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Industrial gases contribute immeasurably to the quality and consumer enjoyment of today's food supply. Gases and liquids play a role in carbonation, hydrogenation, flash-freezing, and fish farming. AMCS ULTRA Series® plants give food producers and industrial gas suppliers the on-site capability to generate the gases and liquids this industry needs in the quantities they require and of a quality that adheres to all FDA specifications and regulations.

Applications:

- Aquaculture
- Food chilling
- Food freezing
- Inerting/purging

Gas and Liquid:

- Nitrogen
- Oxygen
- Carbon dioxide

Application Examples:

- Nitrogen, specific to Inerting and Purging in the Food and Beverage facilities, is used to:
  - ensure fire safety and pest control in corn and powdered food silos
  - preserve powdered or fatty food during the filling, packing and storing process
  - protect liquid food from oxidation during storing and filling
  - ensure controlled ripening of stored food
  - stabilize the internal pressure of thin-walled beverage cans
- Nitrogen, specific to Cooling, Preserving and Deep Freezing in the Food facilities, is used for:
  - Cryogenic plants in cold stores for emergency cooling
  - Refrigerated feed and mills for cryogenic grinding of spices
  - Flash freezing of food such as fish, meat or bakery products
    - Cooling food during
    - Mixing
    - Chopping
    - Tumbling (coating of meats)
- Oxygen, specific to dissolution in water by replacing air in the aquaculture arena is used to:
  - Enhance dissolution in water for fish farms
- Carbon Dioxide, is used for:
  - carbonation of soft drinks, wine and beer products

To learn more about AMCS ULTRA-N™ Series Nitrogen Plants click here.

To learn more about AMCS ULTRA-O™ Series Oxygen Plants click here.

To learn more about AMCS ULTRA Series® Plants click here.