

NICO DRONA NANOBUBBLE SYSTEM PRECISION GAS-LIQUID OPTIMIZATION FOR OIL & GAS WATER SYSTEMS

Oil & gas operations demand efficient, reliable, and scalable water treatment across complex process environments. The **NICO DRONA Nanobubble System** is engineered to enhance gas-liquid interaction, improving water quality, optimizing treatment efficiency, and delivering stable, high-performance outcomes across upstream and downstream operations.

Challenges In Oil & Gas Water Systems

Managing process and produced water presents critical challenges:



Poor Gas-Liquid Interaction

Limits oxidation, separation, and treatment efficiency



High Sulfide & Odor Levels

Creates safety risks and corrosion issues



Chemical-Intensive Treatment

Increases operational cost and environmental impact



Sludge & Contaminant Accumulation

Reduces system efficiency and increases maintenance



Biofilm & Pipeline Fouling

Impacts flow assurance and operational reliability

Key Benefits

Delivering measurable improvements across water and process systems:



Enhanced Treatment Efficiency

Improved oxidation, flotation, and separation performance



Reduced Chemical Usage

Lowers dependency on chemical additives and oxidants



Improved Water Quality

Cleaner water with reduced contaminants and odors



Operational Stability

Reliable performance across varying process conditions



Seamless Integration

Compatible with existing infrastructure and systems

Why NICO DRONA?

NICO DRONA is purpose-built for oil & gas environments, delivering advanced performance through nanobubble technology:



Enhances oxidation and hydrocarbon separation efficiency



Reduces hydrogen sulfide (H₂S) and associated odors



Improves microbial balance for biological treatment processes



Minimizes chemical dependency and sludge formation



Seamlessly integrates into existing water and process systems

Key Application Areas

Designed to optimize water systems across oil & gas operations:



Produced Water Treatment

Improves oxidation, separation, and reuse potential



Sulfide & Odor Control

Reduces H₂S levels and improves operational safety



Refinery Wastewater Optimization

Enhances contaminant breakdown and effluent quality



Pipeline Cleaning & Biofilm Control

Prevents buildup and maintains system efficiency



Sludge & Drilling Mud Treatment

Accelerates degradation and stabilizes waste streams



Enhanced Oil Recovery (EOR) Support

Improves water quality for advanced recovery processes



ISO Certified Quality Standards



Global Presence



Customizable, Application-Specific Solution

Optimize Oil & Gas Water Systems with Advanced Nanobubble Technology.

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