

technical

# bulletin

**No. MB-242-C**

## **Free-Flo Couch Roll Type Thickener**



The Free-Flo Thickener is used to thicken stock from ~0.7-1.0% up to 6% consistency, depending on the furnish. Available in a 60-in. mold diameter with mold faces from 48 to 234 inches, it has unit capacities ranging from 20 to 400 T/D. Applications include thickening in OCC and board mills, as well as washing in ONP and ledger grade deinking systems. It can also be used as the primary thickener ahead of a belt or screw press in a kneading or dispersion operation.

The Free-Flo Thickener incorporates a rigid fabricated vat, available in mild or stainless steel, which contains the patented shaftless cylinder mold. By eliminating the heavy, expensive solid shaft found in other couch-type thickener molds, the structural integrity and reliability have been dramatically improved. Higher capacity drainage is achieved through innovative backing plate and wire combinations, while yield losses are controlled by special face wire configurations.

### **FEATURES/BENEFITS**

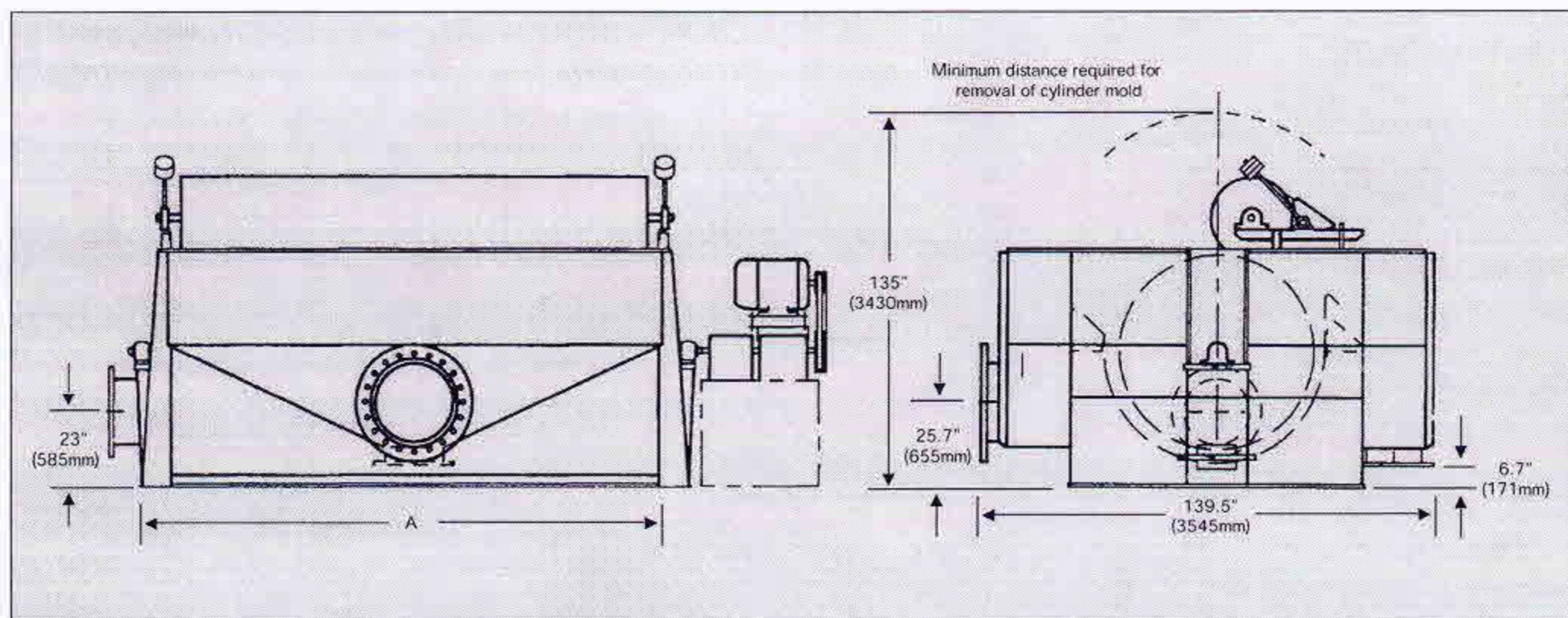
- No obstructions or points where dirt can build up inside the mold – reduces downtime for maintenance
- Mold is built in segments – reduces maintenance or replacement costs
- Mold is light, easy to handle – reduces installation time, simplifies wire changes
- Stiffening rings placed every 20 to 25 inches (510mm to 635mm) – assures roundness and reduces maintenance costs
- Couch roll and doctor are light, easy to clean – reduces maintenance time and costs

