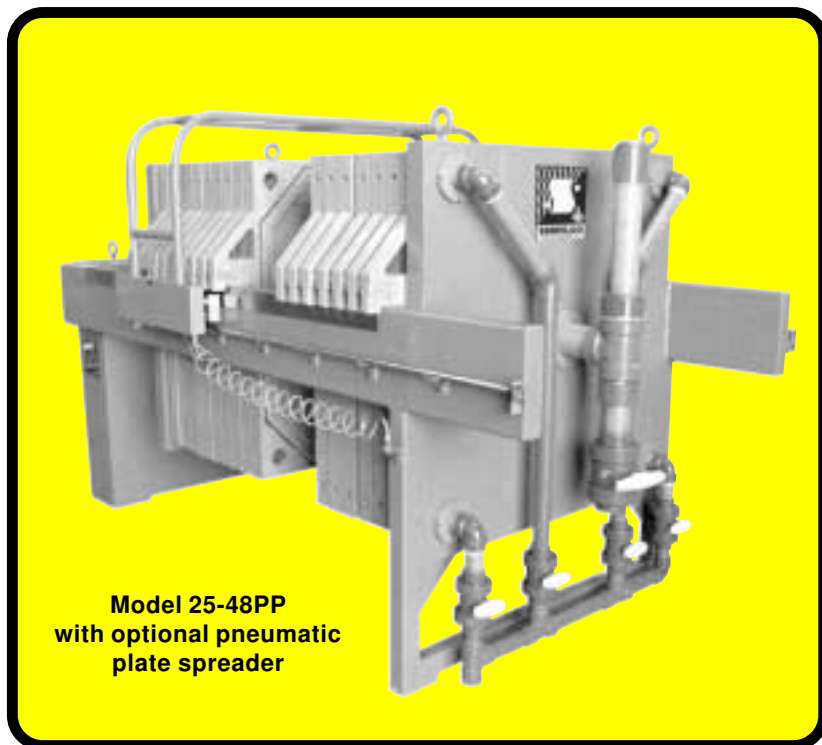


Efficient, economical /dewatering of sludge

Liquid / solid separation for:

**WASTE & SEWAGE TREATMENT
BREWING / CEMENT / CERAMIC
MINING & PLATING INDUSTRIES
FOOD & VARNISH PROCESSING
CHEMICALS**

- **MANUAL HYDRAULIC**
0.6 to 3 cu.ft.expandable
- **SEMI-AUTOMATIC**
1 to 50 cu.ft. expandable
- **AIR BLOWDOWN MANIFOLD**
- **CORROSION RESISTANT**
- **40-60% SOLIDS CONCENTRATION**
- **LOW ENERGY REQUIREMENT**
- **EASY DROPOUT CLEANING**



**Model 25-48PP
with optional pneumatic
plate spreader**

The Recessed Plate Filter Press will compact sludges to a dry cake with a density that is dependent upon the ultimate compaction pressure and the characteristics of the particular sludge.

Each pressload will require from 2-4 hours cycle time. To insure adequate time, the press should be sized for at least 8 hours working capacity. The table and formula below can be utilized to size your press. To confirm your sizing and evaluate the process for your application with a laboratory-sized model,

contact the Sales Department to arrange a pilot test.

Presses feature structural steel frame, coated with tough chemical resistant epoxy paint. High density molded polypropylene filter plates are light weight and corrosion resistant. Special polypropylene quick cake release filter cloths. Air actuated hydraulic system for parting and closing the filter plates. Automatic self-compensating hydraulic system. Conveniently located operator control console.

TO SIZE YOUR PRESS, the following information is required:

SLUDGE TYPE	% OF CAKE DRY WEIGHT SOLIDS	AVERAGE DRY WEIGHT/ CUBIC FOOT
Biological Sludge	15-25	15
Metal Hydroxide Sludge	25-40	25
Lime Treated Sludge	15-60	30

- A.** Total gallons to be processed in selected press in specified period, e.g., U.S gals./8 hours. Twenty-four hours can be used to insure adequate capacity.
- B.** Percent by weight of filterable suspended solids.
- C.** Average dry weight per cubic foot for a particular sludge (obtained from table.)

CALCULATIONS:

$$\frac{A \times B \times 8.33 \text{ LBS./GAL.}}{C} \text{ OR } \frac{(U.S. GALS./ 8 \text{ HRS.}) \times (\% \text{ SUSPENDED SOLIDS}) \times 8.33 \text{ LBS./GAL.}}{(\text{AVERAGE LBS. DRY WT. / CUBIC FT.})} = \text{CU. FT. CAPACITY FOR A DURATION}$$

RECESSED PLATE FILTER PRESS (cont'd)

