

# **IDD** ***FLASH PASTEURIZATION***

## **Some important facts about IDD's Flash Pasteurization versus Tunnel 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Taken from an unpublished 4 year study report by Mr.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.

### **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 lightweight glass and PET bottles possible.
- Carbonated or non-carbonated products.
- Long product shelf life (in excess of 12 months).
- PU control within  $\pm 0.5$  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.



### **IDD WARRANTY & CHALLENGE**

**Any brewer who can differentiate a common batch of primary filtered, low O<sub>2</sub> beer from flash pasteurized beer processed on an IDD system during a triangular blind taste test will be given the IDD flash pasteurization system.**