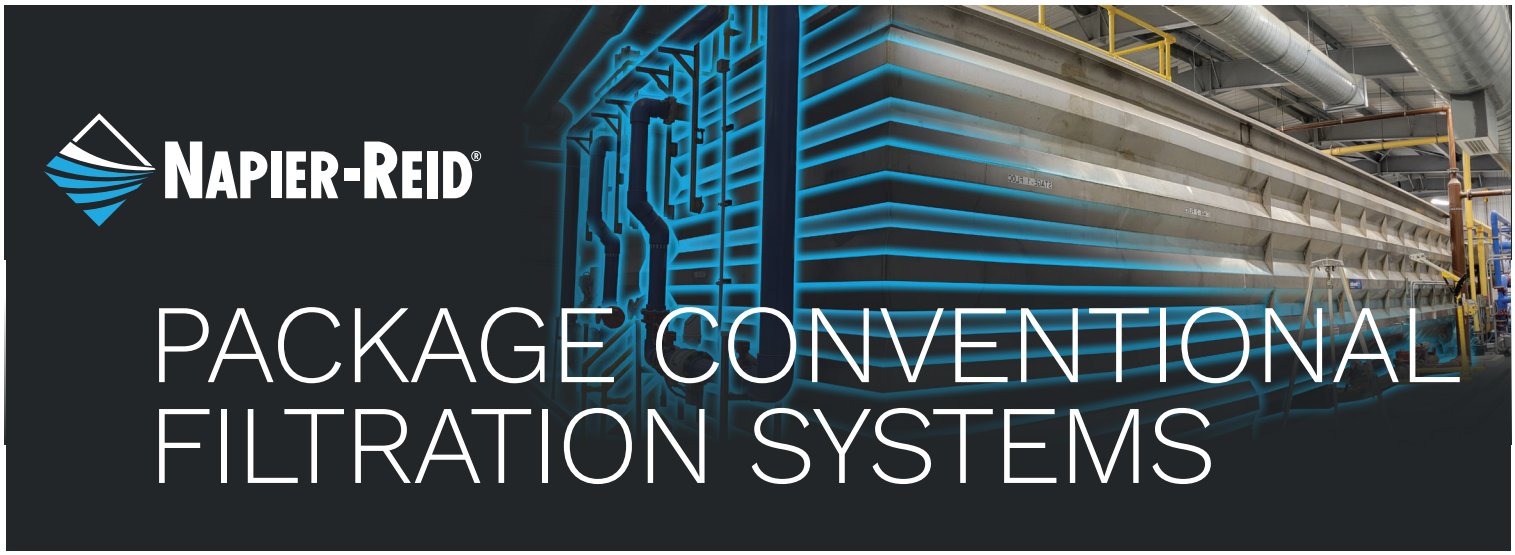


PACKAGE CONVENTIONAL FILTRATION SYSTEMS

Treatment Quality	
Turbidity	<0.3 NTU
Dissolved organic carbon (DOC)	<3 mg/L
Pathogen removal	2-3 log removal

Advantages

- **Stainless steel wavy walls minimize cost** and provide strength and durability.
- **Choose your optimal filter media** including multimedia, GreensandPlus*, MD-80®, and more.
- **Easy** to transport to site, install and start-up
- **Custom-designed and fabricated** to suit process and layout needs
- **Highly automated** for minimized manual operation

Applications

- **Municipal** potable water
- **Industrial** potable or process water
- Surface water and groundwater under direct influence of surface water (GUDI)

Problem

Your plant needs to deliver high-quality potable or process water even in remote locations or within tight footprints. You need a proven solution that integrates all treatment stages into a single compact system while minimizing installation time and O&M costs.

The Napier-Reid® Solution

Package conventional filtration systems integrate coagulation, flocculation, clarification, and media filtration into a single tank for a compact footprint.

The modular system is custom-engineered and factory-assembled for easy transport, installation, and quick start-up.

It features a high degree of automation for minimal operator attention, and flexible media options can be included to address a diverse range of water quality challenges.

**GreensandPlus is a registered trademark of Hungerford & Terry.*

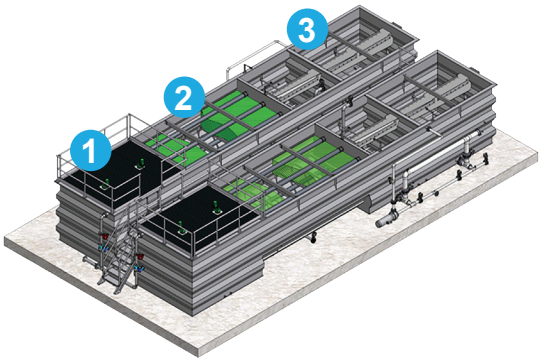
How it works

Raw water enters a rapid mixing zone for **chemical conditioning** (1 *below*) followed by gentle flocculation to form strong flocs.

Clarification 2 occurs in a high-rate clarifier with tube settlers for efficient solids removal.

Finally, water passes through **gravity filters** 3 —available in dual-media, multi-media, GAC, GreensandPlus*, or MD-80®—for final polishing.

Optional UV **disinfection** ensures pathogen inactivation.



CERTIFIED ISO9001:2016

95 Mary Street
Aurora, Ontario
Canada L4G 1G3

+1 905 475 1545
napier-reid.com

AERO-MOD® atac® EDI® EOSi®
MITAwt® NAPIER-REID® Nexom®

Axius Water companies

Designed to be better

Package conventional filtration systems from Napier-Reid® feature unique improvements over past designs by incorporating:

- **Integrated GAC contactor** for enhanced taste and odor removal
- **Wavy-wall tankage** in NSF-acceptable stainless steel material for durability and compliance.
- **CFD simulation** for even flow distribution and optimized performance.

Proven track record

Our history of more than 50 installations worldwide includes Quito, Ecuador's 2,760 m³/day (0.73 MGD) municipal surface water treatment plant.

The system (*below*) integrated coagulation, flocculation, clarification, and filtration in a single compact unit, reducing installation time and ensuring compliance with stringent water quality standards.

Napier-Reid knows water treatment

For more than 75 years Napier-Reid has delivered water treatment solutions across thousands of projects worldwide. Renowned for our innovative designs and quality manufacturing, we provide systems that consistently meet or exceed the most challenging requirements of industries and municipalities alike.





Working with Napier-Reid® is easy and effective

1. We walk you through the project details we need. Move your project forward at **napier-reid.com/contact**
2. We supply design-ready drawings, proprietary technologies, and responsive support.
3. Never worry about your drinking water quality again.

NAPIER-REID®