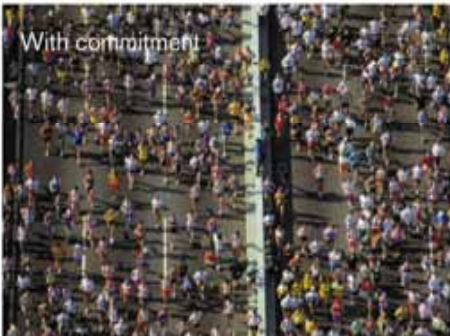




TROJANUV

An Introduction



TROJAN UV
WATER CONFIDENCE™

AGENDA

Introduction

Corporate Capabilities

Trojan UV Solutions

Questions

TROJAN OVERVIEW

- Over 30 years of ultraviolet water treatment experience
- 640+ employees worldwide (approx. 375 in London, Ontario)
- Trojan offices also located in the: U.K., Germany, China, France, Italy, Spain, and the United States
- Largest worldwide installed base of municipal UV systems
- Thousands of UV installations on 6 continents & 80 countries
- Global sales & support
- UV pioneers with dedicated R&D resources & on-site labs
- ISO 9001 Certified, CE, DVGW, UL, CSA, NSF
- Wholly-owned subsidiary of the Danaher Corporation of Washington, D.C. (\$12.0 Bn U.S. parent company) since November 2004

TROJAN BACKGROUND

- 1977 - Began operations – London, ON
- 1981 - First municipal sale, Tillsonburg, ON
- 1987 - First achieved profitability
- 1993 - Listed on Toronto Stock Exchange
- 2003 - Achieved revenues of > \$100 M



Challenges faced in early years:

- Typical challenges faced by start-ups
- Acceptance of new technology
- Validation of systems in new applications
- Speed of regulatory decision-making



TROJAN WORLDWIDE SERVICE & SUPPORT

Logistics & Manufacturing Facilities

Canada, U.S. & Europe

Worldwide Technical Support

24 hours a day/7 days a week

Representative Network

Over 100 offices on 6 continents





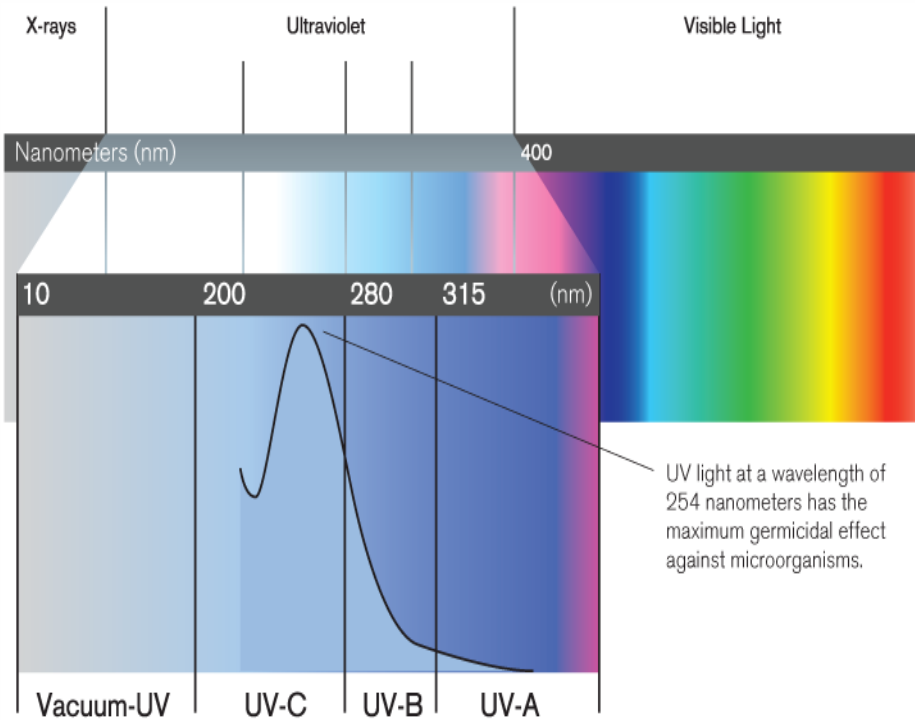
Over 6,500 Municipal Installations
in over 80 countries

TROJAN FOUNDING PRINCIPLE

Trojan is **uniquely positioned** to bring innovative, technology-based solutions to **municipalities, industrial enterprises, and consumers** to solve their water related and process problems in an **environmentally responsible way.**



WHAT IS UV LIGHT?

