

Wastewater Treatment: Dairy Processor

Dissolved Air Flotation (DAF) installation critical for TSS, FOG & BOD reduction.
 Stuart Ward of *Process Engineered Water Equipment, LLC* explains system design...

Case Study

Ehrmann Dairy manufactures Greek style yogurt products at its new Casa Grande AZ facility. As part of the construction the plant needed to install a primary wastewater treatment system. A wwt location was selected on the east side of the property. Here the DAF and Belt Press were placed with an environment cover and the tank farm conveniently adjacent.



New Wastewater Facility

The complete system area measured 125' x 75' including several lift stations, EQ, pH polish and solids tanks, chemical feed stations, DAF, belt filter press, integrated building structures and control system.

PEWE worked closely with the general contractor throughout the construction and installation process. Client requested changes were accommodated as well as several critical custom engineered components specific to the installation. The wwt system DAF is an **HD²XL Rator™ LS-375**. This unit utilizes counter-cross flow hydraulics with regenerative turbine aeration. The DAF can remove 99% TSS and FOG with their associated BOD.



HD²XL Rator LS-375 DAF

Industrial Wastewater System

The DAF solids are collected in a tank and can be either pumped directly to a tanker for wet haul; or alternatively dosed with polymer with a **PolyAccu Dose™** chemical



DeWater Belt Filter Press

feed station and then processed with a **DeWater™ DBP-715** belt filter press. This 1.5 meter system includes twin gravity dewatering zones, air glide auto tracking and a 7 roller graduated pressure process for driest cake possible saving haul costs.



PEWE Technical Services

Final Results

Technical Services provided install start-up support (ISS) on-site until the PEWE **Command Control™** system was up, running and employees trained. The controls featured Siemens components and enclosures suitable to the harsh desert environment. The system offered easy, complete monitoring and control. The new wastewater operators managed the equipment and were able to achieve superior results.



Water Recovery

Pay Off

The Ehrmann yogurt facility is in full production and supported 24 hours a day by the wastewater plant. The wwt system with its efficient **HD²XL Rator™ LS** DAF consistently produces clean water and is well below requirements. This clean and **Green** water provides reliably sustainable surcharges savings now and as the plant continues to grow.



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