Arsimak®

SLUDGE DEWATERING EQUIPMENTS

FILTER PRESS UNITS

www.arsimak.com

Environmental Innovation

FILTER PRESS UNITS

We produce "filter press systems", which are one of our areas of specialization, in short time, with wide capacity range and various material choices.
Our company, in addition to TSEK, ISO 14001 Environmental Management System and OHSAS Certificates, is accredited for ISO 9001-2000 Quality Management System.

FILTER PRESS USAGE AREAS

- Food and Beverage Insdustry
- Industrial Sludges
- Biological Sludges
- Metal Industry
- Mining Industry
- Chemistry Industry
- Pulp and Paper Industry
- Waste Treatment Facilities

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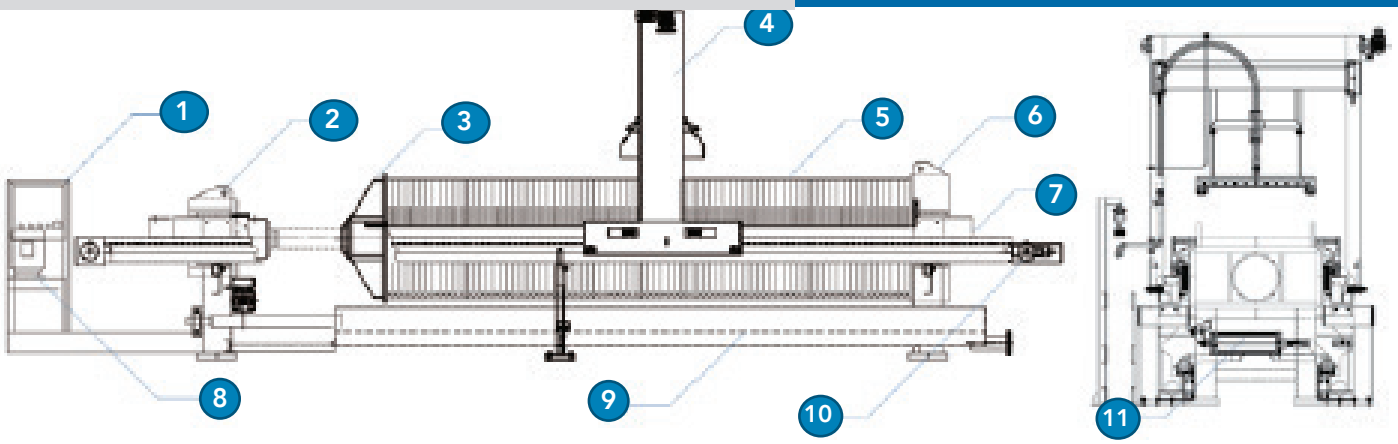
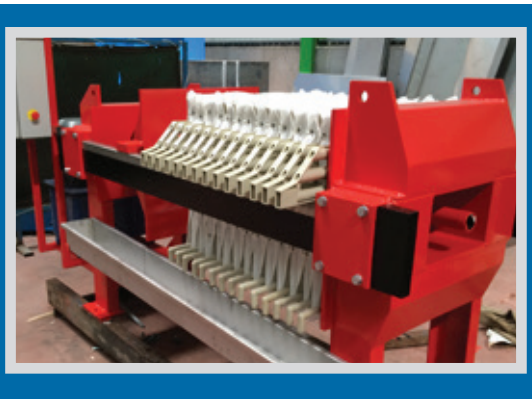
FILTER PRESS UNITS

BENEFITS OF FILTER PRESS UNITS

- Efficient and economical solutionfor sludge dewatering
- Fine filtration provided under high pressure
- High solid matter content in sludge cake
- Sustainable operation ability
- Low operation and maintenance cost
- Low energy consumed



1. CONTROL PANEL
2. PISTON CHASSIS
3. MOVING CHASSIS
4. AUTOMATIC PLATE WASHING (OPTIONAL)
5. FILTER PRESS PLATE
6. FIXED CHASSIS
7. SLUDGE INPUT
8. HYDRAULIC UNIT
9. FILTRATE SLOT
10. AUTOMATIC PLATE MOVING SYSTEM
11. DRIP TRAY



Filter Presses are dewatering equipments with the highest de-watering rate among all the mechanic dewatering equipments used. By transforming sludge like solid material into cake, the filter press separates water. Moreover, this kind of press is the most widely used dewatering system due to its economical and ease of use qualities.

