Case Study

Energy, Maintenance Costs Cut

US Filter, San Diego, California

The Challenge

Pumpin belt filter press sludge

Eliminate mixing in grit chambers

High pump breakdown and repair costs

The Discflo Solution

Discflo pumps more reliable, less breakdown than previous pumps

Reduced energy needs at grit chambers

Discflo design ideal for viscous, abrasive, high solids fluids

Discflo pumps are cutting energy and maintenance costs at US Filter's Wastewater Treatment Plant in San Diego County. Vertical dry pit Disc Pumps have replaced progressive cavity pumps at the belt filter press sludge feed station - one of the toughest applications at the plant.

In addition, horizontal direct-coupled Discflo pumps have been installed to replace piston pumps for primary sludge pumping to an unstabilized sludge storage tank and to replace centrifugal recessed impeller pumps moving grit from the grit chamber bottoms.

As well as lowering the maintenance bill, the Discflo pumps at the grit chamber are also cutting energy costs. The grit chambers typically require mixers to keep the high solids content in suspension and reduce the load on the pumps. However, thanks to the Discflo pump's unique laminar flow design, US Filter has cut the mixer horsepower required and even turned the mixers off for short periods of time, without affecting the pumps' ability to move the extra thick sludge.

Since start-up in mid-2002, the Discflo pumps have proven both more reliable and less prone to breakdown in all these hard-to-pump applications, reports Gene Palop, US Filter's engineer on the project.

Call Discflo now to find out how our pumps can solve your problems.

DISCFLO
Disc Pumps

Discflo Corporation
10850 Hartley Rd
Santee, CA 92071
Phone: (619) 596-3181
Fax: (619) 449-1990
Sales@Discflo.com
www.Discflo.com