



# WATER TREATMENT SOLUTIONS for the NEXUS™

## Modular Hybrid Cooler

*Working in harmony with the innovative Nexus™ Modular Hybrid Cooler design*



Benefits for you,  
your equipment and the environment

### SAVE MONEY



- **Reduce water usage** with optimum bleed.
- **Reduce chemical consumption** with optimum dosage control, less biocide demand.
- **Reduce energy consumption** with cleaner heat transfer surfaces.
- **Reduce cleaning costs** with less site labour for cleaning.

### INCREASE SAFETY AND HYGIENE



- **Maximum hygiene.** Continuous UV light water treatment. All solutions in accordance with local regulations.
- **Safer operation** with automatic chemical dosing system.

### SIMPLIFY OPERATION



- **Efficient.** Designed for best water treatment practice.
- **Flexible.** Customized to users water quality and needs.
- **Fully compatible.** Applicable for variety of water treatment chemicals.
- **Simple.** Easy to install, monitor and service. Remote monitoring and BMS connectivity available. No advanced chemical training required.

### ENHANCE SUSTAINABILITY



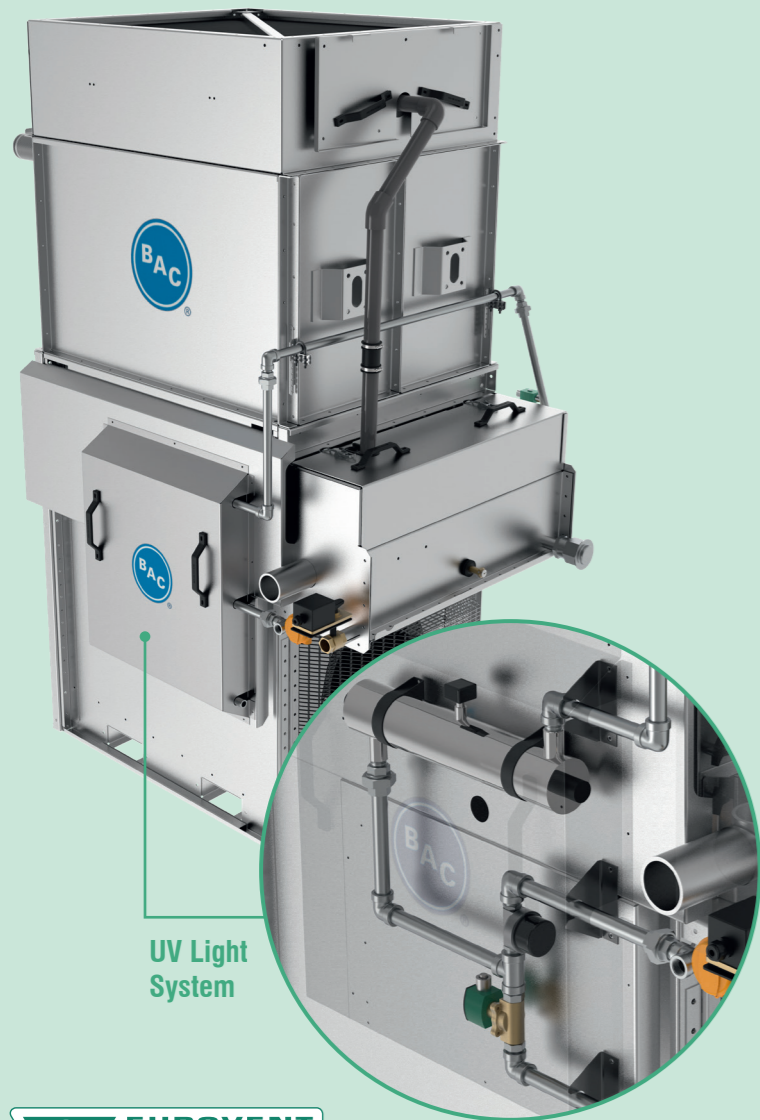
- **Reduce water and chemical usage.**
- **Minimize environmental impact.** Designed to apply green water chemistry.
- **Eliminate some cooling water treatment chemicals.**
- **Increase opportunity for sustainability awards.**

**NEXUS™**  
MODULAR HYBRID COOLER

BLUE by nature  
GREEN at heart

# Nexus™ Modular Hybrid Cooler

WATER TREATMENT SOLUTIONS



UV Light System



More info?  
Contact your local  
BAC representative.

