	40		2870			
BAQ10/610	10			550*550	25	122		15	16	0.6	2030
BAQ12/610	12					152		19	20		2290
BAQ15/610	15					189		24	25		2610
BAQ20/610	20					250		32	33		3120
BAY10/610	10	122	15			16	2730				
BAY12/610	12	152	19			20	2990				
BAY15/610	15	189	24			25	3310				
BAY20/610	20	250	32			33	3820				



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BAQ15/630	15	630*630		189	18	19		2620
BAQ20/630	20			250	24	25		3100
BAQ30/630	30			377	37	38		4130
BAY15/630	15			189	18	19		2870
BAY20/630	20			250	24	25		3950
BAY30/630	30			377	37	38		4980
BAY30/800	30	800*800		442	22	23		5710
BAY40/800	40			595	30	31		7126
BAY50/800	50			748	38	39		8543

8 Chamber Filter Press With Φ 800 Round Plate



Filter area 20M²-80M²
 filtration pressure 1MPa-2.5Mpa

Technical data of Chamber Filter Press With Φ 800 Round Plate:

Par. Item Spec	Filter area	Filter plat size	Quantity of filter plate	Volume of straining chamber	Rated filtration pressure	Compressed max. displacement	Rated pressure of oil cylinder	Weight
	M ²	MM	PC	L	Mpa	MM	Mpa	KG
X ^A _M 20/ ϕ 800-25	20	ϕ 800	25	255	2	500	30	4100
X ^A _M 30/ ϕ 800-25	30	ϕ 800	37	377				5460
X ^A _M 40/ ϕ 800-25	40	ϕ 800	49	499				6820
X ^A _M 50/ ϕ 800-25	50	ϕ 800	61	621		600		8210
X ^A _M 60/ ϕ 800-25	60	ϕ 800	74	753				9710
X ^A _M 70/ ϕ 800-25	70	ϕ 800	86	875				11210



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Note: 1.If need the seal ring between the seal surface of filter plate, size L1 will increase;
 2.When place a order, you need to indicate the fileter pressure in the contract, so that we can manufacture according to our requirement.

Circular frame filter press

Filter area 20 mm-80 mm

Filtrate pressure 1MPa-2.5Mpa

Technical data of circular frame filter press 800

Par. Item Spec	Filter area	Filter plat size	Quantity of filter plate	Volume of straining chamber	Rated filtration pressure	Compressed max. displacement	Rated pressure of oil cylinder	Weight
	M ²	MM	PC	L	Mpa	MM	Mpa	KG
X ^A _M 20/φ800-25	20	φ800	25	255	2	500	30	4100
X ^A _M 30/φ800-25	30	φ800	37	377				5460
X ^A _M 40/φ800-25	40	φ800	49	499				6820
X ^A _M 50/φ800-25	50	φ800	61	621		600		8210
X ^A _M 60/φ800-25	60	φ800	74	753				9710
X ^A _M 70/φ800-25	70	φ800	86	875				11210

Note: 1.If need the seal ring between the seal surface of filter plate, size L1 will increase;
 2.When place a order, you need to indicate the fileter pressure in the contract, so that we can manufacture according to our requirement.

9 Cotton cake filter press



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Cotton cake filter is adopt fibrous material which can be repeatedly used to filtrate trace fat, mechanical admixture, suspension complex in the liquid material. Makes the filtered liquid was clear and transparent.

Usage and characteristics

The cotton cake filter we made is plate-and-frame filter which is used in liquid cleaning and filtration. It is widely used in chemical, metallurgy, pharmacy, food industry. This machine has features of big filter area, convenient maintenance. The plate and frame is round structure, which is more finer than the filter with square structure. The material of plate and frame of this filter is adopted copper alloy and aluminium alloy. And the quantity of plate and frame can be increased of decreased, then can be used in different liquid.

Application:

fermentation liquor, zymin, ribonucleic acid, gelatin, food & beverage etc.

Technical parameters:

Filter area	Plate size	Filtration pressure	Total volume of in-frame	Overall dimension (LXWXH)	Flow rate	Motor power	Rated rotation speed of motor	Stability pressure of oil cylinder compression	Compression plate maximum displacement
M ²	MM	KG/CM ²	L	MM	(L/MIN)	KW	r/min	Mpa	MM
8	φ500	≤2	216	2630x1150x770	87	1.1	1460	12	350



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Filter area	Plate size	filtration pressure	Total volume of in-frame	Overall dimension (LXWXH)	Flow rate	Motor power	Rated rotation speed of motor	Stability pressure of oil cylinder compression	Compression plate maximum displacement
M ²	MM	KG/CM ²	L	MM	(L/MIN)	KW	r/min	Mpa	MM
5	φ400	≤2	138	2630x1050x670	55	1.1	1460	12	350

10 Cardboard filter



Cardboard filter press is widely used in medicine, food, biology, beverage and fine chemical industry.

Cardboard filter technical parameter:

Specification	Filter area	Filter chamber volume	Filter plate size	Filter plate thickness	Filter plate quantity	Filter frame quantity	Total weight	Filtration pressure
	m ²	L	MM	MM	PCS	PCS	KG	Mpa
BAY10/610-25u	10	128	550	25	16	17	690	0.4
BAY15/610-25u	15	189	550	25	24	25	715	0.4



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BAY20/610-25u	20	257	550	25	33	34	727	0.4
BAY25/610-25u	25	317	550	25	41	42	738	0.4
BAY30/610-25u	30	378	550	25	49	50	750	0.4

DY Belt Filter Press Series



DY series belt filter

DY series belt filter press is a new type based on international advanced technology which was introduced by national scientific research unit and our company. It can be widely used in sludge dewatering of urban sewage treatment, chemical industry, oil refining, metallurgy, papermaking, leather making, foodstuff, coal washing and printing and dyeing industry. It is an ideal equipment to sludge dewatering with advantages of continuous work, high automation, energy saving, high efficiency, and easy maintenance.

Design features:

1. Adopting advanced Austrian technology with beautiful appearance.



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2. With big stiffness structure, smooth operation and low noise.
 3. Equipped with advanced concentration pretreatment equipment with great effect to flocculation and low cost of operation.
 4. Equipped with advanced distributing device in gravity dehydration to make materials distributed well to make filtrating belt have a long service life.
 5. With long gravaty dehydration and wedge dehydration to make material dewatering completely to make sure there is no water spilling in squeezing place.
 6. With scientific order roller system arrangement to let water in gravity dehydration and wedge dehydration discharge seperatedly. The diameter of squeezing dewatering roller is with large ratio and dewatering effect is good with large capacity, saving energy and high efficiency.
 7. With high degree automation from feeding material to removing sludge cake and setting PLC port if necessary to make computer easy to do centralized control.
 8. Power transmission adopts mechnery or stepless speed regulation with large regulation scope and wide adaptability.
 9. Setting with the reliable back washing device to assure filtrating belt's dehydration effect.
 10. Adopting pneumatic tension device and pneumatic automatic correction device to ensure filtrating belt can work safely and smoothly.
 11. The operation is reliable and safety with infrared safety protection and comprehensive emergency safety stopping device.
 12. Different materials are equipped with different types of filtrating belt with high precise filtration.

Structure and principle:

DY series belt filter press consists of drive machine, sludge distributor, filtrating belt, tension device, automatic adjusting machine, filtrating belt washed machine, mud scraper, gravity dehydration, wedge dehydration, squeezing dehydration and frame, etc.