**THERMO BLACK CLAWSON INC**

A Thermo Fibertek company



## Free-Flow Couch Roll Type Thickener



GENERAL DIMENSIONS - NOT CERTIFIED  
FOR CONSTRUCTION OR INSTALLATION

GUARDS OMITTED FOR CLARITY BUT  
PERIMETER GUARDS ARE RECOMMENDED

Size in./mm		A in./mm	HP/kW	Weight lb/kg	
Dia.	Face			Shipping	Operating
60 1525	48 1220	75.5 1915	5 4.0	9700 4435	27400 12520
	72 1830	99.5 2525	5 4.0	14000 6400	39500 18050
	96 2440	123.5 3135	7.5 5.5	17900 8180	50500 23080
	120 3050	147.5 3745	7.5 5.5	21500 9825	60600 27690
	144 3655	171.5 4355	10 7.5	24800 11335	69900 31945
	180 4570	207.5 5270	20 15	29600 13530	83500 38160
	234 5945	261.5 6640	20 15	35000 15600	99000 45240

Recycled Fiber • Chemical Pulping • Stock Preparation

**THERMO BLACK CLAWSON INC**

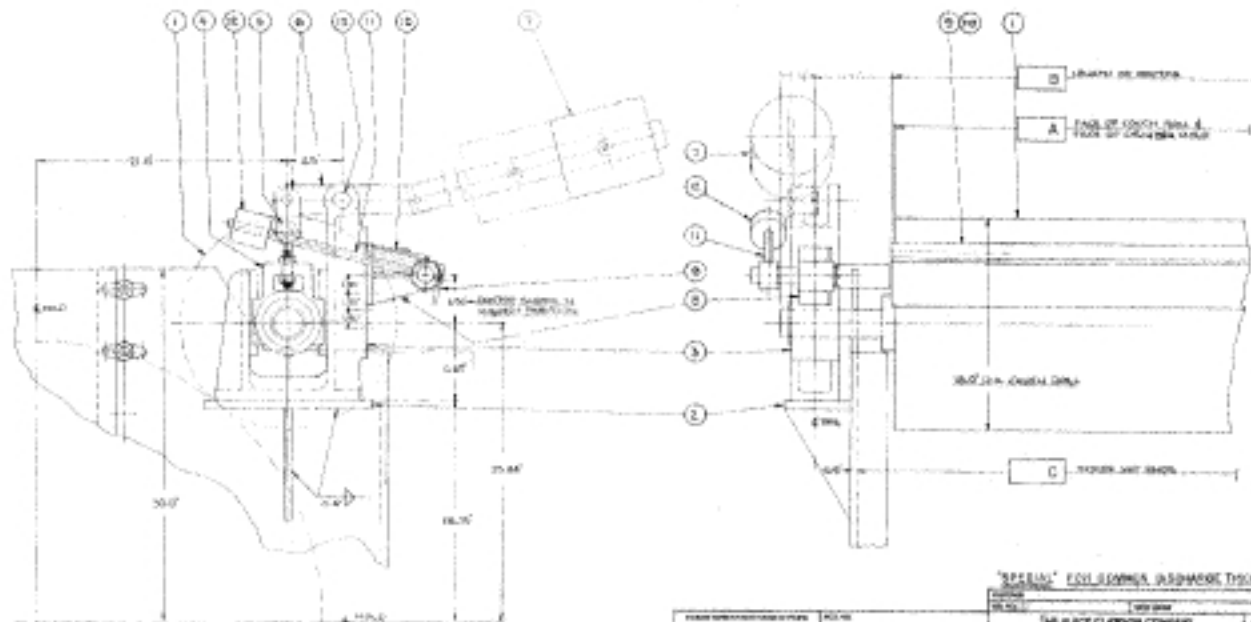
A Thermo Fibertek company

605 Clark Street, Middletown, OH 45042-2117 USA +1 513.424.7400 Fax +1 513.424.1168 [www.blackclawson.com](http://www.blackclawson.com)

Thermo Black Clawson China • Thermo Black Clawson Canada Ltd. • Thermo Black Clawson S.A. • Thermo Black Clawson Ltd. (UK)

ITEM NO.	DESCRIPTION
1	1/2" DIA. COUCH ROLL
2	1/2" DIA. COUCH ROLL
3	1/2" DIA. COUCH ROLL
4	1/2" DIA. COUCH ROLL
5	1/2" DIA. COUCH ROLL
6	1/2" DIA. COUCH ROLL
7	1/2" DIA. COUCH ROLL
8	1/2" DIA. COUCH ROLL
9	1/2" DIA. COUCH ROLL
10	1/2" DIA. COUCH ROLL
11	1/2" DIA. COUCH ROLL
12	1/2" DIA. COUCH ROLL
13	1/2" DIA. COUCH ROLL