TO ORDER, use Price Code Number

MANUAL HYDRAULIC												
MODEL	CUBIC FEET ¹	IN-OUT NPT & SQUARE PLATE SIZE	DIMENSIONS (IN.)						NO. OF CHAMBERS	APROX. WEIGHT (LBS.)	PRICE CODE NUMBER	
			A	B	C	D	E	F			NON-GASKETED	GASKETED
0.6-18PPMH	0.6	1½" x 1" 18½"(470mm)	32	24	49	31	37	52	4	800	43-0804	43-0804G
1-18PPMH	1.0						41	56	6	850	43-0805	43-0805G
2-18PPMH	2.0						55	70	12	940	43-0806	43-0806G
3-18PPMH	3.0						73	87	19	1060	43-0807	43-0807G
SEMI-AUTOMATIC												
1-24PP	1	2½" x 1½" 24" (610mm)	39	31	56	30	57	84	3	1700	43-0601	43-0601G
2-24PP	2						67	93	7	1900	43-0602	43-0602G
3-24PP	3						74	100	10	2050	43-0603	43-0603G
4-24PP	4						80	107	14	2150	43-0604A	43-0604AG
5-24PP	5						89	116	17	2300	43-0605A	43-0605AG
6-31PP	6	3" x 1½" 31½"(800mm)	48	40	63	30	82	109	12	4200	43-0606	43-0606G
8-31PP	8						92	119	16	4450	43-0608	43-0608G
10-31PP	10						102	129	20	4900	43-0610	43-0610G
15-31PP	15						127	154	30	5500	43-0615A	43-0615AG
20-31PP	20						152	179	40	6000	43-0620A	43-0620AG
25-48PP	25						3" x 2" 48" (1200mm)	66	58	86	35	105
30-48PP	30	116	144	25	11,850	43-0630A						43-0630AG
40-48PP	40	141	169	34	13,100	43-0640						43-0640G
40-48PP	40	163	191	42	14,000	43-0650						43-0650G

¹ Based on 1¼" thick filter cake.

NOTE: Air blowdown connections are ½" NPT on all models.

OPTIONAL EQUIPMENT

SLUDGE HOPPER

Self-dumping hoppers to transfer compacted solids from the press to a large roll-off type container. The hoppers, specifically engineered for each class of press, are easily moved with forklift truck and dumping is accomplished merely by a trip handle.

AUTOMATIC PUMP CONTROL

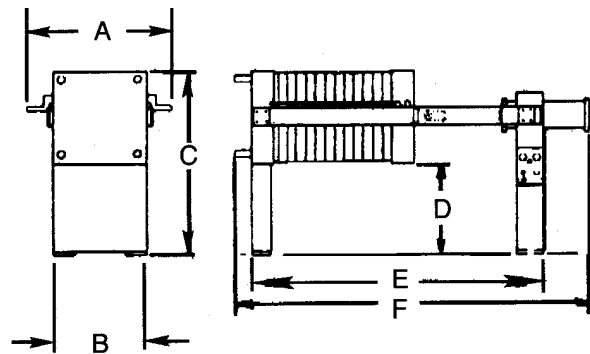
Allows progressively increasing air pressure on diaphragm pump to attain a denser, drier cake.

DRUM DISPOSAL SYSTEM

For presses up to 5 cubic feet. Includes chute and extended legs to raise press to permit adequate clearance for a drum.

PLATE SPREADER, SAFETY LIGHT CURTAIN, PRESS-FULL INDICATOR and HYDRAULIC INTERLOCK are additional features on some models.

DIMENSIONS



DESCRIPTION	PRICE CODE NO.
Air diaphragm pump, ½" - 14 GPM	55-7120A
Polypropylene w/nitrile 1" - 40 GPM	55-7144A
See Bulletin P-605 2" - 135 GPM	55-7208
Drum disposal system w/extended legs & carbon steel chute for 1 to 5 cu. ft. size	
Manual hydraulic 18"	43-0667
Semi-automatic 24"	43-0648
Self-dumping sludge hopper (Order 2X press capacity)	
6 cu. ft.	43-0641
10½ cu. ft.	43-0642
21 cu. ft. (Cu. ft. capacity of dumpster is 32 cu. ft. total of 2 hopper units provided)	43-0644 43-0649
PRESS-FULL indicator	43-0668

DESCRIPTION	FOR PLATE SIZE			
	18"	24"	31"	48"
Pneu. plate spreader	-	43-0680	43-0656	43-0658
Safety light curtains	-	-	43-0659	43-0661
Replacement cloth				
Non-gasketed	SF-U18 [±]	SF-U24 [±]	SF-U31 [±]	SF-U48 [±]
Gasketed	SF-U18 [±] G	SF-U24 [±] G	SF-U31 [±] G	SF-U48 [±] G
Expander piece (For the future addition of up to 10 plates)**	43-0672	43-0673	43-0674	43-0675
Additional plates (each)	43-0676	43-0677	43-0678	43-0679
Automatic pump control				
3 stage		43-0662		
4 stage		43-0670		
Hydraulic interlock for feed pump air supply		43-0671		

Consult Sales Department for options not shown, such as high pressure units, catwalks, drum carts, etc.

* To designate cloth position, add to Price Code Number: H Head T Tail M Intermediate

**Expander piece for maximum of 7 plates for manual hydraulic 18" size plates.