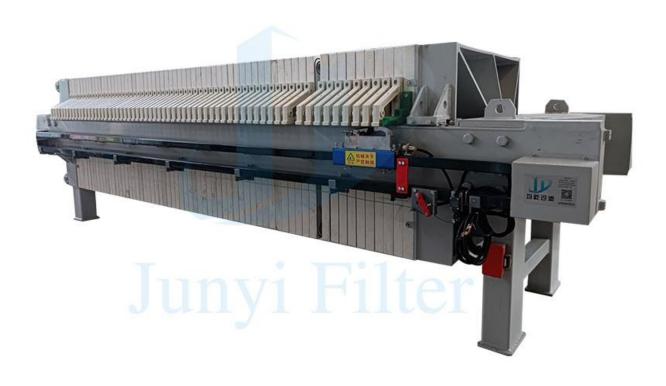


Automatic recessed filter press





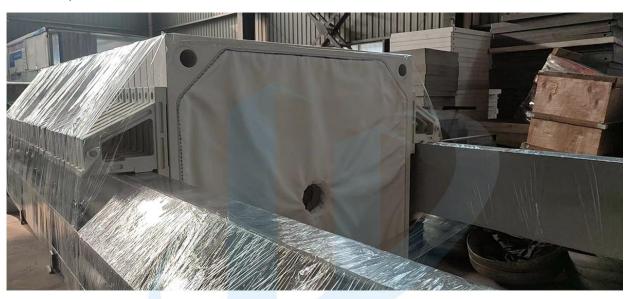


Product Description

It is a new type of the filter press with the recessed filter plate and strengthen rack.

After the filter plate has been pressed, there will be a closed state among the chambers to avoid the liquid leakage and odors volatilization during the filtration and cake discharging.

It is widely used in the pesticide, chemical, the strong acid / alkali/corrosion and the volatile industries, etc.









There are two kinds of such filter press: PP Plate Recessed Filter Press and Membrane Plate Recessed Filter Press.



Product Features

A. **Filtration pressure**: 0.6Mpa----1.0Mpa----1.6mpa (for choice)

B. **Filtration temperature:** 45°C/ room temperature; 80°C/ high temperature; 100°C/ High temperature. The raw material ratio of different temperature production filter plates is not the same, and the thickness is not the same.

C. **Liquid discharge method close flow:** Under the feed end of the filter press, there are two close flow outlet main pipes, which are connected with the liquid recovery tank. If the liquid needs to be recovered, or if the liquid is volatile, smelly, flammable and explosive, dark flow is used.

D-1. **Selection of filter cloth material:** The pH of the liquid determines the material of the filter cloth. PH1-5 is acidic polyester filter cloth, PH8-14 is alkaline polypropylene filter cloth. The viscous liquid or solid is preferred to choose twill filter cloth, and the non-viscous liquid or solid is selected plain filter cloth.

D-2. **Selection of filter cloth mesh:** The fluid is separated, and the corresponding mesh number is selected for different solid particle sizes. Filter cloth mesh range 100-1000 mesh. Micron to mesh conversion (1UM = 15,000 mesh---in theory).

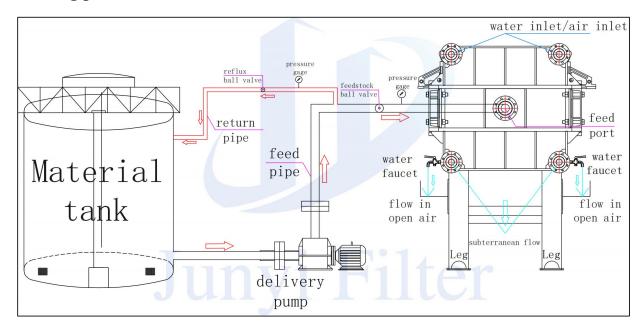
E. Rack surface treatment: PH value neutral or weak acid base; The surface of the filter press frame is sandblasted first, and then sprayed with primer and anti-corrosion paint. The PH value is strong acid or strong alkaline, the surface of the filter press frame is sandblasted, sprayed with primer, and the surface is wrapped with stainless steel or PP plate.