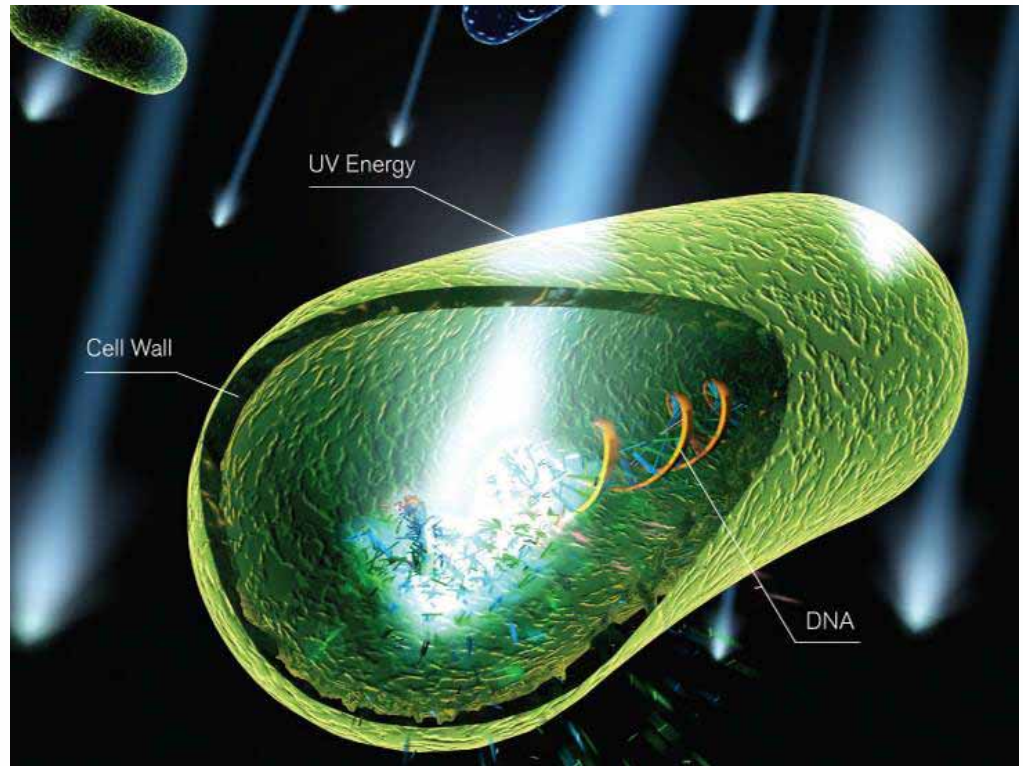


- Ultraviolet (UV) light is invisible to the human eye
- UV is comprised of electromagnetic radiation of wavelengths ranging from 10 nm to 400 nanometers (nm)
- Certain wavelengths of UV light are germicidal – meaning they can neutralize microorganisms

UV APPLICATIONS DISINFECTION

How does UV disinfect?

- UV light penetrates the cell wall
- The UV energy permanently alters the DNA structure of the microorganism
- The microorganism is “inactivated” and unable to reproduce or infect



HOW UV WORKS

TROJAN TECHNOLOGIES BUSINESS SEGMENTS



WASTEWATER



DRINKING WATER



ENVIRONMENTAL
CONTAMINANT TREATMENT



INDUSTRIAL/COMMERCIAL



RESIDENTIAL

TROJAN CORE BUSINESS

Trojan develops, builds, sells and services innovative UV technologies for:

