



CSI

Process Engineering *Memo*

PD pumps are available from Alfa Laval and Waukesha, among others.

- **Primary heating / Heat exchange**

Raw product is pumped through heat exchange equipment where hot water or steam is used as the heating media to raise the product to the appropriate temperature.

Commonly, plate and frame heat exchangers are used here. CSI has access to these through Alfa Laval, APV, and others.

- **Homogenizer**

Using high pressure, mechanical means, or a combination of the two, product is pressed through small holes. This process forces fats to break apart. Modern homogenization techniques can reduce the size of fat molecules by a factor of nearly 500.

CSI would like more opportunities to sell homogenizers. We have options like GEA Niro, APV, and Gaulin.

- **Hold tube**

The product, having been raised to the appropriate temperature, is held for the appropriate time (See Chart above). The velocity through the hold tube is determined by a number of factors including: timing pump, diameter and length of hold tube, and surface friction.

CSI is an industry leader in the design and manufacture of hold tubes. We can engineer, design, and build a hold tube to accommodate nearly any application.

- **DRT / Indicating thermometer**

The DRT, or digital reference thermometer, is positioned after the hold tube. Product passes the sensing bulbs of the thermometer which verifies whether or not the product has been held at the appropriate temperature through the hold tube.

CSI primarily uses Anderson Instruments' products like the FD "DART" or other dual element temperature probes. Many options exist, but verify they are PMO compliant.

- **Flow diversion devices**

A flow diversion setup uses two normally closed divert seat valves, like Alfa Laval series 762. When appropriate conditions are not met, both valves remain in the closed position which sends raw product back to the balance tank. If the temperature of the product

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