

TurboDrum IF™

Internally Fed Drum Screen

Headworks®

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MUNICIPAL WASTEWATER

The treatment of municipal wastewater is experiencing tremendous change today with the development of advanced treatment systems such as Membrane Bio Reactors (MBR), Moving Bed Biofilm Reactors (MBBR) and Integrated Fixed-Film Activated Sludge (IFAS) processes. These processes have performed exceptionally well in achieving the new higher levels of treatment required today but also require higher levels of screenings removal (liquid-solid separation) in front of the processes. Headworks Internally Fed Drum Screens are a cost effective way to achieve these removal challenges. This equipment is available in a wide range of hydraulic and separation capacities to allow customizing for the most effective solution for your unique application.

- 304 or 316 stainless steel
- 0.25 to 4 mm wedgewire, 1 - 6mm perforated plate, or wire mesh
- Dual spray screen washer system
- Adjustable speed control
- Internally fed
- Dual discharge inlet headbox
- Helicoid arranged discharge blades
- Wedgewire slot transversal to flow
- Flows up to 2400 m³/d or 15.2 MGD

Primary Municipal and Industrial Treatment

Maximum process efficiency of these advanced treatment processes is best achieved with fine liquid-solid separation. Removal of hair, fibers and suspended material from wastewater also minimizes operation and maintenance costs. Headworks' Drum Screen's efficiency in these applications- where they sometimes operate at near nominal flow capacity – is due to high fiber concentration in the solids load. These fibers agglomerate and absorb grease as they tumble towards the discharge end of the screen, cleaning the openings, allowing liquid to drain, and enhancing the effectiveness of the rotary screens dual spray wash system.

The screened solids are easily compressed to a dry screenings content of 35%, significantly reducing their volume and making them easy to transport. The Headworks Screwfactor™ line of screw presses are especially designed for this application.



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Municipal Applications

- MBR fine screens
- Package treatment plants
- Piped influent applications
- Process screening
- Sludge dewatering
- Sludge thickening

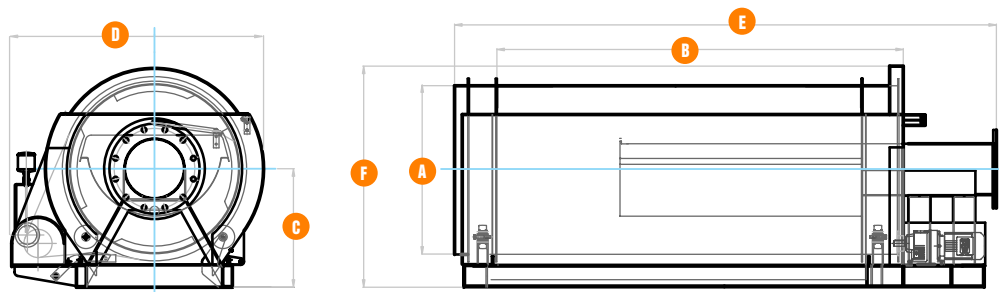
OPTIONAL EQUIPMENT



The turbulent zone of influence created by the optional patented **TurboWash™** agitator loosens and emulsifies the organic BOD material on screenings.

MODEL	FLOW* (slot openings in mm)										DIMENSION (mm) See chart below						
	0.5		0.75		1.0		1.5		2.0		A	B	C	D	E	F	Kg
	m³/hr	gpm	m³/hr	gpm	m³/hr	gpm	m³/hr	gpm	m³/hr	gpm							
IF 0608	55	242	65	286	75	286	90	396	90	396	600	800	480	980	1504	820	190
IF 0612	85	374	100	440	115	506	115	506	115	506	600	1200	480	980	2000	820	280
IF 0910	160	704	175	770	190	836	190	836	190	836	900	1000	640	1350	1940	1180	400
IF 0915	230	1012	260	1145	295	1299	295	1299	295	1299	900	1500	640	1350	2440	1180	500
IF 0920	300	1320	350	1540	400	1760	400	1760	400	1760	900	2000	640	1350	2940	1180	600
IF 1220	400	1760	450	1980	530	2332	530	2332	530	2332	1200	2000	830	1800	3120	1500	850
IF 1226	540	2376	600	2640	720	3168	720	3168	720	3168	1200	2600	830	1800	3750	1500	980
IF 1525	750	3300	850	3740	950	4180	950	4180	950	4180	1500	2500	1100	2160	4300	1960	1530
IF 1540	1000	4400	1300	5720	1550	6820	1550	6820	1550	6820	1500	4000	1100	2160	5800	1960	2200
IF 2040	1400	6160	1700	7480	2100	9240	2400	10560	2400	10560	2000	4000	1335	2635	6100	2475	2600

