

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

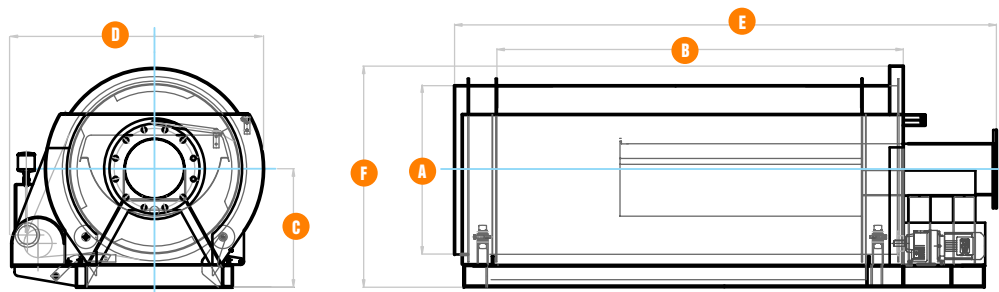
OPTIONAL EQUIPMENT



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.



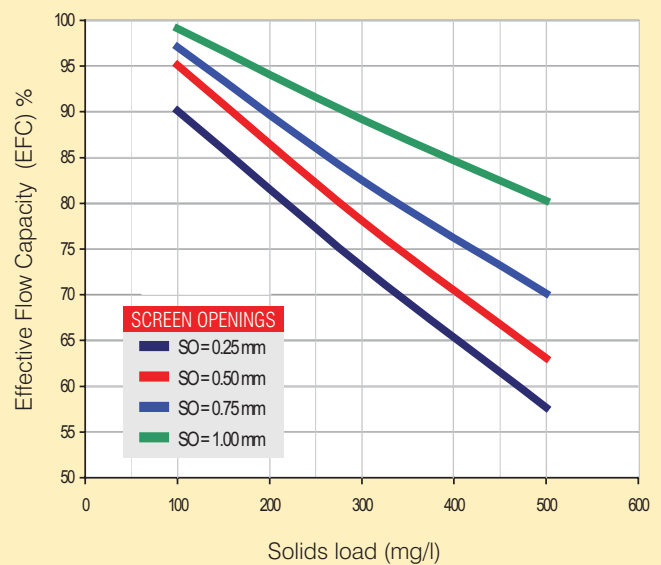
Choosing the Right Screen for your Application

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

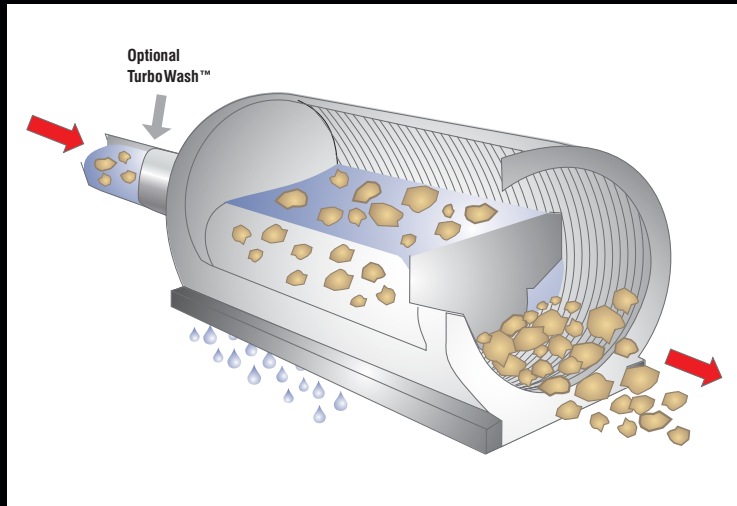
Industrial Applications

- 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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