

Product Application Bulletin

LKH Pumps Performing Above the Rest!



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Application: CIP / Ultrafiltration

When a customer was looking for a pump solution that could handle the stringent requirements of their new CIP system in an ultrafiltration application, the [Alfa Laval LKH](#) centrifugal pump was the clear choice. From its compact size, higher flow rates and pressure capabilities to its operational efficiency and condition monitoring features, the LKH rose above the rest.

Within the customer's processing facility, industrial pumps were being utilized for various applications for low viscous fluid transfer. The new system required a hygienic alternative that could accommodate the higher flow rates and pressures. Out of range for other hygienic models in the market, the LKH70 with LKH90 equipped with 100 HP motors can easily handle pressures of up to 80 psi / 5.5 bar and 240 psi / 16.5 bar respectively. This met the customer's performance criteria, but what about efficiency? The older industrial pumps utilized 125 HP motors to achieve similar flow rates. With a 25 HP reduction on each of the eleven LKH pumps installed, the plant is looking to save significantly on its annual utility costs. This exemplifies Alfa Laval's initiative of offering more sustainable solutions.



LKH pumps eagerly await shipment to another challenging application

Floor space was also at a premium and a key criterion for selecting the LKH with its C-faced, close coupled design. Competitive units only offered base mounted models at these sizes, which would have taken up significantly more floor space.

If all of the other advantages weren't enough, the LKH pumps were further equipped with [condition monitors](#) which provide real time access to temperature and vibration via a Bluetooth connection. Actionable notifications enable informed decisions to prevent unplanned downtime and reduced costs.



Alfa Laval condition monitor

The result? The customer was up and running on the first day of installation and has been extremely pleased with the performance.

If you have a challenging application and in need of an innovative process solution, reach out to your local authorized Alfa Laval distributor. Highly skilled and ready to support, our channel partners can assist with proper sizing, selection, engineering, and aftermarket service of our wide portfolio of fluid handling products.

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