



ICCI E⁴ Pre-commissioning Cleaning Services:
EXPERT. EXPERIENCED. EFFICIENT. EFFECTIVE.

AIR+ BLOWSSM AIR CLEANING



GO BEYOND ORDINARY AIR-BLOWING: QUICKLY AND EFFECTIVELY REMOVE NON-ADHERED CONSTRUCTION DEBRIS FROM MOISTURE-SENSITIVE SYSTEMS.

Results- and cost-optimized project design by experienced engineers. A fleet of special-purpose equipment. Highly integrated, proven systems. These advantages are the “Plus” in ICCI Air+ Blows service. They combine to dramatically improve ordinary air-blowing methods.

Air+ Blows service is another example of ICCI’s expertise in specialized cleaning of systems with restrictions on processes such as moisture-sensitive systems, where “off-the-shelf” air blowing falls short.

Proven ICCI Air+ Blows service consistently exceeds stringent cleaning standards for removing non-adhered, pipe-installation debris such as rock, dust, welding rods, bolts, and tools. Superior results can be achieved in only a few shifts.

Because it uses dry, oil-free air only, the service is ideal not only for systems sensitive to moisture, but also for systems with weight restrictions on pipe-support structures. Air+ Blows service is faster than conventional flushing services that require high-horsepower, fluid-pumping equipment.

APPLICATIONS

- Ideal for moisture-sensitive systems such as process gas, fuel gas, low-temperature processes, LNG, ethane, and methane crackers.
- Lines up to 48-in. diameter.
- Piping with a strict requirement to be cleaned with traditional air blows.
- Systems that cannot be filled with water because of weight restrictions on pipe supports.

ADVANTAGES

Cleans systems efficiently, in as little as a few shifts.

Results are achieved faster than alternative methods. Piping is ready faster for plant operation.

Safely contains and separates effluent water, air, debris.

ICCI's accumulator and three-phase separator safely control air through the process system being cleaned 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.



Three-phase separator

Lightweight, three-phase separator. The core cleaning equipment can be moved quickly and easily, using a pallet jack or small forklift. Some system designs require many exit points; in these cases, our fleet of three phase separators makes the work more efficient and safer.

Does not require high-horsepower fluid pumping to clean effectively. Compared to an equivalent fluid-pumping spread, capital cost of equipment is lower, fuel consumption is lower, rig up and down between systems is faster, and no water is used.

Uses dry, oil-free air only—no water. Oil contamination is not introduced into the system, which could have significant issues for many systems being cleaned. Air+Blows service is ideal for systems sensitive to moisture.

Easily combined with Nautilus Hydro PigSM. In specific applications, Air + blows can be quickly adapted to ICCI's Nautilus Hydro Pig service for quick and efficient results, with minimal schedule impact.

Verified cleanliness. Push rod cameras and sample ports verify system cleanliness. You can confidently proceed to the operational phase knowing that lines are cleaned completely and all loose construction debris has been removed.

ADDITIONAL INFORMATION

Air+ blows service can be deployed in several ways:

Decompression: In a standard decompression blow, the piping to be cleaned is pressurized with an air compressor and optional dryer to the required predetermined pressure. Air is released using a quick-opening valve from one end of the piping. Rapid depressurization of the piping blows any loose debris out of the system and into a three-phase separator.

Accumulator Decompression: Air is compressed in the accumulator only and then rapidly released via quick-opening valve from the accumulator. Air propelled through the system removes all loose debris. This is an advantage if the optimal exit point is not accessible or if you do not wish to pressurize large parts of the system at that time.

Continuous: To perform a continuous air blow, several air compressors with optional dryers are connected to one end of the system. Flow from the compressors is slowly increased, and the air velocity in the pipe is brought up to a maximum pre-determined value. This method is practical and effective for cleaning small-diameter lines.

Choosing Air+Blows cleaning service from ICCI is your best assurance of an efficient, effective, on-schedule, air-blow project in systems where water cannot be used for cleaning. Contact us today for more information, and to schedule your on-time, on-budget cleaning project.



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Pre-commissioning Cleaning Done Right