F. **Filter cake washing:** When solids need to be recovered, the filter cake is strongly acidic or alkaline; When the filter cake needs to be washed with water, please send an email to inquire about the washing method.

G. Filter press feeding pump selection: The solid-liquid ratio, acidity, temperature and characteristics of the liquid are different, so different feed pumps are required. Please send email to inquire.



Feeding process



Application Industries

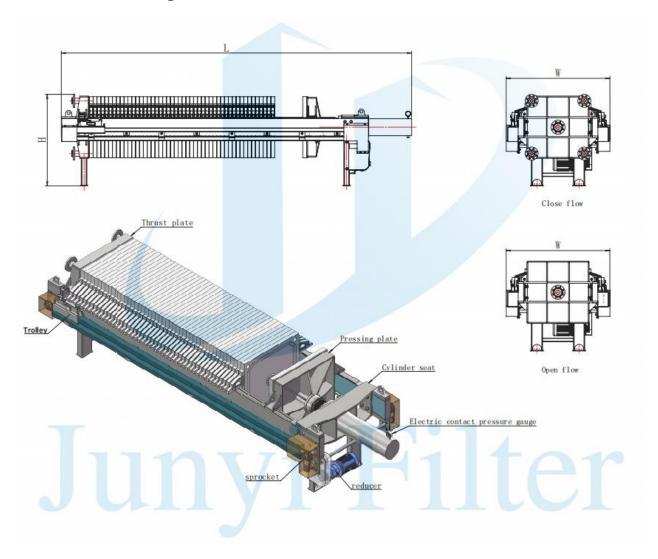
It is widely used in the pesticide, chemical, the strong acid / alkali/corrosion and the volatile industries, etc.

Filter press ordering instructions

- 1. Refer to the filter press selection guide, filter press overview, specifications and models, select the model and supporting equipment according to the needs. For example: Whether the filter cake is washed or not, whether the effluent is open or close, whether the rack is corrosion-resistant or not, the mode of operation, etc., must be specified in the contract.
- 2. According to the special needs of customers, our company can design and produce non-standard models or customized products.
- 3. The product pictures provided in this document are for reference only. In case of changes, we will not give any notice and the actual order will prevail.

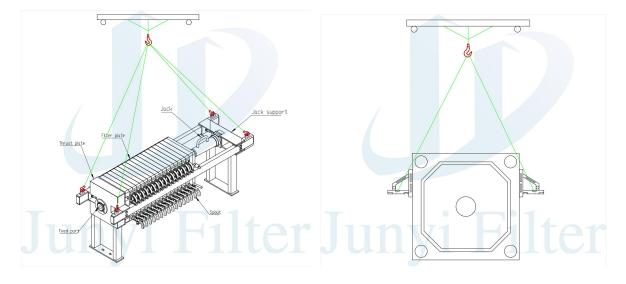


Dimension Drawing



Hoisting diagram of filter press

Filter plates hoisting diagram





Filter Press Model Guidance							
Solid-liquid ratio (%)	Specific gravity of solids	Material status	PH value	Solid particle size (mesh)			
Recovery of liquids/solids	Water content of filter cake	Working hours/day	Capacity/day	Whether the liquid evaporates or not			
	(%) Recovery of	Solid-liquid ratio (%) Recovery of liquids/solids Specific gravity of solids Water content of filter cake	Solid-liquid ratio (%) Specific gravity of solids Material status with solids Recovery of liquids/solids filter cake hours/day	Solid-liquid ratio (%) Recovery of liquids/solids Specific gravity of solids Material status PH value Working hours/day Capacity/day			

