

# Broiler CAS System

## Controlled Atmosphere Stunning

### Eliminate Handling of Active Birds

Praxair's CAS system for broilers has been developed to reduce the amount of damage that occurs during traditional harvest processes. This economical and practical approach to controlled atmosphere stunning for the chicken industry uses the existing cages and infrastructure. This proprietary system utilizes a multi-stage, carbon dioxide atmosphere process to desensitize and immobilize active birds while they are still in the cage. The Praxair stunning system is placed prior to the tipper and utilizes the existing conveyer system. This crucial step virtually eliminates the handling of active birds resulting in reduced damage to the birds often seen in the other processes.

### Better Process, Better Product

By eliminating the flapping and agitated state of active birds, there is less bruising following the CAS process and cage tipping. The quality of your product has the potential to improve resulting in less trim and product loss. From the very start of your process, the benefits of the Praxair CAS in-cage system are evident when compared to active bird shackling or electric stunning options.

### Features of the Praxair® CAS Broiler System

- Multi-stage, automated, computer-controlled process stuns birds in cage
- Uses existing cages and infrastructure
- Low capital investment, quick payback
- Easily integrates into current process



- System received “no objection” designation from USDA
- Praxair is a leading authority in CO<sub>2</sub> technology

### Processor Benefits

- Significantly improves product quality for your operation
- Improves yield
- Birds remain unconscious until further processing steps greatly reducing bruising and wing damage
- Ability to revert to electrical stunning at any moment
- Virtually eliminates handling of active birds reducing shackle-line worker fatigue and improving job satisfaction
- Allows for improved shackling area lighting and housekeeping

### A Wealth of Experience and Support

When you choose Praxair, you're selecting more than the largest supplier of industrial gases in North

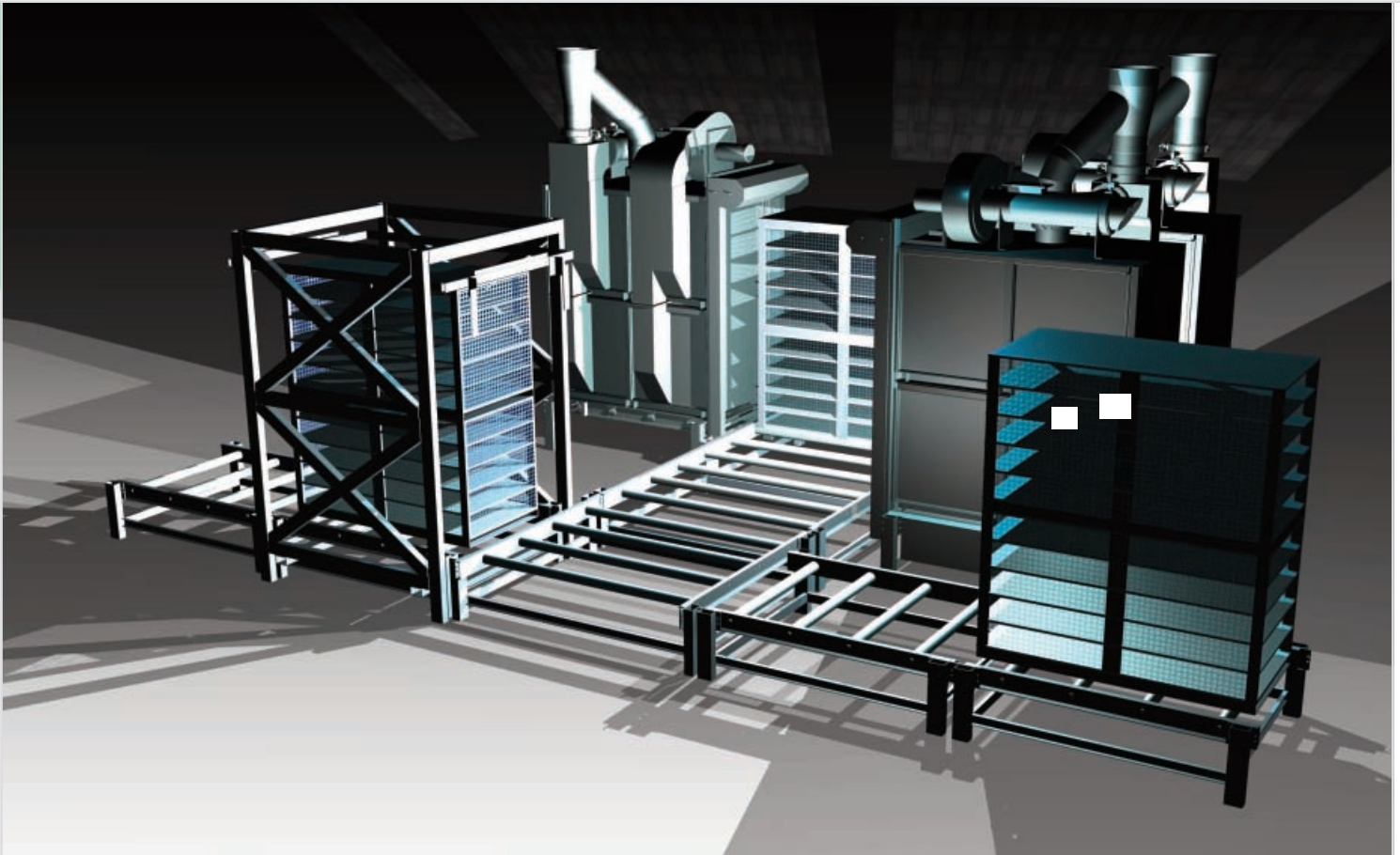
and South America. You're also selecting a support team that includes:

