

CLARIFIER ERUPTION GOT YOU HOT?



- *Is your Clarifier having a problem with eruptions or gas accumulations?*
- *Is your Clarifier experiencing short service runs?*
- *Do turbidity plumes shorten your filter run lengths?*
- *Has your plant's capacity been diminished due to these conditions?*

If you answered yes to any of the above, you may benefit from a retrofit with USFilter Adsorption Clarifier technology.

Adsorption Clarification, a revolutionary up flow process that combines flocculation and clarification into a single treatment step. The Adsorption Clarifier uses special, naturally buoyant media that is held in place by a screen at the top of the clarifier tank.

Adsorption Clarifiers are designed to operate at flow rates that range from 5 to 15 gpm/ft², generally achieving turbidity removal levels of 75-95%.

Application Data

As a fixed medium clarification device, the Adsorption Clarifier combines the functions of mixing, contact flocculation and clarification in a single, compact stage. The Adsorption Clarifiers are ideal for use wherever the following generic processes are considered:

- Sedimentation
- Flocculation/Settling
- Coarse media filtration

Chemical Pretreatment

Adsorption Clarifiers are compatible with most treatment schemes involving chemical coagulation or precipitation to achieve solids removal. This includes alum, ferric sulfate, ferric chloride, sodium aluminate, and cationic polymers. When metal salts are used, a small dose of a nonionic or anionic polymer is effective in improving solids capture in the adsorption media. The process requires little water head, which could save the expense of a pumping step. It can be used with or without chemical feed and is applicable to tertiary phosphorus and suspended solids removal.

For details on our retrofit capabilities, please contact Tim O'Sullivan of USFilter at (508) 347-4534, or e-mail him at osullivant@usfilter.com.

USFilter