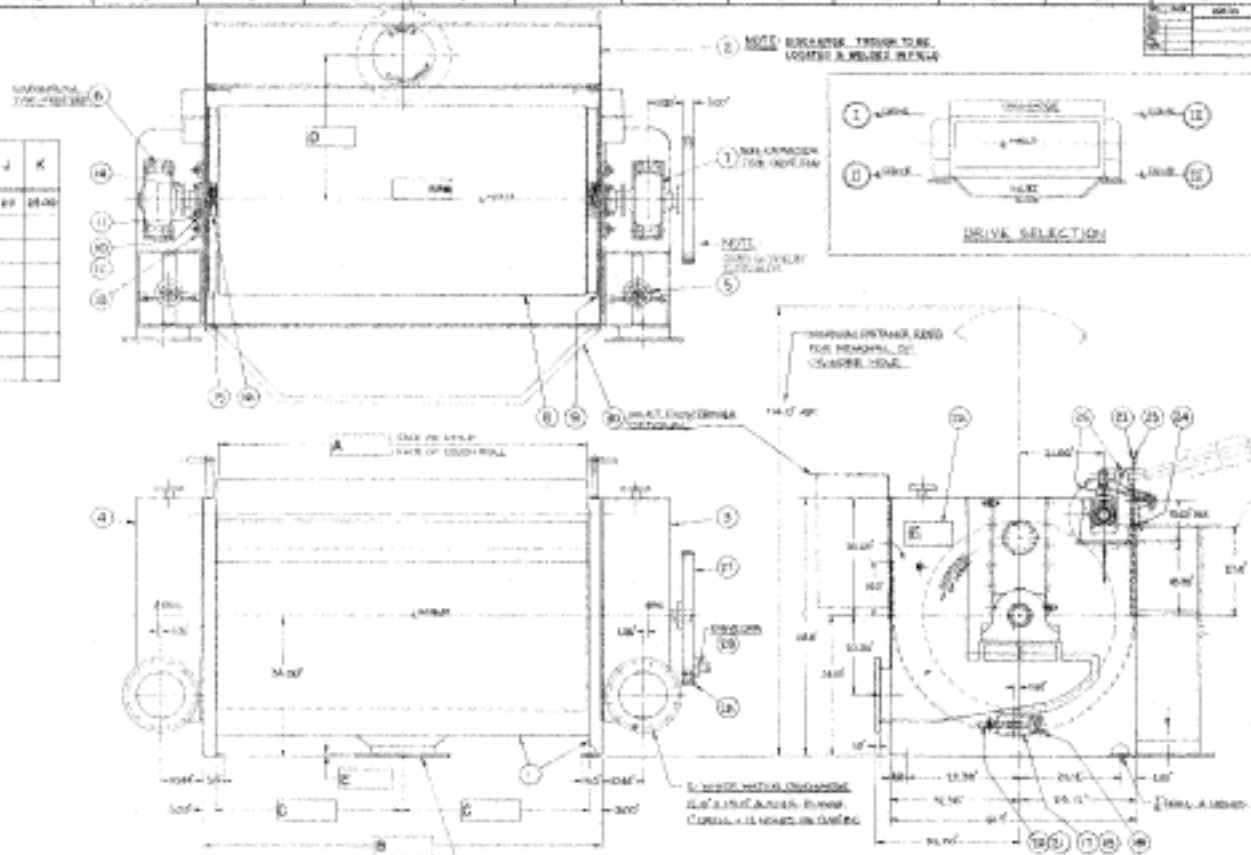
LINE NO.	A	B	C
1	40.00"	50.00"	60.00"
2	10.00"	10.00"	10.00"
3	40.00"	50.00"	60.00"
4	40.00"	50.00"	60.00"
5	40.00"	50.00"	60.00"
6	40.00"	50.00"	60.00"
7	40.00"	50.00"	60.00"
8	40.00"	50.00"	60.00"



<b>THE BLACK CLAWSON COMPANY</b> 1000 N. 10th St., Chicago, Ill. 60610 Tel. (312) 329-1000		<b>48 D-179197</b>
--	--	--------------------

[illegible][illegible]