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The process of filter is that sludge after flocculation treatment goes into sludge distributor to gravity dehydration which is a little long period with horizontal movement and small angle rising period; then filtrated sludge moves with filtrating belt and under gravity, free water is seperated from flocculation material. Most of water are removed from sludge, so sludge almost loses mobility. Then into wedge dehydration. The space in wedge dehydration is from samll size to big size and then the two filtrating belts come together to make sludge bewteen two belts under gradually growing squeezing pressure to let water discharged frequently. At this stage, sludge has lost the mobility which prepares for squeezing dehydration next step. The diameter of squeezing rollers are ordered from small to big size, but pressure on sludge grows gradually. Sludge is squeezed and plasma cutted through severla S type orders squeezing rollers to make saturated water dehydrated from sludge which finishes the dewatering process of sludge. When filtrating belt goes through discharging device, mud cakes are scraped by scraper from filtrating belt. The upper and lower filtrating belts are washed and then go back to gravity dehydration to fulfill next cycle of sludge dehydration.

DY belt filter technical parameters:

Type	Belt width (mm)	Main motor power (kw)	Belt speed (m/min)	Belt wash water		Compressed air		Total Weight (kg)
				Water pressure (MPa)	Water quantity (m3/h)	Air pressure (MPa)	Quantity of air (m ³ /h)	
DY750	750	1.1	4-20	≥0.4	2.5	0.7	0.2	2570
DY1000	1000	1.5	4-20	≥0.4	3.3	0.7	0.2	2920
DY1500	1500	1.5	4-20	≥0.4	5	0.7	0.2	3590
DY2000	2000	2.2	4-20	≥0.4	6.6	0.7	0.2	4490
DY2500	2500	3.0	4-20	≥0.4	8.3	0.7	0.3	5520
DY3000	3000	3.0	4-20	≥0.4	10	0.7	0.3	6220

Typical material specification and technical knowledge:

Industry	Material origin and name	Moisture content of feeding material (%)	Moisture content of filtrating cake(%)	Processing capacity (kgds/h.m)
Urban sewage treatment	Mixed sludge (Early mimeograph and biochemical sludge)	95-98	68-80	150-300



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Mining and metallurgy	mining separation ore pulp	40-60	14-18	1500-3000	
Steel works	Converters dedusting sediment	55-65	20-24	1000-2000	
Coal factory	Choosing and washing coal slime	60-70	22-28	1500-3000	
Chemical industry (petrifaction)	Mixed sludge (First precipitation and biochemical sludge)	95-97	75-78	150-250	
Brewery	Biochemical sludge	96-98	75-78	80-150	
Printing and Dyeing Mill	Biochemical sludge	96-98	70-78	80-120	
Tannery	First precipitation and biochemical sludge	96-98	78-80	100-150	
Paper mill	straw pulp	First precipitation	95-97	75-78	100-130
		Mixed sludge	96-98	76-78	80-120
	wood pulp	First precipitation	94-97	65-75	200-500
		Mixed sludge	95-98	75-78	150-300
	waste paper pulp	First precipitation	95-98	70-75	300-400
		Mixed sludge	95-98	72-75	250-380



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DNY rotary drum thickening & dehydrating belt pressers



DNY rotary drum thickening/dehydrating belt pressers technical specification and dimension of belt presser:

Specification	Type	DNY-75	DNY-10	DNY-12	DNY-15	DNY-15	DNY-17	DNY-20
		0	00	50	00	00L	50	00
Belt width (mm)		750	1000	1250	1500	1500	1750	2000
Processing capacity (m ³ /hr)		4.5-7.5	6.5-10.5	7.5-12.5	9.5-16	12-20.5	15-24.5	18-30
feeding tensity (s.s.1.5-2.5%)								
Absolutly dried quantity D.S(kg/hr)		68-113	98-158	113-118	143-240	180-308	225-368	270-450
Sludge cake water content (%)		63-84.5	63-84.5	63-84.5	63-84.5	63-84.5	63-84.5	63-84.5
Service power	belt driver (CEVT)	1/2	1/2	1/2	1/2	1	1	1
	Adjusting	1/4	1/2	1/2	3/4	3/4	3/4	1



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(HP)	mixer							
	Drum concentrator	1/4	1/2	1/2	1/2	3/4	3/4	3/4
Total drainage plate under filtrating liquid		H	H	H	H	H	N	N
Dimension (mm)	L	2600	2600	2600	2700	3300	3300	3400
	W	1300	1550	1800	2150	2150	2400	2650
	H	2700	2700	2900	2900	2900	2900	3300
Foundation base size(mm)		2100*1080	2100*1330	2100*1580	2100*1830	2580*1860	2580*2110	2580*2360
Weight (kg)		1000	1210	1450	1850	2200	2450	2850

DNY rotary drum thickening & dehydrating belt pressers
DNY rotary drum thickening/dehydrating belt pressers technical specification and dimension of belt presser:

Specification Type	DNY-750	DNY-1000	DNY-1250	DNY-1500	DNY-1500L	DNY-1750	DNY-2000
Belt width (mm)	750	1000	1250	1500	1500	1750	2000
Processing capacity (m ³ /hr)	4.5-7.5	6.5-10.5	7.5-12.5	9.5-16	12-20.5	15-24.5	18-30
feeding tensity (s.s.1.5-2.5%)							
Absolutly dried quantity D.S(kg/hr)	68-113	98-158	113-118	143-240	180-308	225-368	270-450
Sludge cake water content (%)	63-84.5	63-84.5	63-84.5	63-84.5	63-84.5	63-84.5	63-84.5



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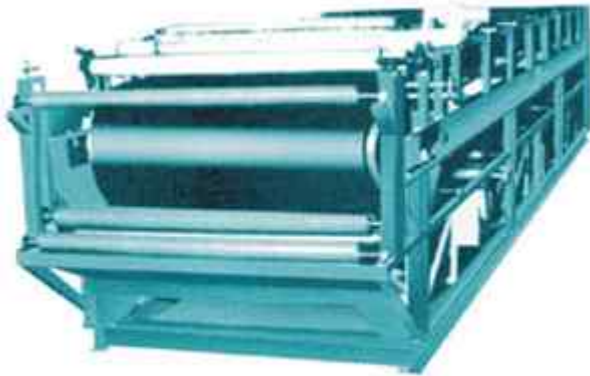
Email: toperkey@hi-toper.com

Service power (HP)	belt driver (CEVT)	1/2	1/2	1/2	1/2	1	1	1
	Adjusting mixer	1/4	1/2	1/2	3/4	3/4	3/4	1
	Drum concentrator	1/4	1/2	1/2	1/2	3/4	3/4	3/4
Total drainage plate under filtrating liquid		H	H	H	H	H	N	N
Dimension (mm)	L	2600	2600	2600	2700	3300	3300	3400
	W	1300	1550	1800	2150	2150	2400	2650
	H	2700	2700	2900	2900	2900	2900	3300
Foundation base size(mm)		2100*1080	2100*1330	2100*1580	2100*1830	2580*1860	2580*2110	2580*2360
Weight (kg)		1000	1210	1450	1850	2200	2450	2850



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DZU rubber belt type vacuum filter



DZU rubber belt type vacuum filter takes filter bag as filter medium, take full use of material gravity and vacuum suction to separate solid and liquid materials. It is adopted ring rubber belt as a vacuum chamber. The ring rubber continuously running by motor, filter cloth are layup to the rubber belt and running along with the belt, the rubber belt with friction belt create a water-tight seal. Slurry are distributed on filter cloth by distributing device When the vacuum chamber is switched on vacuum system, it will create a vacuum area on rubber belt, Filtrate liquor pass through filter cloth by horizontal grooves on rubber belt, then get together and go into the vacuum chamber by micro pore, Solid powder are holding on filter cloth, then create a filter cake. The liquid which have got into vacuum chamber be discharged by steam-water separator. Move along with the rubber belt, preformed filter cake get into washing section and suck dry section. Finale filter cloth and rubber belt are divided, the filter cake are discharged from discharging roller. The filter cloth which discharge filter cake are washed ,then can be re-used, re-access to filtrate area by a sets of supportive roller and rectify device, beginning a new cycle.

