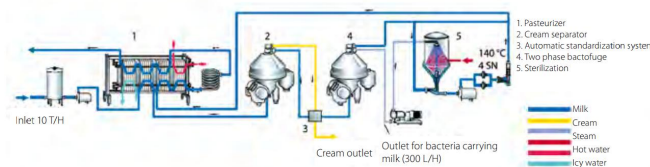


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## Chemical Industry Plate Heat Exchanger Selection For Milk

**Plate heat exchangers are equipment that will be used in pasteurization.** Pasteurization is a heat treatment which reduces the presence of potentially harmful bacteria in certain foods to make them safe to eat and/or slow down spoilage and extend shelf life. Pasteurization differs from sterilization in that it only aims to reduce the number of bacterial pathogens to a level where they are very unlikely to cause disease before the specified use-by-date and potentially extend the shelf life of the product in question.

A wide range of options exist when it comes to selecting the best heat exchange equipment, whether for pasteurizing, cooling or even heating to air transport and processing. The texture and viscosity of dairy products is not only an important quality parameter, but it also influences how they behave during production and processing. In turn **this influences the choice of heat exchange equipment.**



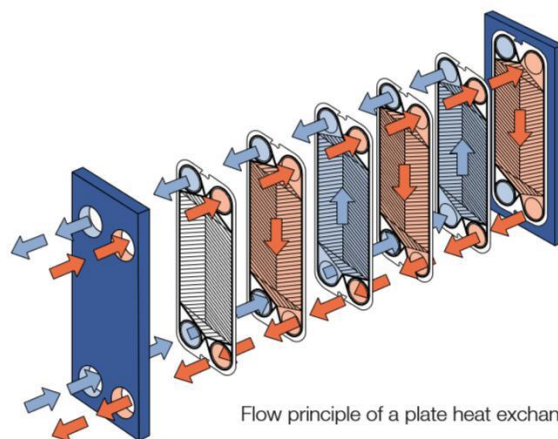
Professional plate heat exchanger manufacturer We can not only provide you with PHE, but also we can design the appropriate plan for heating exchange according to your need. **We have 15- year experience of designing in this field and solve various problems for you.** We have a wealth of HVAC, refrigeration, metal steel, marine engineering, paper, power, chemical, marine engineering, food and beverage experience. The PHE has a major advantage over a conventional heat exchanger in that the fluids are exposed to a much larger surface area because the fluids are spread out over the plates.

### Our Advantages:

1. Manufacturer and Distributer, we can supply different brands and series plate and gasket, such as Alfa-Lava, APV, GEA, Tranter, SONDEX etc.
2. As manufacturer, we can supply the best quality replace parts for above brands to help you save more cost.
3. Over 15 years' experience in the energy field, we also can provided technical service such as technical consultation, equipment upgrade, capacity expansion scheme, maintenance and cleaning of the equipment.
4. High quality with competitive price, global fast delivery.
5. Our products are superior quality and environment friendly.
6. Prompt response to inquiries and orders.
7. Inventory for standard products.

### Working principles

Heat exchanger is an equipment which reduces the temperature of a medium by transferring temperature of that medium to another, when both the mediums are separated by a solid membrane or wall like structure. For efficient operation, the surface area of the wall which separates the two mediums is



Flow principle of a plate heat exchanger

maximized, simultaneously minimizing the flow resistance of the fluid. Channels are formed between the plates and corner ports are arranged so that the two media flow through alternate channels. The heat is transferred through the thin plate between the channels, and complete counter current flow is created for highest possible efficiency. No intermixing of the media or leakage to the surroundings will take place as gaskets around the edges of the plates seal the unit. The corrugation of the plates provides a suitable passage between the plates, support of each plate against the adjacent one and a strong turbulence resulting in maximum heat transfer efficiency.

### Standard Materials

For Frame: Carbon steel, stainless steel,

For Plate: Stainless steel, titanium Plates Stainless steel alloy 304, Stainless steel alloy 316 Stainless steel alloy C276 or Titanium or SMO

For Gaskets: NBR, EPDM, Viton A, Viton G CR

### Why choose Gasketed Plate Heat Exchanger?

- \* High heat transfer efficiency
- \* Low pressure loss
- \* Compact structure
- \* Easy assembly & disassembly
- \* Sensitive temperature control
- \* High operating flexibility
- \* Long life-time

### Application

Food industry: Milk pasteurization Milk and beverage pasteurization, Wine tempering, Bottled water treatment, CIP (Cleaning-in-Place) heating, Reverse osmosis water.

Marine application: Central cooling of the main or auxiliary engines or turbines, Lubrication oil cooling, Recooling of circulated water for cooling cylinders, pistons, injection nozzles, Cooling of Baoder oil, compressor oil and other lubricants, Preheating of lubrication oil and heavy fuel oil, Preheating of seawater for fresh water production, Heat recovery, Heat exchange to air-condition the passengers' cabins and freight spaces

Others: Turbine oil cooler, Chemical industry, district heating, district cooling, swimming pool heating, solar heating.