Disinfection	Chemical Destruction	Organics Destruction
<p>Eg. Bacteria, Viruses, Protozoa</p>	<p>Eg. NDMA, MTBE, Pesticides, Herbicides</p>	<p>Eg. Total Organic Carbon</p>
<p>Municipal Wastewater</p> <p>Municipal Drinking Water</p> <p>Private Potable Water</p> <p>Industrial Process Water</p> <p>Industrial Wastewaters</p> <p>Consumer Drinking Water</p>	<p>Municipal Wastewater</p> <p>Municipal Drinking Water</p> <p>Groundwater Remediation</p> <p>Industrial Process Water</p> <p>Industrial Wastewater</p>	<p>Groundwater Remediation</p> <p>Industrial Process Water</p> <p>Industrial Wastewater</p>

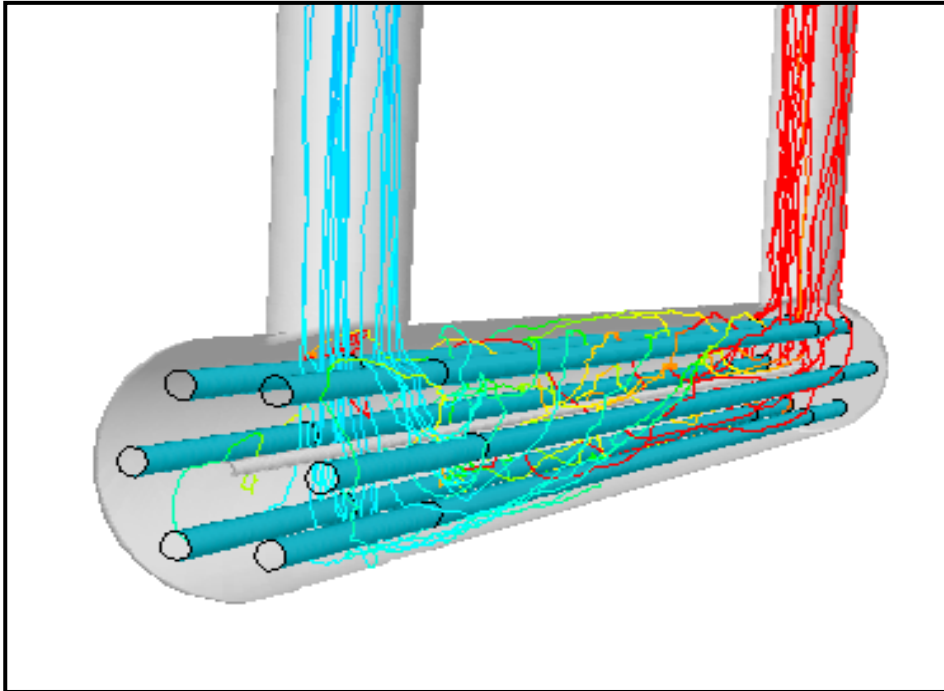
CAPABILITIES CONSISTENT INNOVATION



Trojan Technologies continues to lead the advancement of UV disinfection since the installation of the first open channel UV disinfection for wastewater (UV2000™ in Tillsonburg, Ontario)

- Over 190 Trojan patents granted or pending

CAPABILITIES ADVANCED COMPUTER/CFD DESIGN



CFD allows UV reactors to be optimized for the application – providing the most cost-effective solution for the customer

