

Meeting ISBT beverage CO₂ specifications for a major beverage producer

THE OPPORTUNITY

One of the world's largest beverage manufacturers looked to update their gas purity verification system. With the challenging impurity monitoring requirements set forth by ISBT, older technologies like Premier Guard and CBAS needed the next generation of Beverage CO₂ monitoring. These new systems had to be rugged, reliable, easy-to-use, easy to maintain while at the same time be able to meet stringent ppb level measurement requirements.

PARAMETERS		RATIONALE ¹
Purity	99.9% v/v min.	Process
Moisture	20 ppm v/v max.	Process
Acidity	To pass test	Regulatory
Oxygen	30 ppm v/v max.	Sensory
Nitrogen compounds		
Ammonia	2.5 ppm v/v max.	Process
Nitric oxide/nitrogen dioxide	2.5 ppm v/v max.	Sensory
Non-volatile organic residue	5 ppm w/w max.	Sensory
Phosphine	To pass test (0.3 ppm v/v max)	Regulatory
Total volatile	50 ppm v/v max. of which 200 ppm v/v	Sensory
Hydrocarbons (as methane)	max. of non-methane hydrocarbons	
Acetaldehyde	0.2 ppm v/v max.	Sensory
Aromatic hydrocarbon sulfide	0.020 ppm v/v max.	Process
Total sulfur (as S)	0.1 ppm v/v max.	Sensory
Cabonyl sulfide	0.1 ppm v/v max.	Sensory
Hydrogen sulfide	0.1 ppm v/v max.	Sensory
Sulfur dioxide	1 ppm v/v max.	Sensory
Appearance in water	No color or turbidity	Sensory
Oder	Odorless	Sensory
Taste and odor	No foreign taste or color in water	Sensory

OUR SOLUTIONS

After 5 years of development, that included 2 years of field trials and 1 year of in-service validation,
AirBreather Systems™ was born. A robust, economical, maintenance friendly system, incorporating state-of-the-art technology and proprietary software to provide fast, accurate, readily accessible CO₂ purity verification included:

CocaCola: Approval Reference Number: NA-KO-102

AirBreather Systems™

State-of-the-Art Continuous Gas Analysis



YOUR BENEFITS

- Exceeds ISBT Standards
- Fastest Response Time (4 minutes)
- Least amount of precious sample gas required
- No carrier gases required other than air
- No Span Calibration Gases required / internal validation
- Secure Certificate of Analysis Module COA™
- Truck Filling Option
- Automated Fill Panels speed up distribution time
- Can be used for Re-cycled or Alternative CO₂ sources
- Expandable for raw gas
- Low cost of ownership
- Simple design makes it easy to service

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