CB50C Counter Pressure Integrated Canning Line FAQ

Counter Pressure Technology

Q: What is the difference between counter-pressure and open air filling technology?
A: Counter pressure technology allows you to fill highly carbonated beverages (in excess of 2.8). Isobarometric filling technology means the can is at the same pressure as the product so as to maintain carbonation solubility. Adjustable fill parameters enable management of breakout.

Q: What are the limitations for carbonation level?
A: With the CB50C counter pressure machine, you can fill everything from still products all the way up to 5 volumes of CO2. This machine is capable of filling nitrogenated products, in addition to carbonated beverages.

Q: What is the maximum temperature at which you can fill when using this machine?
A: Carbonation levels are a direct result of the relationship between temperature and pressure. In counter pressure filling, higher pressure allows for higher temperatures, enabling more flexibility in filling. The CB50C machine cannot run products above 120 °F (50 °C) continuous (hot fill).

Q: How do Dissolved Oxygen (DO) values compare to your open air filler?
A: Oxygen pickup is reduced because you are filling into a purged environment within the can. The easily-adjustable machine parameters (e.g., purge length, number of purge cycles, etc.) allow for better management of oxygen pickup.

Q: Can you run nitrogen with this machine?
A: Yes. The CB50C filling system is widget can-ready and liquid dosing is optional.

Product Flexibility and Changeover

Q: Can non-carbonated products also be run on this filler? Are there any changes required to switch between carbonated and non-carbonated?
A: Yes, both still and carbonated products can be filled with this machine. You will need to change machine parameters based on the product you are filling; these are easily modified through the HMI

Q: Are there any products you can't run on this machine?
A: Yes - The CB50C machine cannot run products above 120 °F (50 °C) continuous (hot fill) or products with particulates above 100 µm (0.003 in).

Q: How easy is the changeover from the 202 to 200 can end diameter?
A: There is no change to the fill valve required; a complete lid change is required on the seamer.

Competitive Differentiation

Q: What's the difference between your filling technology and the filling technology of your competitors?
A: The PSA CB50C canning line uses true isobarometric filling technology, with fill tank above fill heads, allowing product to be gravity fed, as opposed to pumped/forced upward. This means true counter pressure filling with the precision of a flowmeter.

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