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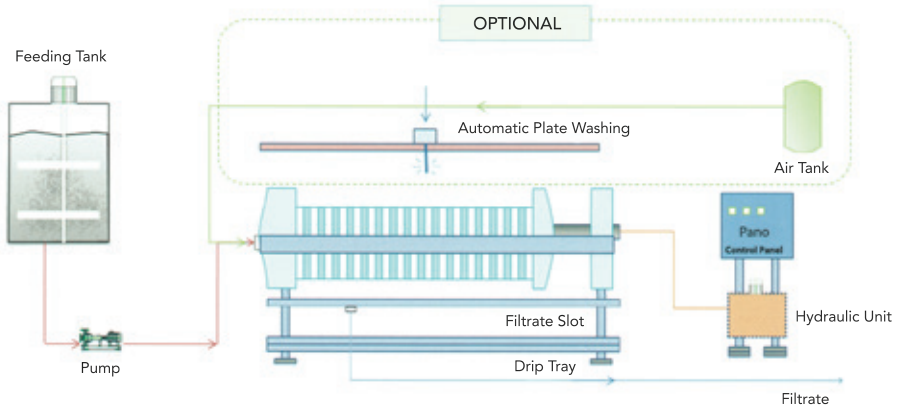
FILTER PRESS UNITS



WORKING SYSTEM OF ARSIMAK FILTER PRESSES

1. The closure of the filter press is performed using an automatically or manually activated hydraulic piston.
2. After the closure step, sludge is pumped into the filter press.
3. At the same time, filtrate flow through between plates is observed. The pumping step is performed until the requested filtration pressure is reached.
4. The setting in and out of the sludge pump pursues until cake formation in the filter press.
5. With the termination of the sludge pumping into the filter press, this latter is reopened on the hydraulic unity side.
6. The cleaning step is constituted by the cleaning of the cake formed in the filter press after the opening of this latter.

FILTER PRESS HYDRAUILIC TABLE

Code	TYPE	250	500	630	800	1000	1200	1500	2000
HH	Hand hydraulics	✓	✓	✓	✓	✗	✗	✗	✗
SEH	Semi hydraulic	✓	✓	✓	✓	✗	✗	✗	✗
EH	Electric hydraulic	✗	✗	✓	✓	✓	✓	✓	✓

✓: Standard

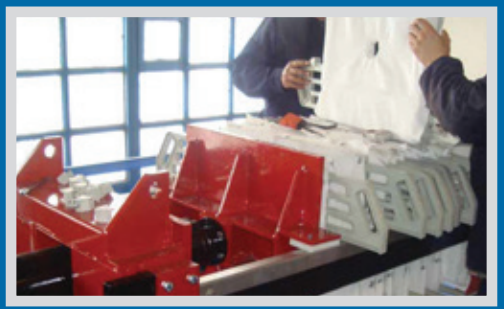
PRESSURE OPTIONS : 8-16 Bar

PLATES DIMENSIONS : 250mm X 250 mm - 2000 mm - 2000 mm

PLATE MATERIAL OPTIONS : PP, PU, PVDF

FILTER CLOTHES : For different sludge characterisation

COVERING : With PP, AIS 304, AIS 316 FFor different PH's



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FILTER PRESS UNITS

FILTER PRESS HYDRAUILIC TABLE									
Code	**TYPE**	**250**	**500**	**630**	**800**	**1000**	**1200**	**1500**	**2000**
PT	Automatic Plate Conveying	X	X	X	OP	S	S	S	S
DT	Drip Pan	S	S	S	S	S	S	S	S
BYT	Belt Wash Station	OP	OP	OP	OP	S	S	S	S
PS	Automatic Plate Shaking	OP	OP	OP	OP	S	S	S	S
PLC	Controlled Press	OP	OP	OP	S	S	S	S	S
IEP	Illimunated Safety Screen	OP	OP	OP	OP	S	S	S	S
K	Sludge Conveyor	OP	OP	OP	OP	OP	S	S	S
IP	Plate Addition is possible	S	S	S	S	S	S	S	S

HYDRAULIC MODELS AND ACCESSORIES

Manuel Hydraulic
In this model, the closing of the plates is performed using a hand pump. After this operation, the mechanic lock on the cylinder is used to continuously main-tain the press at the chosen pressure.

Semi-electrical Hydraulic
In this model, the closing of the plates is performed using a hand pump. After this operation, the mechanic lock on the cylinder is used to continuously main-tain the press at the chosen pressure.

Automatic plate conveying
After the opening of the press, the plate conveying process is performed by our special conveying apparatus. It has been specially designed for the press. The propulsion is ensured by the hydraulic unit and all the movement transfer ele-ments are in a special receptacle.

Automatic Plate Shaking
The opening process is performed by an accordion-shaped chain. The press, opened at equal intervals, lifts the plates at an adjustable height. This process is performed pneumatically. The number of shaking process repeats is set au-tomatically.

Transition Pieces
If you want to increase the plate number later, a transition piece can be added during the design. The requested plate number, corresponding to the design, can be thus obtained by dismounting this piece.

Drip Tray
Dripping can occur during dewatering process of low solid material content or unconditioned sludge. The systemati-cally added drip pan allows to collect liqu-ids and to direct the cake.

Plate Addition
The press capacity can be increased by adding plates.

Automatic With PLC
Programming to allow an integrated operation with different systems can be operated.

Automatic Plate Washing
This is a high pressure washing system with adjustable time interval that can be added to our equipments. The op-eration is manually or automatically activated.

Safety Screen
Movements sensors installed in moving parts of the equipment stop the system in potential dangers for the operator and equipment safety during the use of the unit.

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