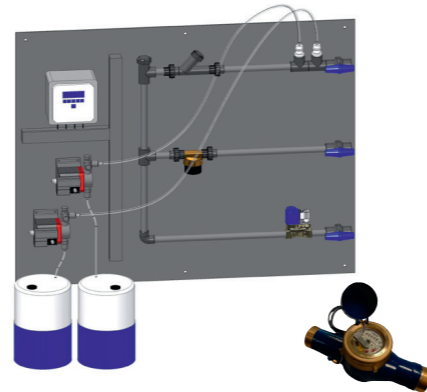


## STANDARD

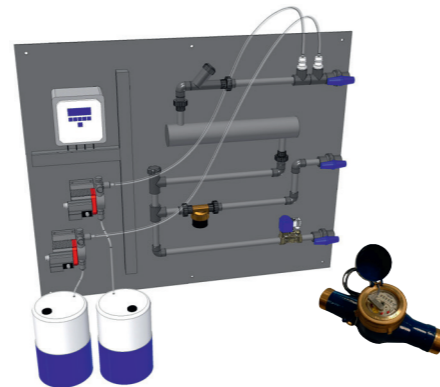
iPilot™  
Control  
System



## TRADITIONAL WATER TREATMENT PACKAGE



## UV LIGHT SYSTEM PACKAGE



## PRE-TREATMENT OPTION



## DiamondClear™ design with built in iPilot™

Automatic bleed control system

- **Minimum water treatment costs:**
  - » 60% smaller spray water volume reduces biocide usage.
  - » Removable basin cover prevents algae growth.
  - » Maintains consistent water quality and reacts to sudden water quality changes through conductivity based bleed.
- **Maximum hygiene**
  - » Automatic bleed and optional daily drain cycle provides regular removal of dirt and bacteria to reset water quality.
  - » Fully-enclosed design is protected from sunlight, helping eliminate algae growth.
- **Compatibility:** Includes a connection for BMS integration.
- **Minimum water usage**
  - » Optimal balanced wet and dry operation.
- **Minimum maintenance costs:**
  - » Sloped spray water collection system diverts water to the compact spray water basin, reducing spray water system volume by 60% and eliminating stagnant water inside through the self cleaning design.
  - » Pressurized, turbulent flow of spray water eliminates the need for sweeper piping, resists clogging and delivers proper water coverage for reducing scaling.
  - » External basin allows inspection during operation.
  - » Entire sump easily accessible from the outside.

## BCP NX 2

Automatic dosing and bleed control package

- **Simplicity:**
  - » Scale inhibitor dosage directly proportional to water usage.
  - » Water meter, chemical pumps and drums included.
  - » Automatic timed dosage of biocide.
  - » Operation fully integrated into the iPilot Control System.
  - » Pre-designed for plug and play installation on Nexus hybrid cooler.
- **Sustainability:** Possibility to use green inhibitors.
- **Flexibility:** Scalable for multiple Nexus modules.

## BCP NX 3 UV

Automatic dosing with UV-lamp providing a 60 mJ/cm<sup>2</sup> dosage and bleed control package

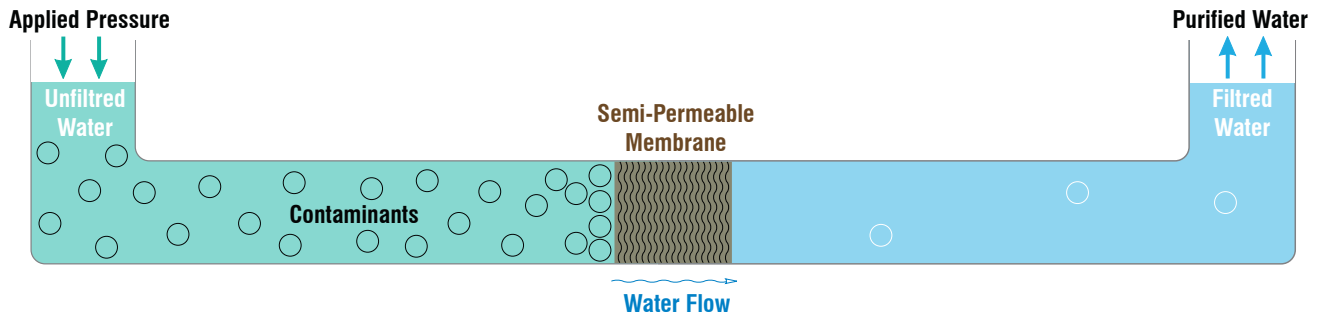
- **Simplicity:**
  - » Sidestream design continuously treats spray water with 254nm UV light.
  - » Built-In Intensity Sensor monitors lamp output.
  - » Scale inhibitor dosage directly proportional to water usage.
  - » Water meter, chemical pumps and drums included.
  - » Automatic timed dosage of secondary biocide.
  - » Integrated into the iPilot control system.
  - » Pre-designed for plug and play installation on Nexus hybrid cooler.
- **Reliability:** Compliant with European hygiene regulations.
- **Flexibility:**
  - » Scalable for multiple Nexus modules.
  - » Pump with degassing head to feed preferred biocide for UV (H2O2).
- **Sustainability:**
  - » Green biocides increases sustainability.
  - » No toxic discharge increases green credentials.