TIME	DESCRIPTION
1	NOT KNOWN - RECORD
2	NOT KNOWN - RECORD
3	WATER TREATMENT - 1ST STAGE
4	WATER TREATMENT - 2ND STAGE
5	WATER TREATMENT - 3RD STAGE
6	WATER TREATMENT - 4TH STAGE
7	WATER TREATMENT - 5TH STAGE
8	WATER TREATMENT - 6TH STAGE
9	WATER TREATMENT - 7TH STAGE
10	WATER TREATMENT - 8TH STAGE
11	WATER TREATMENT - 9TH STAGE
12	WATER TREATMENT - 10TH STAGE
13	WATER TREATMENT - 11TH STAGE
14	WATER TREATMENT - 12TH STAGE
15	WATER TREATMENT - 13TH STAGE
16	WATER TREATMENT - 14TH STAGE
17	WATER TREATMENT - 15TH STAGE
18	WATER TREATMENT - 16TH STAGE
19	WATER TREATMENT - 17TH STAGE
20	WATER TREATMENT - 18TH STAGE
21	WATER TREATMENT - 19TH STAGE
22	WATER TREATMENT - 20TH STAGE
23	WATER TREATMENT - 21TH STAGE
24	WATER TREATMENT - 22TH STAGE
25	WATER TREATMENT - 23TH STAGE
26	WATER TREATMENT - 24TH STAGE
27	WATER TREATMENT - 25TH STAGE
28	WATER TREATMENT - 26TH STAGE
29	WATER TREATMENT - 27TH STAGE
30	WATER TREATMENT - 28TH STAGE
31	WATER TREATMENT - 29TH STAGE
32	WATER TREATMENT - 30TH STAGE
33	WATER TREATMENT - 31TH STAGE
34	WATER TREATMENT - 32TH STAGE
35	WATER TREATMENT - 33TH STAGE
36	WATER TREATMENT - 34TH STAGE
37	WATER TREATMENT - 35TH STAGE
38	WATER TREATMENT - 36TH STAGE
39	WATER TREATMENT - 37TH STAGE
40	WATER TREATMENT - 38TH STAGE
41	WATER TREATMENT - 39TH STAGE
42	WATER TREATMENT - 40TH STAGE
43	WATER TREATMENT - 41TH STAGE
44	WATER TREATMENT - 42TH STAGE
45	WATER TREATMENT - 43TH STAGE
46	WATER TREATMENT - 44TH STAGE
47	WATER TREATMENT - 45TH STAGE
48	WATER TREATMENT - 46TH STAGE
49	WATER TREATMENT - 47TH STAGE
50	WATER TREATMENT - 48TH STAGE
51	WATER TREATMENT - 49TH STAGE
52	WATER TREATMENT - 50TH STAGE
53	WATER TREATMENT - 51TH STAGE
54	WATER TREATMENT - 52TH STAGE
55	WATER TREATMENT - 53TH STAGE
56	WATER TREATMENT - 54TH STAGE
57	WATER TREATMENT - 55TH STAGE
58	WATER TREATMENT - 56TH STAGE
59	WATER TREATMENT - 57TH STAGE
60	WATER TREATMENT - 58TH STAGE
61	WATER TREATMENT - 59TH STAGE
62	WATER TREATMENT - 60TH STAGE
63	WATER TREATMENT - 61TH STAGE
64	WATER TREATMENT - 62TH STAGE
65	WATER TREATMENT - 63TH STAGE
66	WATER TREATMENT - 64TH STAGE
67	WATER TREATMENT - 65TH STAGE
68	WATER TREATMENT - 66TH STAGE
69	WATER TREATMENT - 67TH STAGE
70	WATER TREATMENT - 68TH STAGE
71	WATER TREATMENT - 69TH STAGE
72	WATER TREATMENT - 70TH STAGE
73	WATER TREATMENT - 71TH STAGE
74	WATER TREATMENT - 72TH STAGE
75	WATER TREATMENT - 73TH STAGE
76	WATER TREATMENT - 74TH STAGE
77	WATER TREATMENT - 75TH STAGE
78	WATER TREATMENT - 76TH STAGE
79	WATER TREATMENT - 77TH STAGE
80	WATER TREATMENT - 78TH STAGE
81	WATER TREATMENT - 79TH STAGE
82	WATER TREATMENT - 80TH STAGE
83	WATER TREATMENT - 81TH STAGE
84	WATER TREATMENT - 82TH STAGE
85	WATER TREATMENT - 83TH STAGE
86	WATER TREATMENT - 84TH STAGE
87	WATER TREATMENT - 85TH STAGE
88	WATER TREATMENT - 86TH STAGE
89	WATER TREATMENT - 87TH STAGE
90	WATER TREATMENT - 88TH STAGE
91	WATER TREATMENT - 89TH STAGE
92	WATER TREATMENT - 90TH STAGE
93	WATER TREATMENT - 91TH STAGE
94	WATER TREATMENT - 92TH STAGE
95	WATER TREATMENT - 93TH STAGE
96	WATER TREATMENT - 94TH STAGE
97	WATER TREATMENT - 95TH STAGE
98	WATER TREATMENT - 96TH STAGE
99	WATER TREATMENT - 97TH STAGE
100	WATER TREATMENT - 98TH STAGE
101	WATER TREATMENT - 99TH STAGE
102	WATER TREATMENT - 100TH STAGE



**SPECIAL REQUIREMENTS**

F [ ] DOCS [ ] CIL PLANS [ ] BATTRE  
H [ ] DOW [ ] WOOD ON [ ] MC [ ] KC

[illegible]

"SPECIAL" COMMON EXCHANGE THICKENS

THE BLACK CLAYTON COMPANY, INC.  
MEMPHIS, TENN.