DZU Rubber belt type vacuum filter parameters:

Model	Filter area	Effective width of filter belt	Effective length of filter belt	Total length	Total width	Total height	Weight	Vacuum consumption
	m ²	mm	mm	mm	mm	mm	t	m ³ /min
500	3	500	6000	10200	1250	2070	6	12
	4		8000	12200			6.5	14
	5		10000	14200			7	16



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	6		12000	16200			7.6	20
600	4.8	600	8000	12200	1350	2070	6.8	16
	6		10000	14200			7.5	20
	7.2		12000	16200			8.2	22
	8.4		14000	18200			9.1	26
1000	8	1000	8000	12200	1750	2070	8.8	26
	10		10000	14200			9.6	28
	12		12000	16200			10.4	30
	14		14000	18200			11.1	32
1300	10.4	1300	8000	12200	2050	2070	9.8	28
	13		10000	14200			10.8	30
	15.6		12000	16200			11.5	35
	18.2		14000	18200			13.2	38
	20.8		16000	20200			15.1	40
1800	14.4	1800	8000	12200	2550	2170	10.9	32
	18		10000	14200			12.8	38
	21.6		12000	16200			15.3	40
	25.2		14000	18200			18.8	45
	30.6		16000	20200			22.5	50
	32.4		18000	22200			23.8	55
2000	20	2000	10000	14200	2750	2170	14.2	38
	24		12000	16200			17.8	42
	28		14000	18200			20.2	46
	32		16000	20200			23.6	50
2500	20	2500	8000	12200	3250	2270	14.8	40
	25		10000	14200			18.6	45
	30		12000	16200			22.2	50
	35		14000	18200			26	55
	40		16000	20200			29.8	60
3000	30	3000	10000	14200	3750	2270	22.8	50
	36		12000	16200			27.5	55
	42		14000	18200			32.5	60
3500	35	3500	10000	14200	4250	2470	31.2	55
	42		12000	16200			35.5	62
	49		14000	18200			40.2	70
4000	48	4000	12000	16200	4750	2470	39.5	70
	56		14000	18200			46.8	82
	64		16000	20200			52.6	95



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Centrifuge series



Centrifuge of up discharging, three foot , SS

Product feature and application:

SS series three foot type centrifuge is up discharging, intermittent operating centrifuge with filtration function. It is suitable for your to separate suspend liquor with solid powder ≥ 0.01 mm. The type of solid material can be granular or crystalloid. It also can dehydrate some material such as roving, textile etc. This series centrifuge has the features as simple structure, easy operation, operating sequences can be adjusted at your option, filter residue can be completely washed, solid granular can not easily broken. It is widely used in chemical, food, textile, medicine, light industry etc.



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SS series three foot type centrifuge technical parameters:

Model	Rotary drum				Separation factor	Motor power	Total weight	dimensions
	Diameter	Working volume	Loading limit	Rotary speed	$\omega^2 r/g$	KW	KG	MM
	MM	L	KG	r/min				
SS300	300	8	10	1900	819	0.75	130	800x620x500
SS450	450	20	25	1600	725	1.5	200	980x720x625
SS600	600	45	80	1450	755	3	600	1350x990x750
SS800	800	98	135	1200	640	5.5	1300	1740x1380x1000
SS1000	1000	140	195	1000	560	7.5	1500	1950x1560x1050
SS1200	1200	200	280	800	430	1.5/11	2030	2370x1600x1000
SS1500	1500	360	400	650	304	15	4060	3640X1850X1100



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Three feet lifting filter bag discharge centrifuge, SD

SD series centrifuge is a kind of improved centrifuge base on SS series three feet up discharge centrifuge. It retain the advantage of SS series centrifuge, also reduce labor intensity obviously, quickly discharge, easily clean the filter bag, increase the production efficiency, Avoid contamination and throw of the finished product caused by artificial discharging. SD series centrifuge is fix for that suspension liquor of high loose, moderate size, difficult to compress, need washing and low viscosity. It is widely used in chemical industry etc.

SD series centrifuge structure & principle:

The drum runs with high-speed by motor, materials enter the drum from top feed pipe ,then run forward to the shell of the drum by centrifugal force, in this case liquor pass through the sieve pore and sieve pore of the shell, then be



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discharged. Then solid be hold in the drum. After the separation ,open the machine, loosen the lock blocks on lip ring, and suspend the lip ring together with the filter bags containing cake to discharge. Loosen the grip, make sure the filter bag open, then the filter cake will automatic drop down.

SD series centrifuge technical parameters :

Model	Rotation drum					Separating factor	Motor power	Total weight	dimensions
	diameter	height	working volume	Loading limit	Rotation speed				
	MM	MM	L	KG	r/min	ω^2r/g	KW	KG	MM
SD800	800	360	90	120	1200	860	7.5	1350	1740x1380x1100
SD1000	1000	400	140	150	1000	640	11	2300	1950x1560x1200
SD1200	1200	450	230	240	800	600	18.5	3400	2370x1600x1200
SD1500	1500	450	360	400	600	500	22	5000	2645x2221x1700

Centrifuge of up discharging , three foot, clean series SSB, SB



1. Reasonable structure sanitation dead can be effectively cleared. The hardware is smooth, surface be polished. Outer hardware fastener and rotation drum are adopted to stainless steel. Outer shell is open-top type, then radically clean the inside drum.

2. Open the top, there are feeding pipe, wash pipe, observation mirror and light.



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3. Simple structure, easily maintenance.
4. Strongly universal wide applied. It can be used in separating granulated suspension, also can be used in separating fiber.
5. It uses starting device of frequency changer, steadily start, the separated factor can be adjusted. noncontact dynamic braking system; Anti-static belt driving; Sealing structure, the seal material is silicone rubber or fluoro-rubber. It can match your explosion-proof demand.
6. Assembling nitrogen protection system, make sure to separate the inner chamber of centrifuge from outside air.
7. The grain is unbreakable.

Device for choice:

1. Cleaning spray system.
2. Nitrogen protection system.
3. Outer hardware is stainless steel.
4. According to customers' requirement for anticorrosion, there are some material are supplied for option (SUS304,316,316L,321 and titanium).
5. Base and shock absorber.

Driving and braking:

1. Explosion proof motor (general motor) + frequency changer + dynamic braking
2. speed control electromagnetic motors + frictional manual braking device

Technical dater

Item	Model				
	SSB/SB600	SSB/SB800	SSB/SB1000	SSB/SB1200	SSB/SB1250
Drum diameter(MM)	600	800	1000	1200	1250
Wall thickness of drum (MM)	5	6/8	8/10	10/12	12
Drum volume (L)	45	100	140	280	310
Max load (KG)	75	135	200	380	420
Rotation speed (r/min)	1500	1200/1500	1000/1200	800/1050	960/1050



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Separating factor (Kw)	860	645/1006	560/806	620/740	645/770
Motor power (kw)	3	5.5/7.5	7.5/11	11/15	15/18.5
dimension (L×W×G)MM	1410x1140x800	1680x1300x980	2000x1550x1200	2260x1760x1300	2260x1765x1350
Weight (KG)	≈980	≈1500	≈2000	≈3000	≈3200

SGZ type three foot type automatic scraper next unloading centrifuge
Product feature and application



SGZ series centrifuge is a automatic centrifuge with three foot, scraper bottom discharge, intermittent operation, process control. It can be setup process according to your requirement, It will finish feeding .separating, washing, Dehydration, discharging process by hydraulic and electrical control system. It can be applied in far, close operation. This machine is adopted narrow scraper to low discharge. So this machine is not only used in separating suspension with 0.05-0.15mm solid grain, but also be used in separating the material which is strong thermal sensitivity, not allowed to be broken, operator access is



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difficult. This machine has some features as high automation, large capacity, good separation, steadily working and easily operation.