CAPABILITIES ISO 9001 PRODUCTION FACILITY



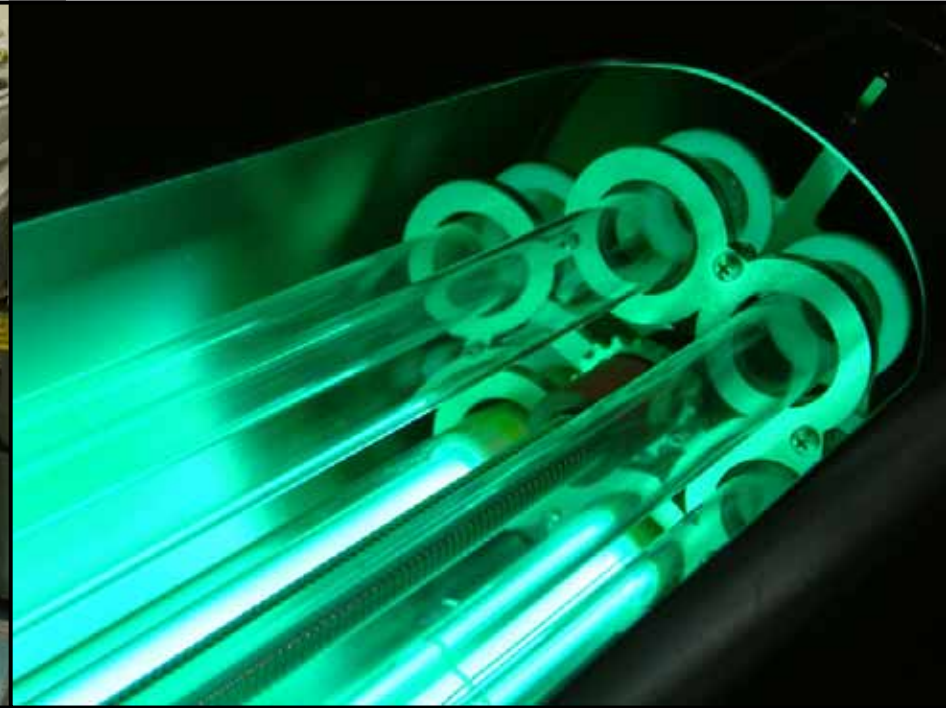
All systems are thoroughly tested before leaving the factory - simplifying installation and accelerating start-up

CAPABILITIES ON-SITE WATER ANALYSIS



Analytical services are provided during project design phase to characterize water quality and confirm project design criteria

CAPABILITIES IN-WATER LAMP TESTING FACILITIES



Lamp output and operating characteristics are researched thoroughly to provide efficient and validated lamp technologies

