

# Purification and Reuse of Industrial Clarified Effluents

## The Pall Aria™ Integrated MF/RO System

If you need an additional supply of pure water for critical and utility operations, you could benefit from a Pall Aria Integrated MF/RO system.

By using best-in-class treatment chemicals with a combination of hollow-fiber microfiltration (MF) and reverse osmosis (RO), we can provide you with a highly efficient system for reclaiming effluent water. Not only can the Pall Aria MF/RO system reduce your cost for purchased water, it can provide water that consistently meets critical water quality requirements while effectively protecting the environment.

### Value

- Acquire a consistent, high-quality water source for as much as 50% less than the cost of purchased water.
- Decrease dependency on purchased water.
- Reduce wastewater discharge by as much as 80%.
- Reclaim a scarce water resource.
- Increase operating profit by reusing an existing resource.
- Obtain a source of high-quality water for critical plant and utility use.

### Is This an Opportunity for You?

- Do regulations require you to reuse water before your plant can undergo expansion?
- Do you have more than 100 gpm (23m<sup>3</sup>/hr) of waste effluent that can be reclaimed?
- Do you need high-quality water for boilers and utility operations?
- Are you interested in significant operating cost savings?
- Is your present total water cost more than \$4.00 per 1000 gals (\$1.00/m<sup>3</sup>)?
- Does your effluent have the following characteristics: TSS <100 mg/l,

BOD <100 mg/l, FOG <20 mg/l, and TDS < 2,500 mg/l?

### Why the Pall Aria Integrated MF/RO System?

- Assures consistent production of high-quality water from a reclaimed source.
- Provides an integrity testable, positive barrier to TSS and microbial contaminants.
- Protects downstream processes such as electrodeionization (EDI).
- Delivers highly purified, low TDS water.

### Key Industries

- Chemical processing
- Food and beverage
- Hydrocarbon processing
- Metal working
- Mining
- Pharmaceuticals
- Primary metals
- Pulp and paper

### Features

- Standard designs for trouble-free operation.
- Touch-screen controls for simple operation.
- Modular design for rapid integration.
- Multiple membrane barriers for process protection.

### Why Pall?

- Flexible water management: outsource operations, service contract, or service-on-demand.
- Flexible project financing: capital purchase, lease-to-own, rent, or purchase treated water.
- Streamlined system design and operation using our experience of over 60 years in the field of water treatment.
- Lifetime system support from filtration experts with excellent track records for customer satisfaction.



## Pall Corporation

### Corporate Headquarters

#### Americas

East Hills, NY USA

1.516.801.9906 Phone

1.888.428.5597 Toll Free

#### Europe

#### Middle East

#### Africa

Portsmouth, Hampshire UK

+44 (0) 23 9230 2374 Phone

+44 (0) 23 9230 2509 Fax

Bad Kreuznach, Germany

+49 671 8822130 Phone

+49 671 8959388 Fax

#### Asia Pacific

Bangkok, Thailand

+66 2937 1055 Phone

+66 2937 1066 Fax

**Visit us on the Web at [www.pall.com/water](http://www.pall.com/water)**

**Pall Corporation has offices and plants throughout the world.**

© Copyright 2006 Pall Corporation. Pall, , and Pall Aria are trademarks of Pall Corporation. *Filtration. Separation. Solution.<sup>SM</sup>* is a service mark of Pall Corporation.

*Filtration. Separation. Solution.<sup>SM</sup>*

PASRO4