Order notice

Aiming at different separation requirements , We design the different models for the customer to choose, Thus the customer when placing an order to the following circumstance can make confirmation:

Material quality: Part contacting materials can be divided into stainless steel, lining rubber lining the titanium steel plastic etc.

Drive mode: General asynchronous electric cars, flameproof asynchronous electric cars, electromagnetic speed or frequency control.

Technical data

Model	Rotation drum				Separation factor ($\omega^{2r/g}$)	Motor Power (Kw)	Total weight(Kg) (Kg)	dimension (mm)
	Diameter (mm)	Working volume (L)	Loading limit (Kg)	Rotation speed (r/min)				
SGZ800	800	100	140	1200	644	7.5	3000	1900x1500x1900
SGZ1000	1000	150	200	1080	560	11	4000	2300x1900x2300
SGZ1250	1250	280	380	900	566	18.5	4700	2587x1900x2300



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Filter series



1 Mechanical filter:

Mechanical filter is one kind of pretreatment equipment used in industrial water treatment. The raw water of industrial water treatment usually is city tap water, including some residual impurity of fine particle and suspended matter. These residual impurity will damage main equipment of electro dialyzer, reverse-osmosis equipment, ion exchange device in water treatment.

The role of mechanical filter

When raw water goes through mechanical filter, due to the action of contact flocculation, adsorption and storage by filter medium (such as quartz sand or active carbon etc), the impurity is adsorbed and retained. The mechanical filter can reduce the turbidity and residual chlorine of raw water.

Mechanical filter classification

The diameter of mechanical filter is from 300 mm to 3000 mm, according to diameter, it is divided into two types, big filters and small filters. The diameter is less than 1000 mm is small filter, diameter is over 1000 mm is big filter. The output of this kind of filter is 0.5-80t/h.



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2 Diatomaceous filter



This filter is introduction international advanced technology, used 1Gr8Ni9Ti high grade stainless steel material, and used diatomaceous to be filter aid. This machine make us stride forward to advanced filter process from antiquated pulp filter process. It has some features as good looks, easy operation, low cost filter, high efficiency, 99.8% clarity. If you operating properly, it even can filt colibacillus coli. It widely used in water treatment of white spirit, yellowwine, juice. We will do our best to help you to get good result in filter process.

Technical data

Model	Overall dimension (mm)	Filter area (M ²)	Quantity of filter disc (Pc)	Valve size	Theory Flow (base on white wine)	Working pressure (Mpa)	Pump



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WK500-A	2450x750x850	15.9	38	Dg32	13-15t/h	≤0.3	YL20-25
WK500-B	1950x750x850	8.9	20	Dg32	8-10t/h	≤0.3	YL20-25
WK400-A	2350x680x800	9.8	38	Dg32	9-12t/h	≤0.3	YL10-25
WK400- I	1840x680x800	5.1	20	Dg32	6-8t/h	≤0.3	YL5-25
WK330- II	1700x600x750	3.4	20	Dg32	3-5t/h	≤0.3	YL5-25
WK330-III	1600x600x750	2.5	15	Dg32	2-4t/h	≤0.3	YL5-25
WK250	1100x350x450	2	20	Dg32	1-3t/h	≤0.2	YL3-20
WK220	900x300x400	1	15	Dg32	1-2t/h	≤0.2	YL3-20



3 Multi-layer stainless steel frame filter

It is used in separating all kinds of suspension, and widely used in medicine, food, chemical, environmental protection .water treatment, electronic, textile and plating industry.

Operation principle /design feature

The suspension is delivered to each sealing filter chamber by pump, under the pressure, filtrate pass the filtering layer and screen filter or other filter material, be discharged by liquid outlet. The filter residue is retained in the steel frame and come into being filter cake.



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Characteristics:

This machine is made by SUS304 or SUS316L high grade stainless steel with corrosion resistance. Filter plate is designed screw structure. You can change different filter material according to different filter medium and productive technology. You also can increase or decrease the quantity of layer according to your filter flow. When it is working, it filtrates with pressure seal, no lose of liquid and good clarify. You can customize multistage filter device, first stage is rough filter stage, secondary is fine filter stage, then can saving time also increase your filter ratings. The sealing part of this machine is silica gel seal with high-temperature resistance, non-poisonous and no leakage.

Technical parameters:

Model	Layer	Filter area(m ²)	The size of filter material(mm)	Filter medium (μm)	Filtration pressure (Mpa)	Water flow (t/h)	Motor power (kw)	Overall dimension (mm)
DZCR-100	10	0.078	φ100	0.8	0.15	0.8	0.55	600x300x600
DZCR-150	10	0.17	φ150	0.8	0.15	1.5	0.75	650x380x650
DZCR-200	10	0.34	φ200	0.8	1.5	2	1.1	650x400x700
DZCR-300	10	0.7	φ300	0.8	0.15	4	1.1	700x500x800
DZCR-400	10	1.25	φ400	0.8	0.15	6	1.1	900x600x1000
DZCR-400	16	2	φ400	0.8	0.15	9	1.5	1000x600x1000
DZCR-400	20	2.5	φ400	0.8	0.2	10	1.5	1100x600x1000
DZCR-400	32	4	φ400	0.8	0.3	13	2.2	1320x600x1000
DZF-200	10	0.4	200X200	0.8	0.15	3	1.1	650x380x650
DZF-300	10	0.9	300X300	0.8	0.15	6	1.1	700x500x800
DZF-400	10	2	400x400	0.8	0.15	10	1.5	900x600x1000
DZF-400	20	3	400x400	0.8	0.15	12	1.2	1100x600x1000
DZF-400	26	4	400x400	0.8	0.2	15	2.2	1150x600x1000
DZF-400	32	5	400x400	0.8	0.2	18	2.2	1200x600x1000
DZF-400	38	6	400x400	0.8	0.3	21	2.2	1300x600x1000
DZF-400	44	7	400x400	0.8	0.3	23	3	1350x600x1000



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4 Single bag filter



Single bag filter is a kind of new filter. There are some filter bag supported by Basket Stay, liquor get into filter from inlet, past through the filter bag, then get out from the outlet. The residues are intercepted by filter bag. You can repeat to use it by change the filter bag. Bag filter can be divided into single bag filter, multi bag filter, sandwich filter and plastic rubber bag filter.

The bag filter has feature as :

1. large capacity , small volume.
2. convenient and efficient to change filter bag.
3. Small chance of side leakage.
4. Filter bag can undertake big working pressure.
5. The accuracy of filter bag is 0.5 μ m.
6. Wide range of bag filter applications, flexible usage, diverse installation.

The specification of single bag filter:

Model	Filter area (M ²)	Max .flow (M ³ /h)	Working pressure (Mpa)	Volume(L)	Way connected of inlet and outlet
01#	0.25	20	0.5	8	φ50
02#	0.5	40	0.5	17	φ50
04#	0.2	18	0.5	3.8	φ25



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5 Multi bag filter



Suitable for large flow filtering. From 2 bags to 24 bags, the specification is well-found, import and export flange diameter is 3-18 ", standalone maximum flow is 90-1000M³/h. It can provide fast open-cycle design, the filter bag change very convenient. Also applies to want to use a long time to change the filter bag behind the occasion.