MARKET ARENAS

Municipal Wastewater

Municipal Drinking Water

Environmental Contaminant Treatment

Industrial/Commercial

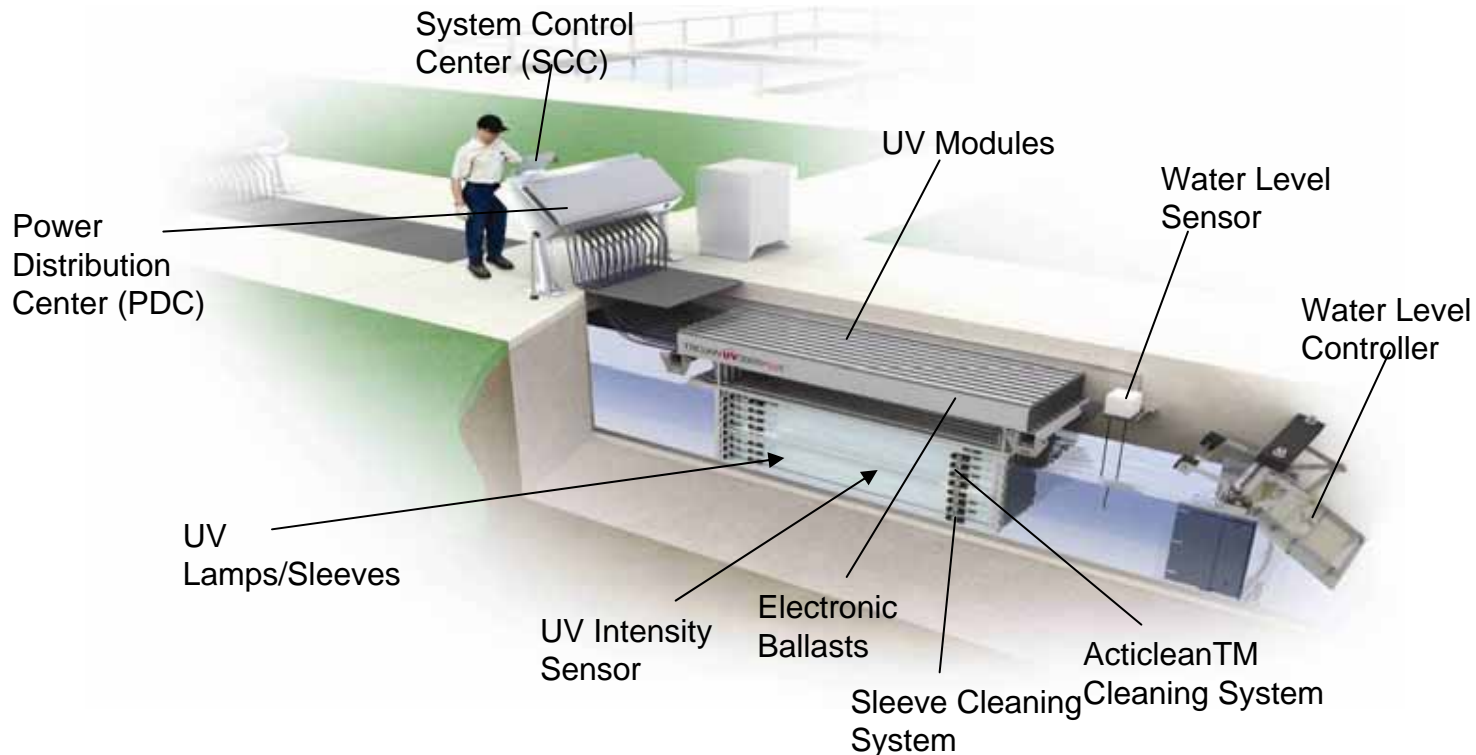
Consumer

MUNICIPAL WASTEWATER TREATMENT

Installations - over 4,500 municipal wastewater systems installed worldwide

Scale of Systems – installed treatment systems from 10,000 GPD to 600 MGD including large cities such as Atlanta, Birmingham, Halifax, Honolulu, Jacksonville, Las Vegas

Sample Applications – primary and secondary wastewater disinfection, wastewater re-use and reclamation, Combined Sewer Overflows (CSOs)



MUNICIPAL WASTEWATER TREATMENT



MUNICIPAL WASTEWATER TREATMENT

25,000 GPD to 1.5 MGD

TROJAN UV3000™ PTP

- 4 to 220 m³ / hr
- Low pressure lamp technology
- Off-the-shelf solution
- Extremely cost-effective
- Manual quartz cleaning
- Optional stainless steel channel
- Bioassay validation



1600 Installations

1.5 MGD to 20 MGD

TROJAN UV3000™ PLUS

- 220 to 3,150 m³/hr
- Amalgam lamp technology
- Variable intensity control
- Optional ActiClean™ quartz sleeve cleaning system
- Bioassay validation



1000 Installations

More than 10 MGD

TROJAN UV4000™ PLUS

- More than 1,575 m³/hr
- Medium pressure lamps
- Variable intensity control
- ActiClean™ quartz sleeve cleaning system
- Bioassay validation



350 Installations

MUNICIPAL DRINKING WATER TREATMENT

Scale of Systems – installed treatment systems from 40 GPM up to 40 MGD per reactor

Installations – worldwide install base; hundreds municipal systems on 3 continents

Locations – Albany, Rotterdam, Seattle, Victoria, Lethbridge, Niagara Falls, Central Lake (Chicago)

Applications – surface water, ground water, reservoir protection, filter backwash treatment



MUNICIPAL DRINKING WATER TREATMENT



MUNICIPAL DRINKING WATER TREATMENT

Up to 7 MGD

TROJAN **UV**SWIFT™ SC

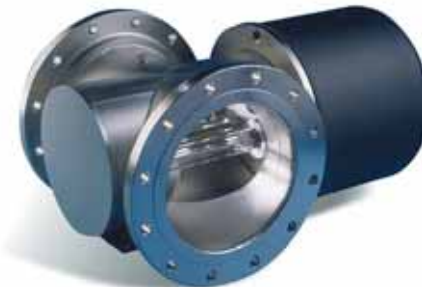
- Up to 1,100 m³/hr
- High output amalgam lamp technology
- Automatic or manual cleaning system
- Compact footprint with horizontal or vertical mounting flexibility
- Regulatory approved sensor
- Optimized reactor hydraulics
- Bioassay validation



Up to 40 MGD

TROJAN **UV**SWIFT™

- Up to 6,300 m³/hr
- Available in 12", 24" and 30" diameters
- Medium pressure high output lamps
- Optional ActiClean™ chemical/mechanical cleaning system
- Compact reactor footprint
- Sophisticated microprocessor-based dosing
- AccUVSensor™
- Bioassay validation

