

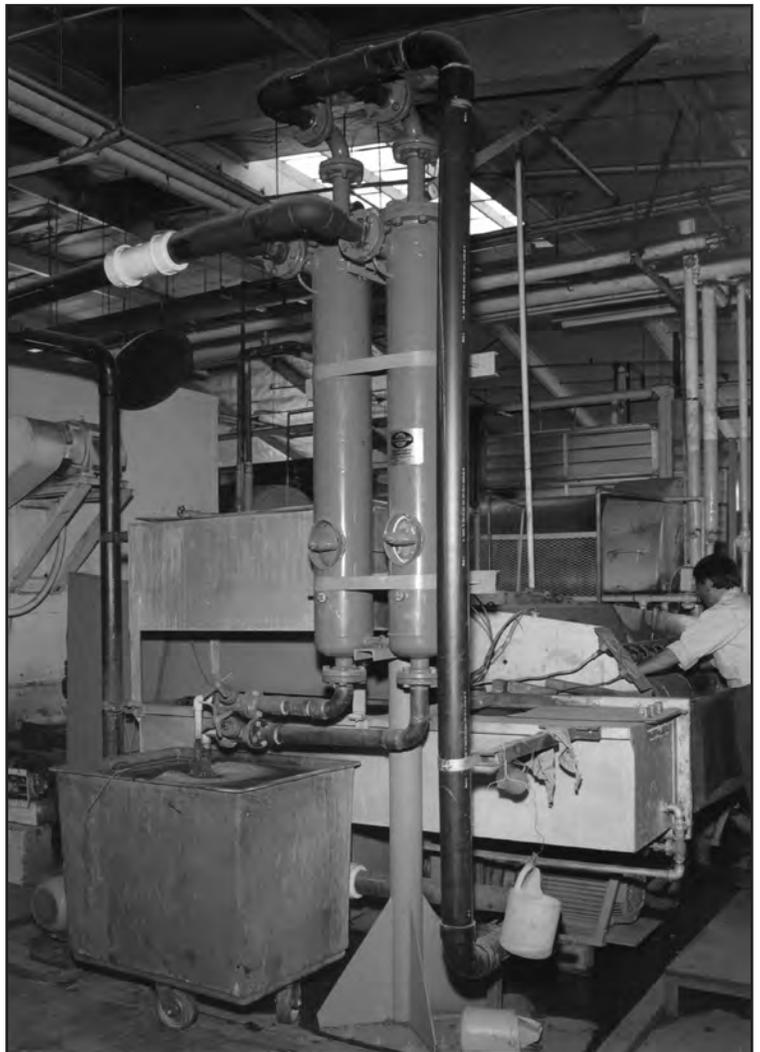
## *Application Bulletin*

### Wash Water Recirculation System

#### Lakos Separators Protect High Pressure Pump and Spray Nozzles

Having eliminated excessive wear to the stainless steel spray nozzles on their carpet washing machine, Valley Industrial Services of Anaheim, California is equally pleased that their Lakos Separators have also reduced wear to the shaft and seals of their high pressure pump and created an effective water recycling system. Nozzle replacement, once a task necessary several times each month, has been dramatically reduced (no excessive wear...or nozzle replacements...in the first five months of operation), noticeably reducing replacement costs, maintenance and down time. Leakage from the high pressure pump's seals has also been corrected. (Note: Pump seals were changed to silicone carbide mechanical seals.)

The system is very simple, relying totally on the performance of two Lakos I-FD Separators to remove sand, grit and other solids from the dirty rinse water. The clean water discharge is returned to their holding tank from which a high pressure pump feeds the spray nozzles used to clean the carpets. The dirty water is then pumped from the carpet washing machine's reservoir to the separators for re-use.



*These two Lakos I-FD Separators, installed in manifold, remove unwanted solids from wash water and purge the solids into a collection tank for easy disposal once a week.*

Handling of the separated solids is achieved with the use of manual pinch valves, installed on the purge of each unit, allowing the separators to purge at a continuous bleed into a large, portable tank. The tank, equipped with a simple weir, allows excess purge water to return to the system. When the tank is full of solids, the purge valves are closed (without having to shut down the system) and the separated solids are removed for proper disposal.



*Excess purged liquid returns to the system via an overflow hose.*

**Others who have used Lakos Separators for similar applications:**

MITSUBISHI COAL MINING; Hokkaido Island, Japan  
PIXLEY RICHARDS; Plymouth, Massachusetts  
MONROE- WHYLIE; Clovelly Park, Australia  
INDUSTRIAL WASHING MACHINE COMPANY; Matawan, New Jersey  
FORD MOTOR COMPANY; Batavia, Ohio  
SIDNEY COOKE FASTENERS PTY.; Ridley ton, Southern Australia  
INDUSTRIAL METAL FABRICATIONS; Detroit, Michigan  
FISHER/GUIDE; Anderson, Indiana  
IMPACT INDUSTRIES; Sandwich, Illinois  
SEPTA; Philadelphia, Pennsylvania  
BRANDON CAR WASH; Brandon, Florida  
RYKO MANUFACTURING; Rimes, Iowa  
AQUA JET SYSTEMS, INC.; Arvada, Colorado  
N/S CORPORATION; Inglewood, California  
FLEETWASH, INC.; Brewster, New York  
ISUZU MOTOR COMPANY; Fujisawa, Japan  
MITSUBISHI MOTORS; Clovelly Park, Southern Australia

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