Specification of multi bag filter

型号	滤袋尺寸编号	滤袋数量	过滤面积 (M ²)	进出口径 (mm)	工作压力 (Mpa)	最大流速 M ³ /h
DL-2P2S	2	2	1	φ50	0.5	70
DL-3P2S	2	3	1.5	φ50	0.5	100
DL-4P2S	2	4	2	φ100	0.5	150
DL-5P2S	2	5	2.5	φ150	0.5	175
DL-6P2S	2	6	3	φ200	0.5	210
DL-7P2S	2	7	3.5	φ200	0.5	245
DL-8P2S	2	8	4.0	φ250	0.5	280
DL-10P2S	2	10	5.0	φ250	0.5	350
DL-12P2S	2	12	6.0	φ300	0.5	420
DL-14P2S	2	14	7.0	φ300	0.5	490



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DL-16P2S	2	16	8.0	φ300	0.5	560
DL-18P2S	2	18	9.0	φ350	0.5	630
DL-20P2S	2	20	10.0	φ350	0.5	700
DL-22P2S	2	22	11.0	φ350	0.5	770
DL-24P2S	2	24	12.0	φ350	0.5	840

6 The bag filter has feature as :



1. big capacity , small volume.
2. convenient and efficient to change filter bag.
3. Small chance of side leakage.
4. Filter bag can undertake big working pressure.
5. The accuracy of filter bag is 0.50.5μm.



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6. Wide range of bag filter applications, flexible usage, diverse installation.

Sandwich bag filter

Sandwich-like bag filter for double structure, interlayer can improve the steam or thermal fluid temperature, prevent fluid viscous liquid solidify, improve the filtration speed of the next procedure, or meet the requirements of temperature.

The specification of sandwich filter

Model	Filter area (M ²)	Max flow rate (M ³ /h)	Working pressure (Mpa)	Way connected of inlet and outlet	dimension						
					A	B		C	D	E	F
						Max	Min				
DL-1P 1J	0.25	20	0.5	φ50	830	847	723	628	535	455	260
DL-1P 2J	0.5	45	0.5	φ50	1750	1217	998	998	905	825	260
DL-1P 4J	0.1	10	0.5	φ25	698	611	488	488	404	354	150





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7 Bag type filter is a kind of new filter. There are some filter bag supported by Basket Stay, liquor get into filter from inlet, past through the filter bag, then get out from the outlet. The residue is intercepted by filter bag. You can repeat to use it by change the filter bag. Bag filter can be divided into single bag filter, multi bag filter, sandwich filter and plastic rubber bag filter.

The bag filter has feature as :

1. big capacity , small volume.
2. convenient and efficient to change filter bag.
3. Small chance of side leakage.
4. Filter bag can undertake big working pressure.
5. The accuracy of filter bag is 0.50.5µm.
6. Wide range of bag filter applications, flexible usage, diverse installation.

Plastic bag filter is made of 100% due to PP material with PP material excellent chemical properties make plastic filter function meet many chemical alkali liquid filtration application, a injection molding of the shell, no juncture, no dead Angle, specifications for the high quality and high precision Efficiency, economic and practical fine products.

The specification of plastic rubber bag filter

Model	Operative temperature (°C)	Max flow rate (M ³ /h)	Working pressure	Way connected of inlet and outlet
DZ100PP	43°C/110F	10	0.6Mpa	2"

8 DZYL stainless steel pressure leaves filter product summary

Stainless steel pressure leaves filter is an efficient, energy saving, closed the accuracy of the work of clarification and filtration equipment, machine is widely used in chemical, pharmaceutical, oil, beer, liquor, wine, rice wine, fruit juice, gelatin and other similar liquids filter.

Main features:

1. Machine running smooth with reliable performance, big filter capacity and high filter effects.
2. Case compress, filter leaves mounted vertically, fewer moving parts, easy maintenance.
3. Compact structure, big filter area, small footprint.
4. Case, filter leaves, all parts in contact with the materials of stainless steel to enhance its corrosion resistance and service life, and meet the requirements of production of pharmaceutical and food hygiene.



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5. The surface of filter leaf structure with a special fine mesh is refined, in the middle, there are the support network, filtering and high precision.
6. The filtering process is completed in closed containers, no run, drip, leak phenomenon, therefore, the working environment is clean, it does not waste raw materials.
7. Cleaning, slag and other simple operation, low labor intensity.
8. Good washing effect, to wash the filter cake in the closed conditions, subject to useful materials, makes high recovery rate.
9. Cleaning sector is generally positive, but also according to user requirements to achieve the function of backwash and purge. Rapping device can be set to ensure the residue completely removable.
10. Quick-open institutions, user-friendly operation.

Technical parameters

Model	Filter area (M ²)	Filter capacity (t/h)	Max. working pressure(Mpa)	Inner diameter(mm)	Filter leaves quantity
DZYL3-N	3	2-3	0.6	500	11
DZYL5-N	5	3-5		600	9
DZYL8-N	8	5-8		800	11
DZYL12-N	12	8-12		1000	11
DZYL16-N	16	12-16		1000	15
DZYL25-N	25	16-22		1200	17
DZYL30-N	30	22-28		1200	19
DZYL50-N	50	30-40		1400	19
DZYL60-N	60	50-60		1600	22
DZYL80-N	80	60-90		1800	25
DZYL100-N	100	100-130		2000	25

9 DZMY confined pressure filter drying washing machine together

Product summary

DZMY closed pressure filter drying integrated washing machine, have good adaptability to a variety of materials, especially for difficult to filtrate the materials of slurry and the explosive, toxic, volatile, pollution. Collect filter, beating washing and drying in one operation. It is a kind of ideal solid-liquid separation equipment used in the pharmaceutical, pesticide, chemicals, dyes industry and other industry. It is widely used in many separation of toxic, harmful, pollution etc.

Main feature:

1. multi-function, collect filter, beating washing and drying in one operation.



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2. Confined operations, in particular for use in toxic, hazardous materials and to avoid contamination.
3. PLC automatic control, high degree of automation.
4. Filter disk block modular design, each unit can be replaced individually, independently of each other.
5. Compact structure, convenient installation, operation and maintenance, small footprint.
6. No vibration and noise, smooth running and reliable.
7. Equipment meet the GMP standard, with CIP cleaning and washing thoroughly.

Technical parameter:

Model	Vessel diameter(mm)	Filter area (M ²)	Max slurry volume (M ³)	Max. cake height(mm)	Motor power(Kw)
DZMY600-N	φ600	0.25	0.2	200	2.2
DZMY8001-N	φ800	0.5	0.48	250	4
DZMY1000-N	φ1000	0.75	0.8	250	4
DZMY1200-N	φ1200	1.0	1.0	300	5.5
DZMY1400-N	φ1400	1.5	1.6	400	7.5
DZMY1600-N	φ1600	2.0	2.4	400	11
DZMY2000-N	φ2000	3.0	4.5	500	15
DZMY2400-N	φ2400	4.5	6.0	500	18.5
DZMY2800-N	φ2800	6.0	6.0	500	22

10 Stainless steel sieve filters

Stainless steel sieve filters. and various types of filter matching using, in order to achieve the user to jilt requirements the filtering effect. Design conforms to the pharmaceutical industry of GMP. This filter is divided into liquid filtration and gas filter two types.

