OPTIMIZING CANNABIS OIL PRODUCTION WITH POSITIVE DISPLACEMENT PUMPS

Universal® 2 ND (U2 ND) Positive Displacement Pump



Challenge

A customer in the cannabis industry faced a significant production challenge while processing cannabis oil, ethanol and hemp solids with approximately 10% solid content. They initially selected a centrifugal pump for this application, but it failed within just two hours of startup due to the demanding nature of the fluid and slurry. This failure caused a complete halt in their production line, highlighting the limitations of the centrifugal pump in handling fluids containing substantial solids.



Solution

To address the issue, the Waukesha Cherry-Burrell® U2 ND positive displacement pump was chosen for its proven ability to manage challenging fluids containing solids. The pump's large fluid cavities and anti-cavitation ports are designed to handle slurries with significant chunks and particles, ensuring smooth and efficient pumping. Additionally, the arc-shaped rotors are specifically engineered to lift and transport settled slurry, maintaining a steady flow with minimal pulsation.

Waukesha Cherry-Burrell's distribution network facilitated a swift response, delivering a Waukesha Cherry-Burrell U2 ND pump the following day. The customer was extremely satisfied with its performance, leading them to order additional U2 ND positive displacement pumps.



Result

The quick replacement of the faulty centrifugal pump with a reliable positive displacement pump minimized downtime and avoided further disruptions in the production process. The U2 ND pump's design features allowed it to efficiently handle the challenging slurry with high solid content, ensuring smooth operation and reducing pulsation. The customer's confidence in the solution was strengthened by its proven performance, resulting in additional pump orders to meet their ongoing production needs.

www.spxflow.com/waukesha-cherry-burrell

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