

Filter**ONE** USA, LLC.

Information Sheet No. 6

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F1 InFloMax™ Continuous Screen

The Filter**ONE** F1 InFloMax™ Continuous Screen is a robust, reliable, and fully automated influent bar screen that captures solids from a moving wastewater stream in a channel, conveys the screenings to the top of the channel, and discharges the solids into a compactor or conveyor, prior to disposal at a landfill.

The F1 InFloMax™ Continuous Screen is capable of performing in a wide variety of both municipal and industrial applications.

The F1 InFloMax™ Continuous Screen can be designed with either 3 mm, 6 mm, or 15 mm screening element spaces, to remove the required solids from a wastewater treatment facility influent. The molded plastic elements are assembled together on a series of stainless steel shafts, with each element being supported by two parallel shafts, adjacent elements alternating between the leading and trailing shafts. The shafts are supported by stainless steel chain links, located on both sides, to form a complete screening belt.

At the top of the screen, the belt changes direction and travels through the discharge area and most larger solids fall off the face of the screening belt by gravity. In the discharge area, the belt changes direction for a second time, and any remaining screenings are wiped off each leading row of elements, by a unique cleaning interaction with the row of elements that follows. Thus, the elements are truly self-cleaning, and the interaction of each row of elements, and the changes in belt direction, are the main means of discharging solids from the belt. As the tips of the elements in each row of elements do not retract fully, and are not cleaned by the same interaction as the face of the elements, a rotating brush is provided to assist in removing any screenings that may hang up on the tips.

The standard unit is designed and manufactured completely of 304 stainless steel (with upgrades in 316 stainless steel available), with the exception of the elements, rotating brush, side seals, and chain cover.

The F1 InFloMax™ Continuous Screen can be coupled with an F1 Compactor, or an F1 Screenings WasherCompactor, to provide a complete screenings removal and handling system for the headworks of wastewater treatment facility.

For a user friendly, trouble free, and extremely reliable influent bar screen, make the Filter**ONE** F1 InFloMax™ Continuous Screen your first and only choice

Filter**ONE**'s Equipment is American made—keep America working!