*Based on clean water.



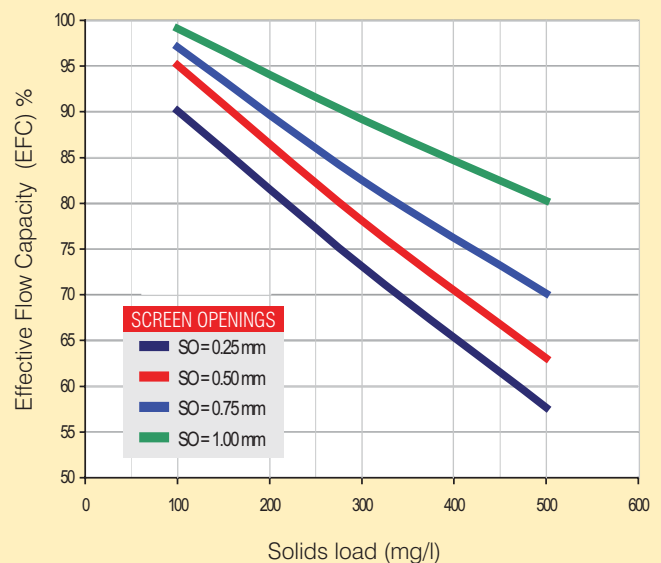
Choosing the Right Screen for your Application

Use the chart to the right to determine the most effective solution for your application by measuring your Effective Flow Capacity (EFC) related to Total Suspended Solids (TSS) of Fat, Oil and Grease (FOG). Solids quality and concentration, and fats, oil and grease content can significantly affect EFC. A FOG content of 100 mg/l was considered for the curves in the chart. Typical municipal wastewater has an EFC of 250 mg/L

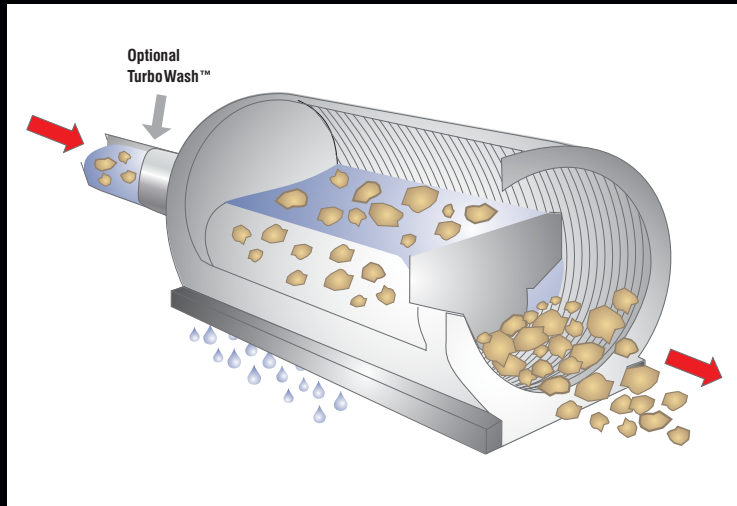
Industrial Applications

- Tanning
- Meat processors
- Fish farms
- Food processors
- Rendering plants
- Pulp and paper plants
- Wineries

Effective Flow Capacity in Municipal Sewage



For a detailed explanation of Effective Flow Capacity (EFC), contact your local representative or call Headworks at +1.713.647.6667



TurboDrum IF™

Headworks® Internally-fed horizontally-operating drum screen,
with dual overflow headbox with clean-out/drain connection



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