AUTO-SCREEN BASIC MECHANICAL SCREENING

The Auto-screen is a low cost uncomplicated and efficient mechanical Separator suitable for screening solids from Wastewater and Effluent. It enables the liquid fraction to be more easily stored, managed, distributed, treated or re-cycled. The Auto-Screen employs the same technology as the first stage of the Groundhog Slurry Separator.

A typical screening application for the Auto-screen would be for the removal of solids from livestock farm dairy or yard washings, vegetable processing, slaughterhouse wastes or AD plants, where the dry matter content of the solids is not so important to require the Groundhog Separator.

The effluent flows over a perforated stainless steel screen where slowly rotating polypropylene brushes remove the solids which do not pass through the perforated screen. The type of installation it is required for will determine the perforation hole size. Outputs of up to 54m/hr (12,000 gallons/hr) can be achieved and solids removed are in the region of 9% dry matter depending upon material being separated.

A submersible pump is usually recommended to supply the raw effluent to the Auto-screen and a constant flow of material is presented to the screen by virtue of a weir at the inlet. To provide sufficient headroom for solids collection and liquid storage it is recommended to install the Auto-screen in an elevated position. A platform extension is available for this purpose if required. For effluents where there is a risk of coagulation e.g. fats, spray nozzles are available to clean screens and brushes.

The Auto-screen is available as a basic model complete with support structure or with a feed pump and fully integrated control panel for automatic operation.

The Auto-screen stand is hot dip galvanised with stainless steel screens and GRP removable guards. Powered by a 0.25 Kw motor and with brushes revolving at only 13 RPM, maintenance and running costs are negligible.

Model 600
Auto-screen removing vegetable Solids prior to biological treatment of the Effluent.

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