



ICCI E⁴ Precommissioning Cleaning Services:
EXPERT. EXPERIENCED. EFFICIENT. EFFECTIVE.

NAUTILUS ULTRA DRYSM SERVICE



QUICKLY REMOVE 100% OF POST-HYDROTEST WATER AND MOISTURE, AT MUCH LOWER RISK

ICCI Nautilus Ultra Dry service includes a set of proprietary techniques that uses low- to medium-pressure air to safely displace, absorb, and evaporate water from process piping. Our service makes air just as effective as using inert gases—but with far less risk to personnel—and achieves optimal drying results.

APPLICATIONS

- Complete removal of residual water from hydrocarbon processing plants after the hydrotest stages of construction.
- Elimination of corrosion risk when systems are drained after testing.
- Prevention of possible hydrate formation in low-temperature processes.
- Prevention of moisture contamination of product prior to startup.

ADVANTAGES

Dry, oil free air. No additional contaminants (oil or water) enter the system. Dry air is used to first displace the water then absorb remaining moisture quickly and efficiently. The service can achieve dew points up to -70°F.

Safely contains and separates effluent water, air, debris. ICCI's accumulator and three-phase separator safely control air through the process system being dried and contains and separates effluent water, air, and debris. Effluent water, air, and debris are safely caught in the separator. Water is drained to an approved location or recycled, and debris is removed for client disposal.

Heated air removes water faster. ICCI can insert an optional heater between the launcher and the system. This enables a controlled increase in the temperature of air entering the system, which increases the efficiency of the drying operation.

Lower pressure reduces risk. ICCI's proprietary, low- to medium-pressure, pre-commissioning air drying technique substantially reduces risk compared to high-pressure air, inert gas and chemical processes. Optimal drying can be achieved, without extending duration, and impact on adjacent work scopes is minimized.

Non-inert medium reduces risk. Nautilus Ultra Dry services makes drying with air equally as effective as drying with inert gases such as nitrogen. It is also far safer, because the asphyxiant risk is eliminated.

Easily combined with Air+ BlowsSM, Nautilus Hydro Pig[®] and Aqua Milling[®]. ICCI's Air + blows and Nautilus Hydro Pig services for cleaning pipework can be quickly adapted to Nautilus Ultra Dry service for fast, efficient results, with minimal schedule impact.

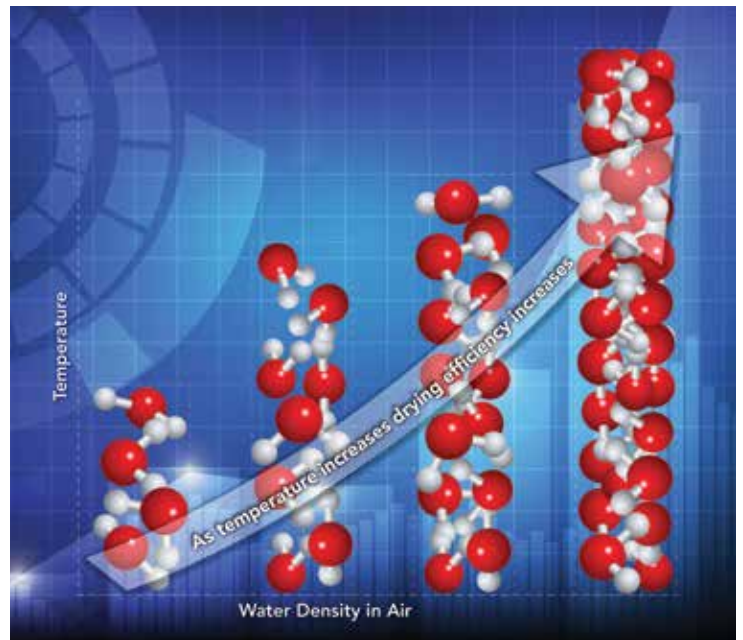
ADDITIONAL INFORMATION

Equipment includes an oil-free (high volume) compressor, absorbent dryer, accumulator, specialty low-profile adaptors, hoses and piping, and three-phase separator.

Temporary tie-downs and jumpers safely direct air and water through the system to the exit point. At the exit point, the three-phase separator safely dissipates the energy and allows air, water, and remaining debris to separate. Water drains out for recycling, leaving the debris in the skid for inspection. ample ports are used to take samples from the stream to check for moisture before the exit.

Dryness is verified by a dewpoint meter at local points in the system and at the combined exit point.

Choosing ICCI Nautilus Ultra Dry service is your best assurance of efficient, effective, on-schedule, precommissioning system drying. Contact us today for more information and to schedule a successful project.



Caption goes here!



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Precommissioning Cleaning Done Right