INTERNALLY FED DRUM SCREEN IFD

Applications

- Pre-treatment of municipal wastewater plants
- Industrial wastewater treatment

Working principle:

The IFD is an internally fed, rotary fine screen. The cylindrical screen drum, constructed from perforated plate and/or wedge wire ensures the maximum possible level of solids capture compared to many others screens. The effluent is either pumped or flows by gravity into a weir tanklocated inside the screen drum that provides to reduce the turbulence and flows the effluent into the rotating surface of the drum. The drum rotates at a low speed in the opposite direction to the effluent flow.

Screened effluent passes
through the drum screen surface into the tank from where it is discharged for further processing. The solids captured inside the screen drum are moved towards the discharge end by plates fixed on the internal surface of the drum.
The solids in the conveying zone are continuously . The *screen* drum is cleaned by the external washing system and as optional an internal washing system .
The screen drum is attached to a sprocket . The drum rotates on 3 or 4 trunnions (depending from the diameter of the drum)
The IFD can be offered in stainless steel Aisi 304 or Aisi 316
The equipment is fully enclosed for safety and to contain aerosols, noise and odour. Inspection and access covers are provided to aid maintenance.

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IFD standard sizes:

INTERNALLY FED DRUM SCREEN IFD

FLOW CAPACITY TABLE (Imperial)

Application	Screen opening (in)	IFD 07/1000 gpm	IFD 07/1200 gpm	IFD 07/1500 gpm	IFD 10/1200 gpm	IFD 12/1800 gpm	IFD 15/1800 gpm	IFD 15/2500 gpm
Municipal	0.1”	490	640	820	1300	1760	2850	3340
Pulp &paper	0.03” 0.04”	245 304	338 435	409 544	550 700	838 987	1250 1740	1639 2241
Fruit/veget.	0.02” 0.03”	285 304	384 409	484 502	650 790	938 987	1440 2040	1540 2138
Seafood	0.02” 0.03”	230 245	304 338	409 438	550 600	838 938	1344 1440	1738 1889
Meat process	0.02” 0.03”	218 245	285 338	367 438	500 600	807 938	1290 1440	1690 1889
Poultry	0.02”	229	299	387	550	737	1400	1784

FLOW CAPACITY TABLE (Metric)

Application	Screen opening (mm)	IFD 07/1000 mc/h	IFD 07/1200 mc/h	IFD 07/1500 mc/h	IFD 10/1200 mc/h	IFD 12/1800 mc/h	IFD 15/1800 mc/h	IFD 15/2500 mc/h
Municipal	2,5	111	145	186	295	399	647	758
Pulp &paper	0.75 1	56 69	77 99	93 123	125 159	190 224	283 395	372 508
Fruit/veget.	0.5 0.75	64 69	87 93	110 114	147 179	213 224	327 463	349 485
Seafood	0.5 0.75	52 56	69 77	93 99	125 136	190 213	305 327	395 429
Meat process	0.5 0.75	50 56	65 77	83 99	114 136	183 213	292 327	383 429
Poultry	0.5	52	68	88	125	181	317	405

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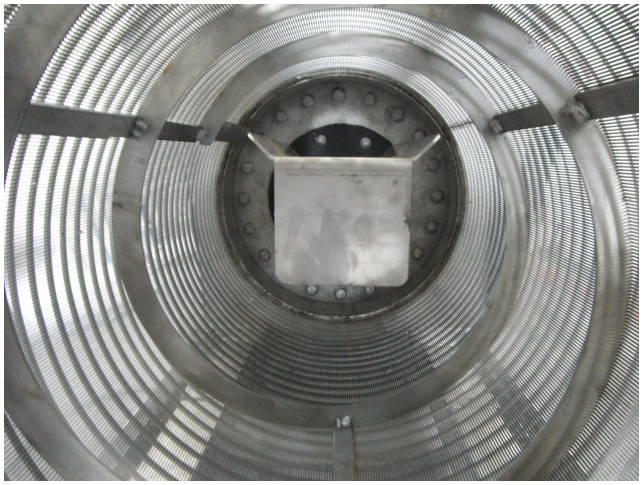

The integrated washing system internal ed external will give the full warranty of a perfect and continuous efficiency of the screen during the filtration of the effluent.

Suitable to be installed in many field of activity:

Food industry

Paper mill

Slaughterhouse

Municipal WWTP

Chemical

Beverage

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