

Application Bulletin

Shutdowns, Labor & Excessive Water Loss Virtually Eliminated From HVAC System With Lakos Separators

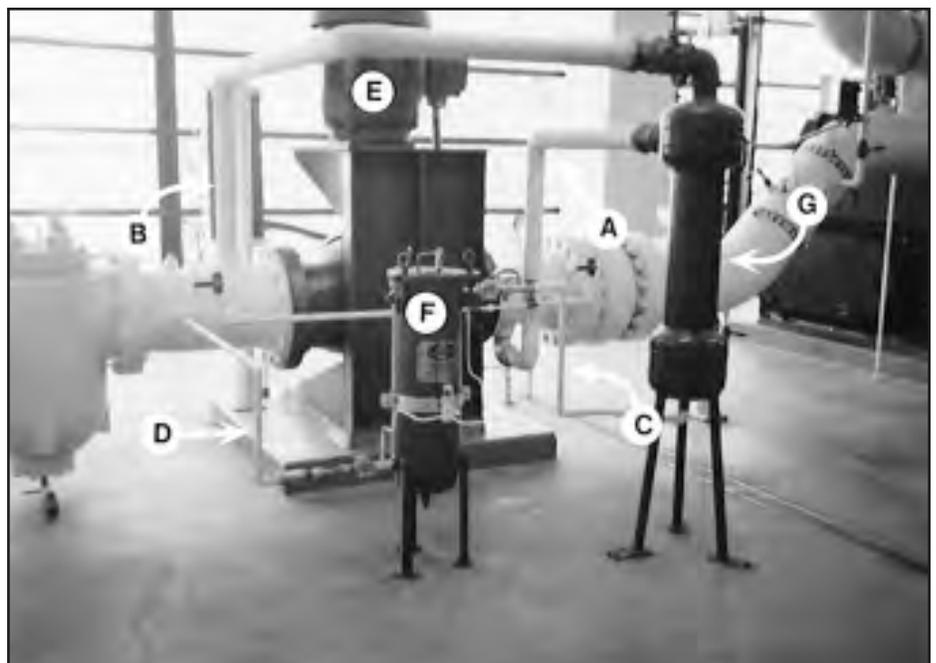
It used to take a weekly eight hours of shutdown time for two men to clean the HVAC system at the office complex of American Honda in Los Angeles, California. Now, with the installation of Lakos In-Line Separators in each of their four cooling loops, a routine cleaning of the purge system during each shift is all it takes.

American Honda's previous eight hour a week cleaning process involved draining four 900-ton cooling towers and then scavenging the basins of each with a portable recirculating filter. This proved to be ineffective and costly because of the waste involved. A new system was urgently needed, one that would remove the particles effectively, without the downtime and water loss.

The side-stream installation of the separators effectively removes abrasive and troublesome particles which come from the cooling towers, as well as scale deposits which could collect in the systems' recirculating condenser loops and decrease the efficiency of heat transfer surfaces. The particles and

continued on reverse

Side-stream flow (A) from the discharge of the system's pump (E) enters the Lakos Separator (G), removing troublesome solids and returning the flow to the system's suction (B). Separated particles are continuously bled (C) into the Lakos CRS system (F), returning purged liquid also to the pump's suction via (D).



scale deposits are then collected into a Lakos Closed Recovery System (CRS), allowing excess purged water to flow back into the HVAC system and eliminating water waste and water treatment chemical waste.

Says Joseph Goss, Chief Engineer in charge of American Honda's HVAC system, "I was worried about severe abrasion and wear to the chiller's condenser tubes and we felt Lakos Separators were the best solution because they are effective without water and chemical loss in the cleaning process. After only 2 weeks, our system was significantly cleaner and has been ever since."

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