

Flash Liquid Processing

Introduction

Flash liquid processing for:

✓ Pasteurization

√Sterilization

Applicable to pumpable liquids and products.

Advantages of Flash Processing

- √Thermal processing enhancement
- **✓ Product properties preservation**
- **✓ Better organoleptic properties**
- √ "Fresh" products

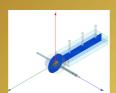
LIQUID PROCESSING	LABORATORY	INDUSTRIAL
Capacity	20-70 l/h	200-2000 l/h
Applied power	1-3 kW	10-100 kW
Temperature increase	10-40 °C	10-40 °C
Processing time	90 mseconds (or more)	180 mseconds (or more)
Temperature Measurement	At processing point	Outside the applicator
Temperature Controlled	Yes	Yes

LABORATORY DESIGN

Fast liquid processing leads to a "cold"

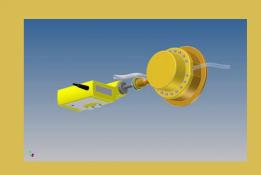
Specially designed to:

- **√ Pumping products**
- √Very fast heating process
- √"In-Process" temperature measuring



Modeling process

- **√** Optimal results
- $\sqrt{\text{Temperature thermocouple position}}$



INDUSTRIAL DESIGN

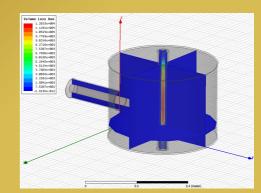
Fast liquid processing leads to a "cold"

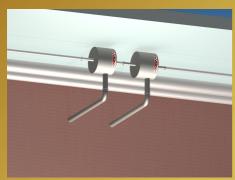
- √ Pasteurization
- √Sterilization

Characteristics:

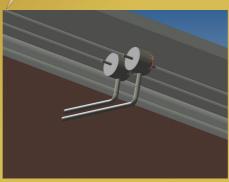
- **√ Industrial scaling**
- √Easy to install
- √"In-Process" temperature measuring
- √Up to 100 kW per cavity







INSTALLATION TO INCREASE TEMPERATURE



INSTALLATION TO INCREASE PRODUCTION

