



Badger Meter Europa

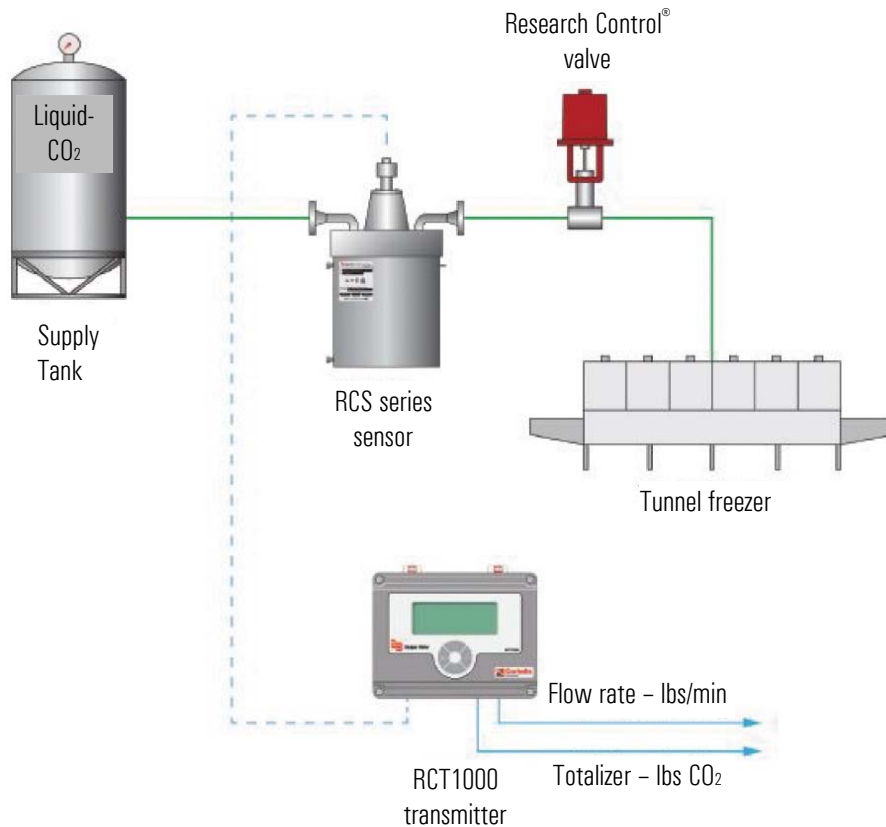
Application brief

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Flash Freezing Food Liquid CO2 Measurement

In the food processing industry, the need to freeze food quickly and efficiently requires accurate measurement of CO₂. The goal is to use the exact amount of CO₂ to ensure uniform freezing without excess waste to keep cost down. The RCT1000 transmitters can supply the actual flow rate and a totalized flow rate for each production run. By measuring the liquid flow in pounds and knowing how many pounds of food traveled through the freezer, an efficiency calculation can be determined.



$$\text{Freezing efficiency} = \frac{(\text{Total pounds liquid CO}_2 \text{ per shift})}{(\text{Total pounds food frozen per shift})} = \text{lbs CO}_2 \text{ per lb of food}$$