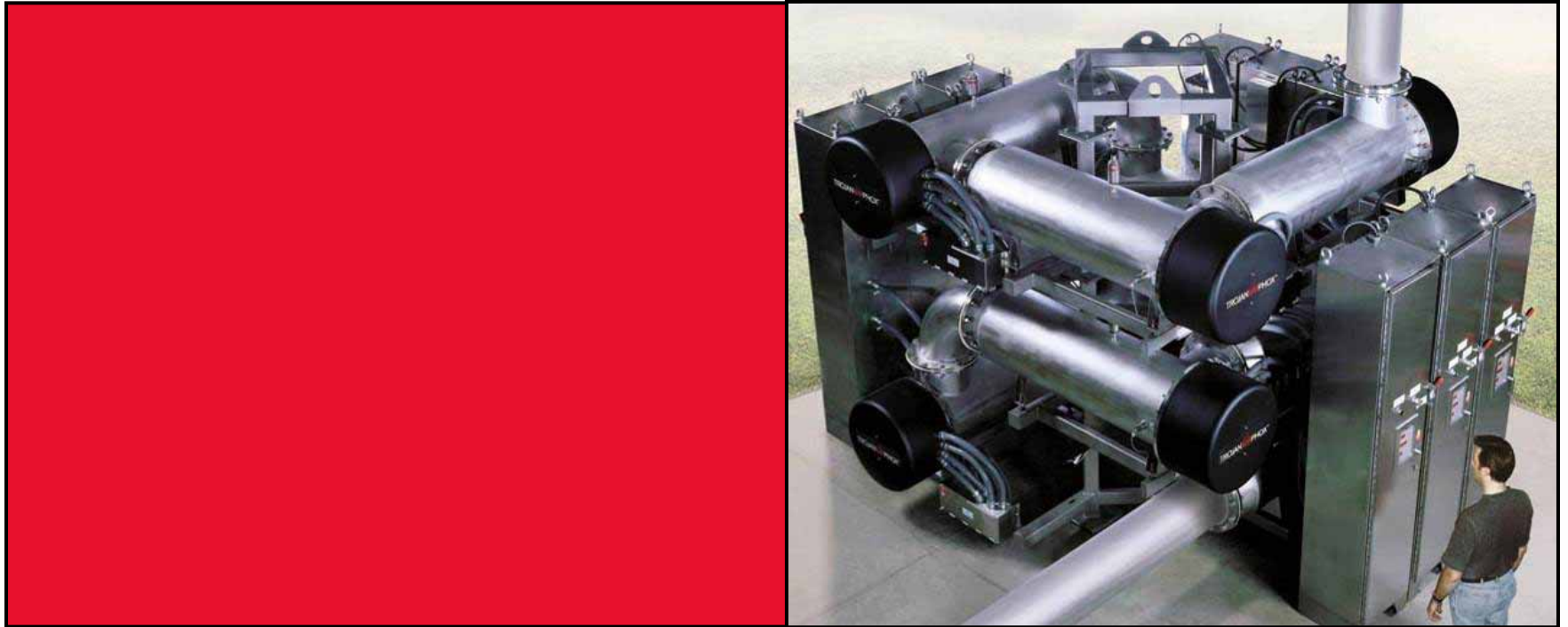


ENVIRONMENTAL CONTAMINANT TREATMENT

- **Installations** – numerous systems around the world treating a variety of contaminants
- **Scale of Systems** – handle capacities from 7 GPM to 100 MGD (Orange County, CA)
- **Projects** – pioneering new UV applications with over \$40 million in systems sold
- **Water Treatment** – trace contaminants and disinfection with UV and hydrogen peroxide in drinking water, water reuse/recycling, industrial processes and wastewater



ENVIRONMENTAL CONTAMINANT TREATMENT

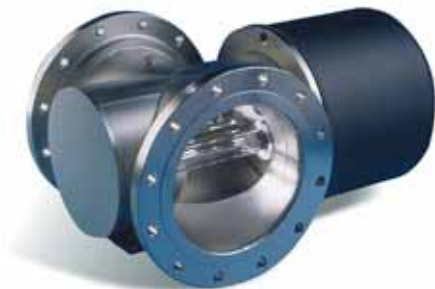


ENVIRONMENTAL CONTAMINANT TREATMENT

Chemical & Microbial Contaminants

TROJAN UV SWIFT™ ECT

- Available in 24" and 30" diameters
- Medium pressure high output lamps
- Integrated with hydrogen peroxide delivery system
- ActiClean™ chemical/mechanical cleaning system
- Compact reactor footprint
- Control algorithm minimizes O&M costs