Liquid filtration specification

Theoretical Flow	Equipped with filter		Inlet and outlet	Linkage		dimension(mm)				
	Quantity	length		Outer diameter	Method	Specification	A	B	C	D
0.3-0.5	1	10"	25	Quick	φ50.5	600	400	80	100	220
0.5-1		20"				800	650			
1-1.5		30"				1050	900			
1-1.5	3	10"	32	Quick	φ50.5	650	450	120	200	320



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1.5-3		20"				900	700			
2.5-4.5		30"	34			1150	950			
1.5-2.5	5	10"	32	Quick	φ50.5	650	450	120	220	350
3-5		20"				900	700			
4.5-7.5		30"	38			1150	950			
5-7	7	10"	38	Quick threaded flange	φ50.5 G1" DN40	950	700	150	250	400
6-10		20"	48			1200	950			
8-14		30"				1450	1200			
6-8	9	20"	48	Quick threaded flange	φ64 G1.5" DN50	1000	700	150	300	450
8-12		30"				1250	950			
12-15		40"				1500	1200			
6-12	12	20"	48	Quick threaded flange	φ64 G1.5" DN50	1100	800	200	350	500
12-18		30"	57			1350	1050			
16-24		40"				1600	1300			
8-15	15	20"	76	Threaded flange	G2.5" DN65	1100	800	200	400	550
18-25		30"				1350	1050			
20-30		40"				1600	1300			
12-21	21	20"	89	Threaded flange	G3" DN80	1150	800	200	450	600
21-31		30"				1400	1100			
27-42		40"				1650	1300			



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11 Titanium rod filter



The shell is made by 316L stainless steel, inner filter core is made by Ti filter tube. It is heat resistant, high pressure resistant, strong acid and alkali



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resistant, the filter core can be used repeatedly. It is widely used in food and beverage, pharmaceutical, chemical, liquid-solid separation, etc., in the pharmaceutical industry, particularly for large infusion injection production line in the decarburization process.

Technical parameter of titanium rod filter:

Filtration rating: 3-80 μ m

The length of the filter core: 300 mm

Air permeability: 5-600m³/M².hh.kpa

Working pressure: 0.1-0.4Mpa

Specification of titanium rod filter:

Model	Specification	dimension	Theoretical numerical aperture (μ m)	Theoretical Flow (t/h)
DZC	1 core	180x850	0.1-30	1
DZC	3 core	280x850	0.1-30	1
DZC	5 core	380x850	0.1-30	2
DZC	7 core	440x850	0.1-30	3
DZC	9 core	440x850	0.1-30	3.5
DZC	12 core	540x850	0.1-30	4.5
DZC	15 core	540x850	0.1-30	6
DZC	17 core	620x850	0.1-30	7

12 Microporous membrane of s.s.steel filter





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Single stainless steel microporous membrane filters applied to pharmaceutical, food and beverage plants, hospitals and laboratories, factories, mines and small flow filter. It is a kind of liquid filter to clarify and antibacterial ideal terminal equipment.

Double layer direction filter of s.s.steel

Stainless steel double filtering one-way filters filter on the single-layer based on a layer of filtration layer added. When using in the upper put aperture can be large, liquid filtration material of high precision filtration, after two, the result is better.

Specification of single layer direction filter of s.s.steel

Model	Specification	Working pressure (kg/cm)	Microporous membrane filter (μ m)	Water flow (t/h)	Unit
DZA	φ100	0.5-1	0.8	0.067	set
DZA	φ150	0.5-1	0.8	0.15	set
DZA	φ200	0.5-1	0.8	0.2	set
DZA	φ300	0.5-1	0.8	0.4	set
DZA	φ400	0.5-1	0.8	0.6	set

Specification of double layer direction filter of s.s.steel

Model	Specification	Working pressure (kg/cm)	Microporous membrane filter (μ m)	Water flow (t/h)	Unit
DZA	φ150	0.1	0.8	0.15	set
DZA	φ200	0.1	0.8	0.12	set
DZA	φ300	0.1	0.8	0.124	set
DZA	Organic filter	φ25	φ50	φ100	set

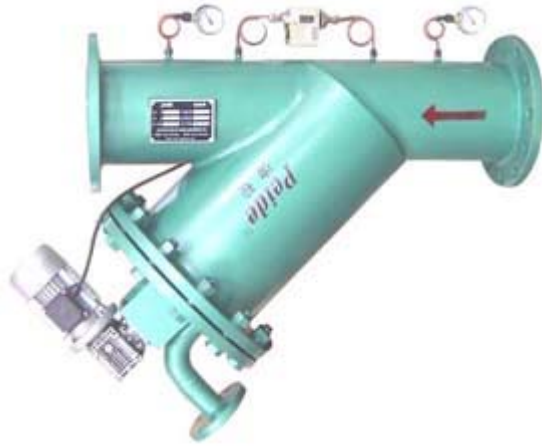


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13 Intelligent automatic

Function and purpose

Intelligent automatic filter is used to a variety of water supply systems, especially in continuous operation without stopping. It can filtrate such water with a variety of impurities. The system is designed to ensure safe and reliable to operate. It is the ideal filter import substitute, and fully reach the targets of the same level of imports.

Structures and principles

The internal structure of Automatic filter is made by pig bristles brush or stainless steel wire and stainless steel sieve and transmission component. It will automatically cleans by the drive motor and the sewage valve, the operation mode is automatically run (also can be manual operation), with auto discharge function of time. The automated part is adopted the world's most advanced and most reliable programmable logic controller PLC. When the water through the filter, mechanical impurities are blocked by sieve, when the mechanical impurities in sieve surface through increased, the differential pressure is closed to 0.05Mpa, Pressure-type pressure switch discrete signal, while PLC is give order, drive motor will starts, open the drain valve, The impurities in the sieve are brushed down by rotating brush, then be discharged from sewage outlet. The whole process without personnel to operate .without stop the machine, at the same time, this machine also has manual functions, make sure the safe of effluent in any time.

Features:

1. Automatic cleaning electrical equipment
2. Accuracy can be 3500 -200 μ m
3. Cleaning is simple: Stainless steel brush
4. Corrosion: Phosphating processing, steel coated resin in vitro upon to the request of seawater corrosion-resistant stainless steel shell or body

Scope

Cooling water, wastewater, process water, water supply systems



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Applications

Iron and steel industry and metallurgy industry, paper industry, chemical industry, plastics industry, irrigation and other types of water systems.

Specification:

Y-series intelligent automatic filter

Model	Inlet & outlet				Sewage draining exit					Max. flow (t/h)	Motor (Kw/r/min)	
	D	D1	D2	N1-D3	d	d1	d2	N-M	L1			
DZ-2Y	φ50	2in	φ125	φ165	4-φ18	φ150	φ285	φ240	8-M20x90	300	19	0.18/1400
DZ-2.5Y	φ65	2.5in	φ145	φ185	4-φ18	φ150	φ285	φ240	8-M20x90	300	28	0.18/1400
DZ-3Y	φ80	3in	φ160	φ200	8-φ18	φ150	φ285	φ240	8-M20x90	300	50	0.18/1400
DZ-4Y	φ100	4in	φ180	φ220	8-φ18	φ207	φ340	φ295	8-M20x90	300	80	0.18/1400
DZ-5Y	φ125	5in	φ210	φ250	8-φ18	φ260	φ395	φ350	12-M20x95	350	125	0.18/1400
DZ-6Y	φ150	6in	φ240	φ285	8-φ18	φ309	φ445	φ400	12-M20x100	350	180	0.18/1400
DZ-8Y	φ200	8in	φ295	φ340	4-φ18	φ367	φ505	φ460	16-M20x110	525	320	0.18/1400
DZ-10Y	φ253	10in	φ350	φ395	12-φ18	φ406	φ565	φ515	16-M24x115	650	490	0.18/1400
DZ-12Y	φ305	12in	φ400	φ445	12-φ18	φ406	φ565	φ515	16-M24x115	680	710	0.18/1400
DZ-14Y	φ355	14in	φ460	φ505	16-φ18	φ460	φ615	φ656	20-M24x120	740	970	0.18/1400

