



The Arlat grit classifier is designed to accept concentrated grit slurry, via gravity or grit pump, settle the fine particles into the transport screw trough, and then wash organic material from the grit prior to discharge.

Grit can be removed from wastewater influent streams by using a centrifugal force in a vortex tank separator or by using a mixture of gravity and air pressure in the aerated grit tanks. Once the grit is removed the concentrated slurry is sent to a classifier in order to further reduce the water and organic content. Quite often this grit has been in the collection system for a long period of time and because of its prolonged exposure to sewage it can be coated in a substantial amount of organic matter. In order to remove this matter so that it can be treated in the plant, the grit is scrubbed in a grit classifier, thus removing the associated putrescent odour.



The overall dimensions of the classifier are varied to suit the customer's flows and grit concentrations. If a grit pump is used to transport the slurry, the settling tanks can be significantly more compact if a cyclone separator is added ahead of the classifier.

Use of an Arlat GC grit classifier will assure you of many years of uninterrupted service. The use of stainless steel trough and reservoir, together with the non-clogging features of the shaftless screw and the elimination of any submerged bearings, will provide you with a machine life cycle that is unmatched by other equipment available in the market place.

Although the majority of the washer/compactor components are manufactured from 304SS, UHMW is widely used to significantly reduce wear, noise and replacement costs compared to competitive machines.

GC GRIT CLASSIFIER





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A variety of options are available to best fit your application:

- 316 Stainless frame and component construction for more corrosive installations
- Discharge bagger option can be used to contain putrescent odours
- Heat tracing for cold weather outdoor installations
- Full PLC control panels are available that can offer;
 - Rotation monitoring
 - Fluid differential monitoring
 - Speed control for the screen drive system
 - Continuous mode operation during high flow periods
 - Full head works package integration

Technical Information:

- Shaftless flighting
 - (3) sizes ranges are available to best suit your channel size and application
 - Flighting is constructed from AR400 for wear resistance to promote long service life
- Material of construction
 - Classifier tank, formed 10 Ga sheet
 - Trough/transport section, formed 10 Ga sheet
 - Screw wear liner, ½" UHMW
 - Mounting frame, painted structural carbon steel
- Drive Assembly
 - 2HP and 3HP motors are typical selections for wastewater applications
 - Drives are protected from excessive current and over-torque
- Sizing calculators are available to aid in selection of the right combination of settling tank size, weir plate and cyclone selection, if applicable

