

HYDROCAL ROTARY SCREEN

IFU Series of Internally fed Rotary Screens have cylindrical drums mounted horizontally on four shaft-mounted wheels. The drum rotates at 4 rpm and is driven by a TEFC motor, geardrive, stainless steel roller chain and sprocket. The IFU/W series screening element is slotted, wedgewire screen, with openings ranging from 0.010 to 0.100 inches, and the IFU/M series screen has a mesh lining, with openings from 100 to 500 microns. The IFU is a compact uni-frame screen that typically is applied to effluents containing moderate to low solid loadings.

METHOD OF OPERATION

The influent enters a headbox, which extends 2/3 the length of the drum, where the flow is evenly distributed onto the sidewalls of the drum. Solids are retained on the screen surface as the liquid flows radially through the openings. Splashguards direct the liquid filtrate to a central drainage area, and the solids are transported axially, by flights, to the open end of the drum. The rotation of the drum allows the entire screening surface to be continuously or intermittently washed by a fixed external spray bar fitted with a bank of fan-jet, spray nozzles.

FEATURES

- All 304 stainless steel construction
- Unitary body
- TEFC motor and geardrive
- Stainless steel roller chain
- UHMW polyethylene wheels c/w internal bearings
- Internal flights
- External spray bar
- Vapour enclosure
- Drainage pan
- Solids chute

OPTIONS

- 316 stainless steel construction
- Mesh lined drum
- Chain oiler
- Internal spray bar
- Wash down motor
- Control panel c/w starter, spray bar timer and/or frequency drive



FLOW CAPACITIES (US gpm)

Applications	Screen Openings	IFU 3036	IFU 3048	IFU 3060	IFU 4248	IFU 4272	IFU 5472	IFU 5496
Municipal Primary	0.100"	600	800	1000	1400	2000	2800	3600
Pulp/Paper White Water	100 Mesh	130	180	230	300	450	640	850
Total Effluent	0.030"	260	350	420	550	850	1200	1600
Debarking	0.040"	320	455	560	700	1000	1700	2200
Fruit/Vegetables	0.020"	300	400	500	650	950	1400	1500
Process Water	0.030"	320	420	520	790	1000	2000	2100
Seafood Processing	0.020"	240	320	420	555	850	1300	1700
Plant Effluent	0.030"	260	350	450	600	900	1400	1850
Meat Processing	0.020"	240	320	420	550	850	1300	1700
Plant Effluent	0.030"	260	350	450	600	900	1400	1850
Poultry Plant Effluent	0.020"	240	320	420	1930	550	1300	1700

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