Vertical intelligent automatic filter

Model.	Inlet & outlet				Sewage draining exit					Max. flow (t/h)	Motor (Kw/r/min)	
	D	D1	D2	N1-D3	d	d1	d2	N-M	L1			
DZ-2Y	φ50	2in	φ125	φ165	4-φ18	φ150	φ285	φ240	8-M20x90	300	19	0.18/1400
DZ-2.5Y	φ65	2.5in	φ145	φ185	4-φ18	φ150	φ285	φ240	8-M20x90	300	28	0.18/1400
DZ-3Y	φ80	3in	φ160	φ200	8-φ18	φ150	φ285	φ240	8-M20x90	300	50	0.18/1400
DZ-4Y	φ100	4in	φ180	φ220	8-φ18	φ207	φ340	φ295	8-M20x90	300	80	0.18/1400
DZ-5Y	φ125	5in	φ210	φ250	8-φ18	φ260	φ395	φ350	12-M20x95	350	125	0.18/1400
DZ-6Y	φ150	6in	φ240	φ285	8-φ18	φ309	φ445	φ400	12-M20x100	350	180	0.18/1400
DZ-8Y	φ200	8in	φ295	φ340	4-φ18	φ367	φ505	φ460	16-M20x110	525	320	0.18/1400
DZ-10Y	φ253	10in	φ350	φ395	12-φ18	φ406	φ565	φ515	16-M24x115	650	490	0.18/1400
DZ-12Y	φ305	12in	φ400	φ445	12-φ18	φ406	φ565	φ515	16-M24x115	680	710	0.18/1400
DZ-14Y	φ355	14in	φ460	φ505	16-φ18	φ460	φ615	φ656	20-M24x120	740	970	0.18/1400



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14 Reverse osmosis system

With a certain pressure, isolate solvent from the solvent by reverse osmosis system. Because it is contrast with the natural infiltration, so called reverse osmosis. It can remove the filtrate in the ion range and small molecular weight organic compounds, such as bacteriological, virus, heat and so on. It has been widely used in sea water or brackish desalination, electronic, medical pure water, distilled water, space, water production, also used in biology, medicine and engineering.

Characteristics:

1. Under the conditions of phase transition does not occur at room temperature, heat-sensitive material separation, concentration



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2. A wide range of reverse osmosis membrane separation technology to remove impurities

3. Desalination rate higher

4. Equipment is simple, easy to maintain

Applications

1. Preparation of ultra-pure water

2. Sea water, brackish water desalination

3. plant(drug) products of animal impurities separate

4. Wastewater recycling

5. Antibiotic concentration

6. Fruit and vegetable juice concentrate

7. Sugar concentration

8. Chemical process concentration, separation, purification and distribution of water preparation

9. Boiler feed water desalination water softener

10. Papermaking, electroplating, printing and dyeing industry, water and wastewater treatment.

Filter material series





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Filter plate series

Filter plate is mainly used for filter process with shortened filter cycle, high solid rate and improved filtering effects as the latest and most practical new type filter plate. The plate and frame filter press, chamber plate filter press and membrane plate filter press produced by the company are incorporated with the filter plates in the following material: modified enhanced polypropylene filter plates, glass fiber polypropylene filter plates, TPE membrane filter plates, rubber membrane filter plates, polypropylene membrane filter plates, cast iron filter plates, stainless steel filter plates, etc.

The feeding modes can be middle feeding, corner feeding and upper middle feeding. Users can select filter plates in different materials according to their requirements in production process.

Filter cloth





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We customize all kinds of filter cloth according to all requirement of filtration different material, such as polyester, polypropylene, vinylon, cotton, nylon, all kinds of industrial fabric, and all kinds of stainless steel .Filter cloth is widely used in smelting, chemical, pro-environment, pharmacy, sugar, petroleum, ceramic, food, miming and aerospace industries.

Introduction of filter material and main performance

Product Performance	Terylene	Nylon	polypropylene	vinylon
Acid resistance	Fine	Worse	Fine	Worse
Alkali resistance	weak base	Fine	Fine	Fine
Braking strengthen (g/d)	4.3-9	4.5-9.5	4.5-9	4-10
Extension at break (%)	20-50	20-40	18-35	12-26
Softening point (°C)	238-240	180-235	140-160	220-230
Fusing point (°C)	255-260	215-260	165-173	not obvious
Specific gravity	1.38	1.14	0.91	1.26-1.30
Chemical name	poly ethylene terephthalate resin	polyamide	polypropylene	polypropylene



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Filter bag corporative technique



Heat melting: Our company adopt advanced Hot-melt bonding technology, make sure filter bag has best bonding strength, prevent leakage, with Sync-Ring technology, develop the appliance of filter bag to high grade.

Stitching: We sew the filter bag strictly. Our filter bag is durable .Pure sewing thread excluding lubricating ingredients such as Silicone Oil, avoid secondary pollution exist in general sewing filter bag. Process treatment: Filter bag are made by senior cloth in clean surrounding , avoid secondary pollution bring by itself. The filter bag which made by non-woven fabrics, the bag surface is singed and calendered, which can avoid secondary pollution by deciduous fiber.

Filter bag of non-woven fabric

Main product as follow:

Polypropylene :Acid and alkali resistance, temperature is 90°C,non-woven fabric, filter range is 0.5-600μm.

Polyester: Alkali resistance, solvent resistance, temperature is 160 °C,non-woven fabric, filter range is 0.5-600μm.

Screen filter:

Surface filtration with absolute accuracy, filter efficiency is 100%.



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Main product as follow:

Nylon: Acid resistance, solvent resistance, temperature is 150°C, single, multi-fiber web, absolute filtration accuracy is 5-1200µm.



Stainless steel sieve: absolute filtration, heat and pressure resistance, repeatedly washed and very durable. Absolute filtration accuracy is 25-1200µm. Option material is 304SS and 316SS.

Multi-efficient filter bags

Layered intercept assembled by polypropylene and polyester, can achieve absolute depth filtration. It can be 2-32 layers according to your requirement. Plus a protect layer of nylon or polyester, can effectively intercept the non-woven fabric, avoid secondary pollution. The accuracy is 0.5µm, efficiency is 99%.

Special filter bag

Oil absorption bag: made of non-woven fabric and oil absorption material, has filter and oil absorption function. Active carbon filter bag: effectively suck except pigment and smell

filter element

(PTFE) filter element

The filter medium for ptfе. Fold-down filter layer, increase the pollutant carrying quantity, improve service life, each part of hot sealing all USES adhesive welding technology.

Main feature



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Excellence performance, with widely chemical suitability and biological Safety, and the heat control index meet the USP of America.

It has two types of hydrophobic and hydrophilic

Hydrophobic: It is used in gas filtration, achieve requirement of asepsis, large amount, heat resistance, acid and alkali resistance and wide chemical suitability. It is used in filtrating fermentation tank, carbon dioxide, nitrogen and compressed air etc. When it is used in filtrating gas, gas entrapment of over 0.02 μ m can be 100%.including all bacteria etc.

Hydrophilic: It is used in filtrating liquor to asepsis wide chemical suitability, strong acid and strong alkali resistance, ozone intensity.