- Experienced food scientists and engineers
- A complete array of services, including on-site evaluation of your unit's operation
- Installation, lay-out and start-up support through Praxair's Total System Approach

Praxair provides everything you need to improve the quality and consistency of your product as well as your process.

### Contact Your Praxair Rep Today

For more information about Praxair's complete line of productivity improvements for the poultry processor, contact your Praxair representative or call us at 1-800-PRAXAIR. You can also visit our website at [www.praxair.com/food](http://www.praxair.com/food).



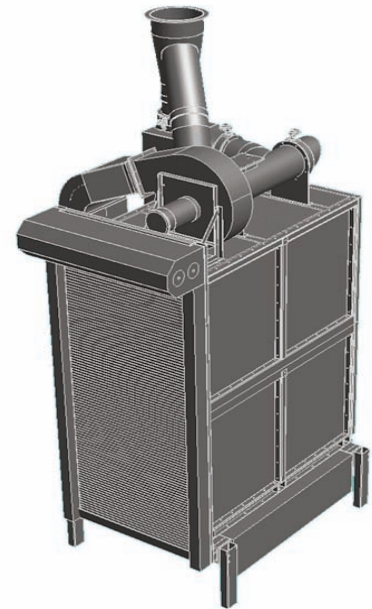
Double-Stacked Systems for Broiler Cages

### Poultry in Motion

The Praxair CAS system for boilers utilizes a two-line staging system that accommodates three cages on each line. The computer control system times the multi-stage process so that while one line is in the stunning phase with the automatic rolling doors closed, the other is readied to send cages with stunned birds to the tipper, return of the empty cages, and indexing of the next set of three cages to enter the stunning cycle. This system supplies a continuous flow of stunned birds to keep the shackle line full.

### The Experts Weigh In

After watching the Praxair CAS system for boilers in operation, Temple Grandin, Ph. D. with the Colorado State University Department of Animal Sciences had this to say. "When CAS stunning is evaluated, the whole system must be taken into account. The improvement in handling and the elimination of dumping and shackling live birds greatly reduces stress", she said in a written statement. "It is my opinion that the stress of CO<sub>2</sub> inhalation would be much less than the stress of live shackling and dumping. I would like to see the poultry industry adopt this system."



Double Stacked Cage Orientation



© Copyright 2012 Praxair Technology, Inc.  
All rights reserved.

Praxair, ColdFront and the Flowing Airstream design and Making our planet more productive, are trademarks or registered trademarks of Praxair Technology, Inc. in the United States and/or other countries. Other trademarks used herein are the registered trademarks of their respective owners.

The information contained herein is offered for use by technically qualified personnel at their discretion and risk without warranty of any kind.

08-12

P-10158-B

Praxair, Inc.  
39 Old Ridgebury Road  
Danbury, CT 06810-5113  
USA

www.praxair.com  
info@praxair.com

Telephone:  
1-877-PRAXAIR (1-877-772-9247)

Fax:  
1-800-772-9985  
(716) 8792040