



Process & Packaging, Inc.

Design - Manufacture - Installation of Process & Packaging Systems

Flash & Ultra Flash Pasteurization Facts

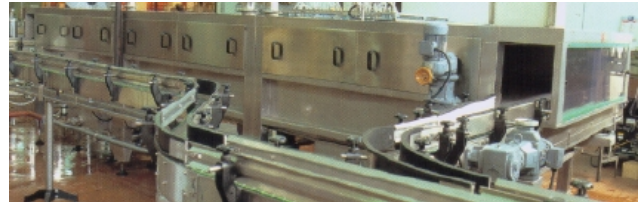
Some important facts about IDD's Flash Pasteurization vs. Tunnel Pasteurization

FLASH PASTEURIZATION



- Low capital cost.
- Skid mounted.
- Small footprint
- Low cost installation.
- Low energy usage – 92% plus efficiency.
- Low maintenance.
- Even pasteurization of product.
- Use of glass, PET bottles, cans and cartons possible.
- Carbonated or non-carbonated products.
- Long product shelf life (in excess of 12 months).
- PU control within ± 0.5 at all times when processing product.
- Modem system support.
- Fully automated control interface via PLC, touch screen control and trending software

TUNNEL PASTEURIZATION



- High capital cost
- Large foot print.
- High energy usage - 65% efficiency.
- High maintenance.
- High effluent discharge.
- High bio-film build-up without chemical treatment.
- Over pasteurization of $\cong 65\%$ of the product volume
- Difficult to control PU input when the system is in a stop and start mode.
- Flavor change - Over pasteurization.

FLASH PASTEURIZATION FACTS

Flash Pasteurization - A proven method of heat pasteurizing beverages prior to filling into containers. The product is handled in a controlled continuous flow and subjected to a temperature normally in the range of 71.5°C (160°F) to 90°C (194°F), for a time period of 15 to 45 seconds.

The Steady State Philosophy - Where flow, pressure and temperature stay constant at all times during product pasteurization. Pasteurized water is re-circulated within the system, when the Sterile Product Tank (SPT) fills, thus maintaining a constant controlled operating state.

Efficiency ratio of flash vs tunnel pasteurization is 24:1 respectively - Taken from an unpublished 4 year study report by Mr. Paul Kidger of Allied Breweries, Ltd. U.K.

IDD WARRANTY & CHALLENGE
Guaranteed no difference in taste!
(Ask for details)

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