Apiary filter element

Hive type filter is by textile fibers in porous skeleton precision coil, control filter layer winding density and filter hole made by different shape filtration precision of filter

Main feature

The outer diameter of filtration pore is big but inner diameter is small. It can effectively remove the suspension matter, particulate etc.

It has high load-bearing capacity of residue.

It can undertake high filter pressure.

Filter core has good compatible.

SFPP filter element

This filter core is adopted nontoxic and inodorous polypropylene material, it is molded to tubular filter core by mechanical spray, traction.

Main feature

It is dense and uniform aperture. High filter efficiency .Due to the particle will occur phenomenon of "bridging" .

Because the particle is less than aperture be intercepted, then the filter efficiency over 98%.

This filter core has feature of high clean rating, non-pollution, corrosion resistance and high strength. When the pressure difference of inlet and outlet is 0.4MPa, the filter core doesn't distort.

It is cheap and repeatedly used, reduce the cost.

Polypropylene Folding filter element



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Fold-down polypropylene is an advanced and extensive use fixed type depth filter element, all of the structural material made of pure polypropylene. Filter core media with polypropylene fiber membrane thermally dissolved, do not use surfactants or adhesives, products have wide adaptability, Nominal filter depths range from 0.10 μ m-60 μ m, membrane will not affecting the filtering accuracy along with feed pressure fluctuations.

Main feature

Low dropout, high throughput can be repeatedly washed, long life, high filtration precision, low-cost, especially for pre-filter and clean filter. It is good alternatives of the wound, cotton cake and board and other non-fixed filter. Have very extensive chemistry adaptability. Cover edge with hot-melt seam welding and ultrasonic welding process, firmly and without the release of contaminated products.

Structural materials achieve the U.S. Pharmacopoeia Class VI test requirements of plastic bio-security.

Especially peculiar hydrophilic domestic-market-oriented properties, widely used in all kinds of liquids and gases filtering.



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PES filter cartridge

PES filter only use the core media and polypropylene support layer and the framework: Adopt the side seam welding and ultrasonic welding. No adhesive, no shedding.

Main feature

It is a foldable hydrophilic sterile filter, with total membrane area of more than 80% rate and a unique micro pore geometry .The adsorption act on microbial agents and the protein is lower than the nylon membrane and cellulose acetate membrane products is 100% integrity tested before leave factory, achieve the United States HIMA bacterial closure experiments. All components in the biological safety achieve the United States Pharmacopoeia requirement of Edition21 class6.

Reduce the production time, cost savings, reduced the frequency of change filter core, reduce he probability of secondary pollution.



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Nylon membrane filter element

Nylon membrane filter medium is the nylon membrane with filter support layer, cover, and both inside and outside tube is polypropylene welding: a unique hot-melt method, no adhesives no foreign material off.

Main feature

Membrane is hydrophilic, does not require pre-wetting, uniform pore size, high strength, able to ensure an effective interception capability. Filter core is 100% of the overall integrity testing, chemical incompatibility, and can be resistant to H₂O₂ concentration of 50% and 1.6% bleach (800ppmNaoci).



Titanium rod filter core

Titanium rod filter is used industrial high-pure titanium powder (99.6%, 0.4% of titanium: nitrogen, hydrogen, iron, manganese, etc.) as raw material, be screened, after cold isostatic pressing, it is sintered by high temperature, high vacuum porous, then being titanium filter elements. Because of its high-tech materials composed and special molding process, it has a unique high performance

Characteristics:

1. Uniform structure, narrow pore size distribution, high separation efficiency
2. High porosity, filtration resistance, permeability and high efficiency
3. High temperature, generally 280 degrees below the normal use
4. Chemical stability, acid and alkali resistance, have antioxidant properties
5. No particle shedding, not to liquid form secondary pollution, meet the GMP requirements of food hygiene and pharmacy
6. Mechanical properties, and can filter press can be filtered, a simple
7. Low pressure, small size, traffic flow



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8. Anti-microbial ability, not with the micro-organisms plays a role
 9. Molding process is good, the overall length of up to 1000 mm without welding
 10. Online renewable, easy to clean, so for long life (typically several times the membrane filter core). Its unique properties of titanium filter, can be widely used in the pharmaceutical industry, water treatment industry, food industry, chemical industry, petroleum industry, metallurgical industry and gas purification. Is a broad prospect of new materials.

Size

Diameter: $\phi 20$, $\phi 25$, $\phi 30$, $\phi 35$, $\phi 40$, $\phi 45$, $\phi 50$, $\phi 60$

Length: 5" 10" 20" 30" 40" (We can make big scale filter core according to your requirement)

Filtration rating :0.3 μm 0.45 μm 1 μm 3 μm 5 μm 10 μm 20 μm



Stainless steel filter core

Five layer stainless steel sintered filter networks, filtering accuracy of 0.5-200 μm , its dimensions and processed according to user requirements.

Main characteristics

1. Materials with high strength, no need to increase support structure
2. There is no material off
3. The temperature range is wide
4. High corrosion resistance, easy to damage
5. Particularly easy to clean, long life
6. Filter rate (μm 2、 5、 10、 20、 40、 50、 75、 100、 150、 200、 300
7. Dimensions can be customized. Stainless steel filter main purposes: for polyester, oil, pharmaceutical, food and beverage, chemical products, filters, also used such as water and air filtration media



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Filter paper

Oil filter paper

Oil refining, training oil, transformer oil, oil additives, oil regeneration, catalysts, paints, coatings, electrical capacitors, transformers, oil chemicals, fine chemicals, paraffin wax, gold, alkyd resins etc.

Water treatment paper

Plating solution, pharmaceuticals, water treatment chemicals, rice wine, mineral water, resin.



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Filter support plate

Matching to frame filter for diatomite, play a supportive role, mainly used for coarse filtration of beer, the beverage industry filtration syrup, gelatin, vinegar, soy sauce, oil, chemical, biochemical products, fine wine, cocoa oil etc.

Fine filter plate

Matching filter for the frame, beer, drinks fine filter, Filtration of wine, juice, Filtration, Filtration-based pharmaceutical industry nutrition, bio-pharmaceutical oral liquid, chemical, beeswax, glycerin, gum arabic, honey etc.



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Filter membrane

Acetate micro pore membrane

Main feature

It is isotropic, regardless of positive and negative, it can play a role of retention on more than the rated pore size of the fixed particles.

Thermo stability

Heat sterilization at 120 degrees for 30 minutes, good thermal stability

Chemical stability

A variety of liquid filtration PH211 can also filter instrument oil, 5% acetic acid, 6n, potassium hydroxide, anhydrous ethanol, glycerol, methanol, normal propyl alcohol guided alcohol, trimellitic acid, the octyl, polyethylene 2 alcohol, wines, beverages, vinegar. But can not filter: glacial acetic acid, 6n hydrochloric acid, 6n, potassium hydroxide, acetone, dichloromethane.

Microporous membrane of mixed cellulose ester

The membrane of mixed cellulose ester is widely used by the companies, which meet the quality standard. Their products with a smooth surface, light texture and high porosity, and uniform pore structure, so has the flow quickly, and the characteristics of adsorption.

Application

This product is used in the pharmaceutical industry, biological products, mineral water beverage, brewing, and electronic instruments in the water industry, medicine, oil, lubricating oil, fuel oil and research laboratories, bacteria and particulate filter etc. generally more it can separate particles over 0.65 micron, and it can separate germs less 0.45 microns.



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Types of filter membrane

PP membrane, nylon membrane, PTFE membrane, asbestos-free sterilization
to clarify the multi-fiber panels, pre-filtration membrane