Technical parameter

	Filter	Plate Size	Chamber	Plate	Weight	Motor	Overa	ll dimension (n	nm)	Inlet	Outlet/close	Outlet/open
Model	area (m²)	(mm)	volume (L)	Qty (pcs)	(Kg)	power (KW)	Length (L)	Width (W)	Height (H)	Size (a)	flow size (b)	flow size
JYFPCA-4-450	4		60	9	830		1960		1		1.	
JYFPCA-8-450	8	450	120	19	920		2465					
JYFPCA-10-450	10	×	150	24	9800	2.2	2710	700	900	DN50	DN50	G1/2
JYFPCA-12-450	12	450	180	29	1010		2980					
JYFPCA-16-450	16		240	36	1120		3465					
JYFPCA-15-700	15		225	18	1710		2665			1		
JJYFPCA-20-700	20	700	300	24	1960		2970	900	1100	DN65	DN50	G1/2
JYFPCA-30-700	30	×	450	37	2315	2.2	3610)			
JYFPCA-40-700	40	700	600	49	2588		4500					
JYFPCA-30-870	30	/	450	23	2946		3280					
JYFPCA-40-870	40	870	600	30	3390		3670					
JYFPCA-50-870	50	×	750	38	3950	4.0	4210	1200	1300	DN80	DN65	G1/2
JYFPCA-60-870	60	870	900	46	4390		4650					
JYFPCA-80-870	80		1200	62	5330		5500					
JYFPCA-50-1000	50		745	29	3960	1	4060					
JYFPCA-60-1000	60	1000×	1050	35	4510		4810					
JYFPCA-80-1000	80	1000	1200	47	4968	4.0	5200	1500	1400	DN80	DN65	G 3/4
JYFPCA-100-1000	100		1500	58	5685		5900					
JYFPCA-120-1000	120		1800	70	6320		6560					
JYFPCA-100-1250	100		1480	38	7960		5120					
JYFPCA-140-1250	140	1250	2090	53	9050		6030			DN		
JYFPCA-160-1250	160	×	2380	60	10490	5.5	6520	1800	1600	125	DN 80	G3/4
JYFPCA-200-1250	200	1250	2980	75	13060		7480					
JYFPCA-250-1250	250		3735	93	15850		8680	0 1				
JYFPCA-200-1500	200		2960	51	18300		6500					
JYFPCA-300-1500	300	1500	4430	75	24130	7.5	8230	2200	1900	DN	DN 100	G 1
JYFPCA-350-1500	350	×	5190	87	27200		8670			200		
JYFPCA-400-1500	400	1500	5950	101	30100		9980				1	
JYFPCA-500-1500	500		7460	125	36250		11660					
JYFPCA-600-2000	600		12000	87	45800		11200					
JYFPCA-700-2000	700	2000	14000	101	49600		12350			DN		
		×				11.0		3000	2600	200*2	DN 125	G 1
JYFPCA-800-2000	800	2000	16000	109	53100		13480					
JYFPCA-900-2000	900		18000	129	57900		14690					
JYFPCA-1000-2000	1000		20000	141	61500		15810					



Requirements for use of filter presses

1. According to the process requirements to make pipeline connection, and do water inlet test, detect the air tightness of the pipeline;

2. For the connection of the input power supply (3 phase + neutral), it is best to use a ground wire for the electric control cabinet;

3. Connection between control cabinet and surrounding equipment. Some wires has been connected. The output line terminals of the control cabinet are labeled. Refer to the circuit diagram to check the wiring and connect it. If there is any looseness in the fixed terminal, compress again;

4. Fill the hydraulic station with 46 # hydraulic oil, the hydraulic oil should be seen in the tank observation window. If the filter press operates continuously for 240 hours, replace or filter the hydraulic oil;

5. Installation of cylinder pressure gauge. Use a wrench to avoid manual rotation during installation. Use an O-ring at the connection between the pressure gauge and the oil cylinder;

6. The first time the oil cylinder runs, the motor of the hydraulic station should be rotated clockwise (indicated on the motor). When the oil cylinder is pushed forward, the pressure gauge base should discharge air, and the oil cylinder should be repeatedly pushed forward and backward (the upper limit pressure of the pressure gauge is 10Mpa) and air should be discharged simultaneously;

7. The filter press runs for the first time, select the manual state of control cabinet to run different functions respectively; After the functions are normal, you can select the automatic state;

8. Installation of filter cloth. During the trial operation of the filter press, the filter plate should be equipped with filter cloth in advance. Install the filter cloth on the filter plate to ensure that the filter cloth is flat and there are no creases or overlaps. Manually push the filter plate to ensure that the filter cloth is flat.