Chemical & Microbial Contaminants

TROJAN UV PHOX™

- Hydraulically optimized reactor available in multiple configurations
- High efficiency amalgam lamps
- Integrated with hydrogen peroxide delivery system
- Control algorithm reduces power use
- Available with sleeve wiping system

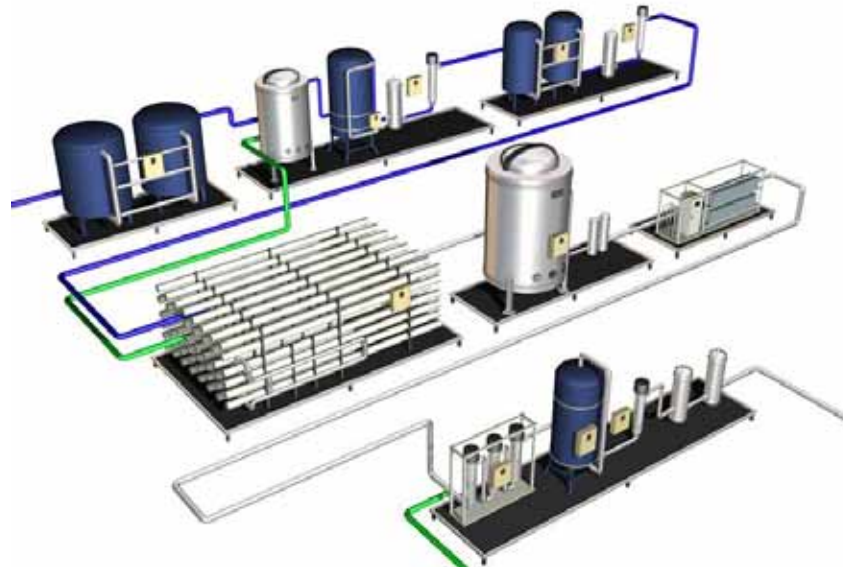


INDUSTRIAL / COMMERCIAL WATER TREATMENT



INDUSTRIAL / COMMERCIAL AQUAFINE

- **Installations** – worldwide installed base; over 3,500 industrial systems on 6 continents
- **Range of Systems** – treatment systems operate from 40 GPM to 8,000 GPM
- **Water Treatment** – disinfection and organics destruction for process and high purity water applications
- Since December 2005, the **Aquafine Corporation** has operated as a strategic business unit of Trojan
 - Aquafine, headquartered in Valencia, California, was established in 1949, and has been a leader and product innovator for the industrial and commercial market sectors for over 55 years.
 - All industrial and commercial processes from sales to order fulfillment, product engineering to manufacturing, shipment to services (including aftermarket) will in time fully reside within Aquafine



INDUSTRIAL / COMMERCIAL WATER TREATMENT

40 GPM to 8,000 GPM

TROJAN UV LOGIC™

- Multiple reactor/lamp configurations
- High output amalgam lamps
- Compact design optimized for high efficiency
- Suprasil™ quartz maximizes 185 nm UV output
- Digital controller with remote monitoring and control capabilities
- Available with sleeve wiping system



40 GPM to 845 GPM

TROJAN UV LOGIC™ PHARMA

- Specifically designed for pharma applications
- 9 different reactor/lamp configurations
- High output amalgam lamps
- Compact design optimized for high efficiency
- High temperature CIP capability
- Digital controller with remote capabilities
- Patented sensor design
- Validated lamps, sensor, and meter



CONSUMER WATER TREATMENT - VIQUA

- **Scale of Systems** – whole home systems from 3 GPM to 47 GPM, and NSF certified systems
- **Installations** – Over 10,000 systems installed in homes, cottages, and commercial settings
- **Water Quality** – incoming water typically 85 - 95% TUV (tap water)



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