



Aqseptence Group Pty Ltd
Industrial & Architectural Screens

88 Brickyard Road
Geebung · Queensland 4034
Phone +61 7 3867 5555
Fax +61 7 3867 5566
industrial.johnsonscreens.au@aqseptence.com

www.aqseptence.com

MILLISCREEN™ (ROTARY SIEVE SCREEN)



The Contra-Shear™ Milliscreen™ is a self cleaning, internally fed, rotary fine screen. The cylindrical screen drum, constructed from Vee-Wire® ensures a high level of solids capture compared to conventional screens. The effluent is either pumped or flows by gravity into a weir tank located inside the screen drum.

The shear force generated on account of the 'Contra-Shear™' effect is the key to better separation of solids from the effluent. Screened effluent passes through the Vee-Wire® slots into a tank from where it is pumped for further processing. The solids captured inside the screen drum are moved towards the discharge end by diverter plates.

MILLISCREEN™ - CI SERIES

Industry	Slot Size (mm)	Application	Peak flow through models in (lpm)				
			6/6	6/9	9/9	9/12	9/15
Pulp & Paper	150	Mill Effluent	876	1310	2174	3106	4087
Meat Processing	100	Total Works Effluent	306	457	917	1367	1882
Meat Processing	0.75	Killing Floor Waste	235	352	585	1021	1430
Meat Processing	0.75	Paunch & Stock Yard	363	544	908	1387	1886
Canning	100	Total Effluent	726	1089	1816	2594	3372
Tanning	100	Total Effluent	198	313	557	914	1315
Poultry	0.50	Offal or Feather	271	407	675	964	1375
Seafood Process	0.50	Total Effluent	290	435	726	1089	1385

The section of the screen drum under the weir tank acts as a draining zone whilst the discharge end section acts as the dewatering zone. Solids in the dewatering zone agglomerate and are continuously rolled on account of the rotation of the screen drum resulting in further reduction of liquid content. The Vee-Wire® drum is very easily cleaned using water at moderate pressure.

The screen drum is attached to a robust segmented sprocket and driven by a heavy-duty chain. The drum itself rotates on four specially designed trunnions mounted on a base frame. The Contra-Shear™ Milliscreen™ is offered in 304 or 316 stainless steel construction. The unit is fully enclosed for safety and to contain aerosols, noise and odour. Inspection and access hatches are provided to aid maintenance.

MILLISCREEN™ - CI SERIES

The Milliscreen™ - CI Series is offered in 600 mm and 900 mm drum diameters with lengths ranging from 600 mm to 1800 mm. The typical flow rates range from 200 to 5000 lpm. This range of smaller rotary sieve screens have the desirable features of the B series except that they are designed for lower flow rates.

MILLISCREEN™ - B SERIES

The Milliscreen™ - B Series is offered in 1500 mm and 2000 mm drum diameters with lengths ranging from 1200 mm to 4000 mm. The typical flow rates range from 5000 to 56000 lpm. These rotary sieve screens are ideally suited for high solid loading and flow rate applications normally associated with meat works, tanneries, pulp and paper, fish processing, sewage and others.

MILLISCREEN™ P2

The Milliscreen™ P2 has all the features of the standard Milliscreen™ except that the screening medium is perforated plate. The Milliscreen™ P2 was developed as a pre-membrane screen for the removal of hair and other stringy fine matter from the effluent. The Milliscreen™ P2 is constructed in 304 or 316 stainless steel with hole sizes of 1 mm and 2 mm offered as standard. Typical flow rates range from 200 to 30,000 lpm.



Mini-Milliscreen™ installed at a winery.

MINI-MILLISCREEN™

The Mini-Milliscreen™ is an extension of the Milliscreen™, designed to solve small but big solid/liquid separation flow problems. It incorporates many of the proven features of the larger models and is efficiently capable of handling flow rates from 10 to 600 lpm. The Mini-Milliscreen™ is directly driven, light weight and compact for ease of handling, installation and operation.

MILLISCREEN™ - B SERIES

Industry	Slot Size (mm)	Application	Peak flow through models in (lpm)				
			15/12	15/15	15/18	15/21	15/24
Pulp & Paper	1.50	Mill Effluent	7574	11746	14319	17773	22749
Meat Processing	1.00	Total Works Effluent	3483	4064	4686	5866	8887
Meat Processing	0.75	Killing Floor Waste	2710	3162	3613	4517	5420
Meat Processing	0.75	Paunch & Stock Yard	3399	4531	4680	5850	7020
Canning	1.00	Total Effluent	6802	7935	9069	11336	13604
Tanning	1.00	Total Effluent	2466	2877	3287	4109	4931
Poultry	0.50	Offal or Feather	3025	3529	4033	5041	6050
Seafood Process	0.50	Total Effluent	2787	3251	3716	4645	5574
Textile	0.50	Wool Fines	4463	5207	5951	7439	8927

Industry	Slot Size (mm)	Application	Peak flow through models in (lpm)			
			15/27	15/30	15/40	20/40
Pulp & Paper	1.50	Mill Effluent	25591	28438	40100	50303
Meat Processing	1.00	Total Works Effluent	8129	9290	13161	17504
Meat Processing	0.75	Killing Floor Waste	6324	7237	10238	13615
Meat Processing	0.75	Paunch & Stock Yard	8190	9360	13260	17635
Canning	1.00	Total Effluent	15871	18138	25696	34175
Tanning	1.00	Total Effluent	5916	6575	9314	12387
Poultry	0.50	Offal or Feather	7058	8066	10755	14304
Seafood Process	0.50	Total Effluent	6503	7432	9909	13179
Textile	0.50	Wool Fines	10415	11903	15870	21110

MINI MILLISCREEN™

Industry	Slot Size (mm)	Application	Peak flow through models in (lpm)		
			300M	450M	600M
Pulp & Paper	1.50	Mill Effluent	149	315	552
Meat Processing	1.00	Total Works Effluent	52	110	193
Meat Processing	0.75	Killing Floor Waste	45	85	149
Meat Processing	0.75	Paunch & Stock Yard	62	131	229
Canning	1.00	Total Effluent	124	261	457
Tanning	1.00	Total Effluent	38	71	125
Poultry	0.50	Total Effluent	46	97	171
Seafood Process	0.50	Total Effluent	50	104	183

The data contained in this document is for informational purposes only and values are typical. Please contact Aqseptence Group for confirmation.