9. During the operation of the filter press, if an accident occurs, the operator presses the emergency stop button or pulls the emergency rope;



Main faults and troubleshooting methods

Fault phenomenon	Reasons	Troubleshooting		
	1. The oil pump is empty or the oil	Oil tank refueling, solve		
Severe noise or unstable pressure	suction pipe is blocked.	suction pipe leakage		
	2. The sealing surface of the filter plate is	Clean sealing surfaces		
	caught with misc.			
in the hydraulic	3. Air in the oil circuit	Exhaust air		
system	4. Oil pump damaged or worn	Replace or repair		
	5. The relief valve is unstable	Replace or repair		
	6. Pipe vibration	Tightening or reinforcing		
Y 000	1. Oil pump damage	Replace or repair		
Insufficient or no	2. Pressure adjusted incorrectly	Recalibration		
pressure in the	3. Oil viscosity is too low	Replacement of oil		
hydraulic system	4. There is a leak in the oil pump system	Repair after examination		
	1. Damaged or stuck high pressure relief	Replace or repair		
- ag .	valve			
Insufficient	2. Damaged reversing valve	Replace or repair		
cylinder pressure	3. Damaged large piston seal	replacement		
during	4. Damaged small piston "0" seal	replacement		
compression	5. Damaged oil pump	Replace or repair		
	6. Pressure adjusted incorrectly	Recalibrate		
T 000	1. Damaged or stuck low pressure relief	D 1		
Insufficient cylinder pressure when returning	valve	Replace or repair		
	2. Damaged small piston seal	replacement		
	3. Damaged small piston "0" seal	replacement		
Piston crawling	Air in the oil circuit	Replace or repair		
Serious	1. Bearing damage	Replacement		
transmission noise	2. Gear striking or wearing	Replace or repair		



	1. Plate and frame deformation	Replacement		
Serious leakage between plates and frames	2. Debris on sealing surface	Clean		
	3. Filter cloth with folds, overlaps, etc.	Qualified for finishing or replacement		
	4. Insufficient compression force	Appropriate increase in compression force		
	1. Filter pressure too high	turn down the pressure		
	2. High material temperature	Appropriately lowered temperatures		
The plate and frame are broken	3. Compression force too high	Adjust the compression force appropriately		
or deformed	4. Filtering too fast	Reduced filtration rate		
	5. Clogged feed hole	Cleaning the feed hole		
	6. Stopping in the middle of filtration	Do not stop in the middle of filtration		
The replenishment system works frequently	1. The hydraulic control check valve is not tightly closed	replacement		
	2. Leakage in the cylinder	Replacement of cylinder seals		
Hydraulic reversing valve failure	Spool stuck or damaged	Disassemble and clean or replace the directional valve		
The trolley can't be	1. Low oil motor oil circuit pressure	adjust		
pulled back because of the back and forth impact.	2. The pressure relay pressure is low	adjust		



Failure to follow procedures	Failure of a component of the hydraulic system, electrical system	Repair or replace symptomatically after		
	Insufficient air pressure	Reduced press pressure		
Diaphragm damage	2. Insufficient feed	Pressing after filling the		
	2. Insumerent feed	chamber with material		
	3. A foreign object has punctured the diaphragm.	foreign matter removal		
Bending damage to main beam	1. Poor or uneven foundations	Refurbish or redo		

Welcome to inquiry!

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