## ZeRO 4 NEXUS

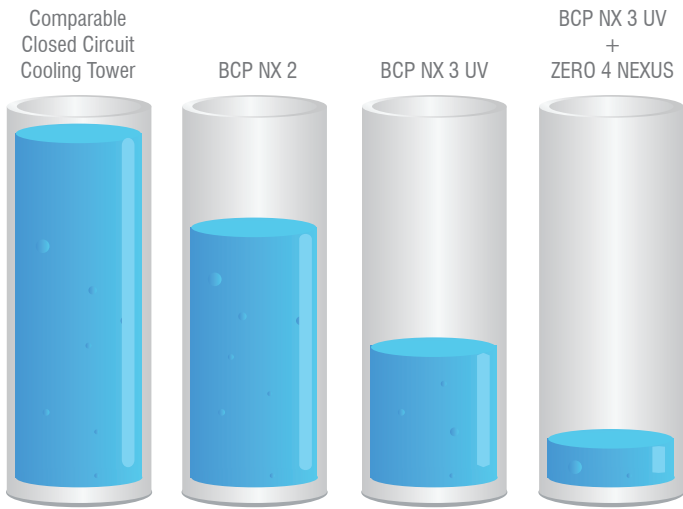
Innovative reverse osmosis (RO) technology designed specifically for the Nexus™ Modular Hybrid Cooler

- **Easy to maintain:**
  - » Elimination of scale/corrosion inhibitors.
  - » Eliminate risk of hCore™ scale, increasing heat transfer efficiency.
  - » Reduce UV light cleaning frequency.
- **Performance:** Maintain optimum UV light performance.
- **Simplicity:**
  - » Plug & play and ease of use.
- **Flexibility:** Completely scalable to serve multiple Nexus modules.
- **Sustainability:**
  - » Creates option for water treatment program without toxic chemicals.
  - » Increases bleed reuse possibility to further enhance green credentials.

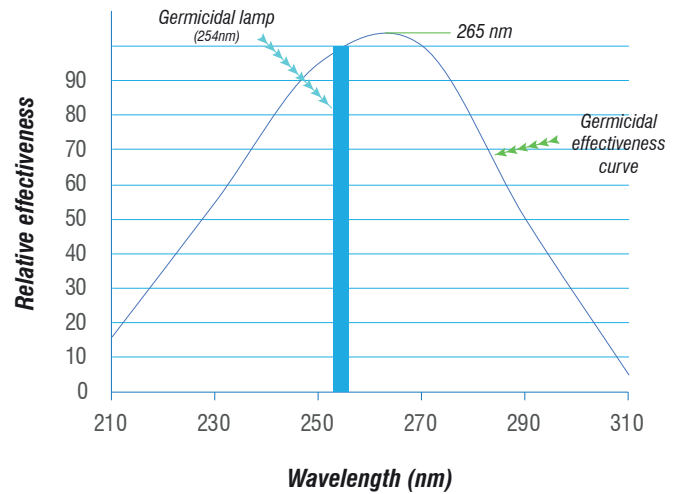
# Reverse Osmosis Process



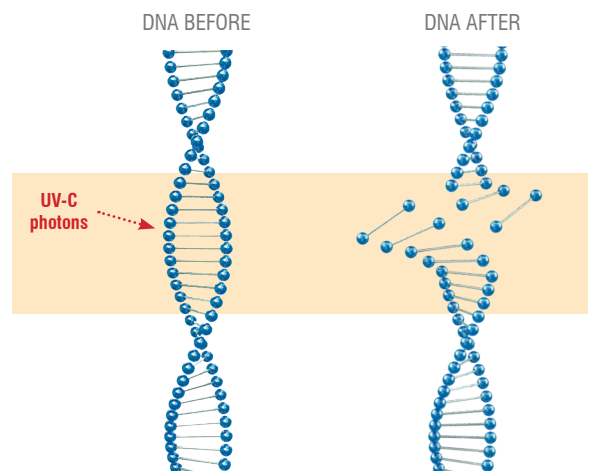
## Water treatment savings



## UV light effectiveness



## How UV light deactivates bacteria



BLUE by nature  
GREEN at heart



www.BaltimoreAircoil.eu  
www.BacSustainability.com  
info@BaltimoreAircoil.eu

**More info?**  
**Contact your local**  
**BAC representative.**