Going Beyond Traditional Dead-End and Cross-Flow Filtration
The TEQUATIC™ PLUS Filter

Dead-end Filtration
With dead-end filtration, all the fluid in the water stream passes through the filter screen and all particles larger than the pore size of the filter screen are held at the surface of the screen. However, as the trapped particles build up, a cake layer starts to form on the surface of the filter screen which decreases system efficiency until the filter cake is washed away with a backwash cycle, or until the filter screen is replaced. For filters such as bags and cartridges, this results in higher maintenance, downtime and consumables costs, not to mention more waste disposal (from discarded filters).

Cross-flow Filtration
With traditional cross-flow filtration, the fluid in the water stream runs parallel to the filter screen. The build-up of particles is managed by controlling the velocity of the feedwater flow over the surface of the screen, with the goal of reaching and maintaining an optimum cake thickness over a period of time. The cake layer, however, can still reduce flow and increase pressure across the screen. The TEQUATIC™ PLUS Filter takes cross-flow filtration to a new level. With this product, the cake layer is not allowed to form due to the continuous brushing action of the cleaning assembly. It maintains a good pressure differential across the screen and creates a condition where particles prefer to flow past the screen rather than through it – resulting in even cleaner filtrate.

Innovative Solution
The TEQUATIC™ PLUS Filter goes beyond traditional dead-end and cross-flow filtration, combining the power of continuously cleaning, cross-flow filtration with forced settling and solids collection into a single device. It is specifically designed to process a wide range of high-solids feedwaters from 100 to 10,000 mg/L and greater, filtering down to 15 microns. Call an expert or check out our website to learn more – see reverse side for contact information.
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